The gentleman's dictionary. In three parts, viz. I. The art of riding the great horse. II. The military art. III. The art of navigation / Each part done alphabetically, from the sixteenth edition of the original French. Published by the Sieur Guillet. With large additions, alterations and improvements, adapted to the customs and actions of the English.

#### **Contributors**

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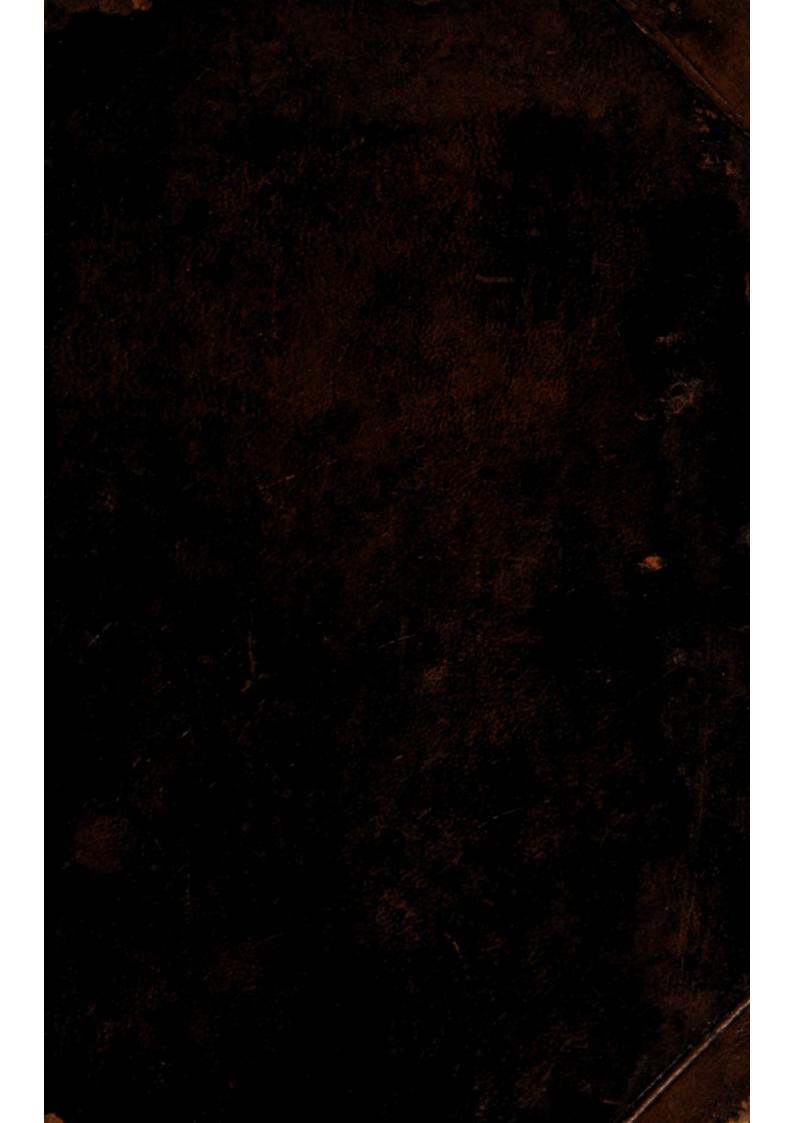
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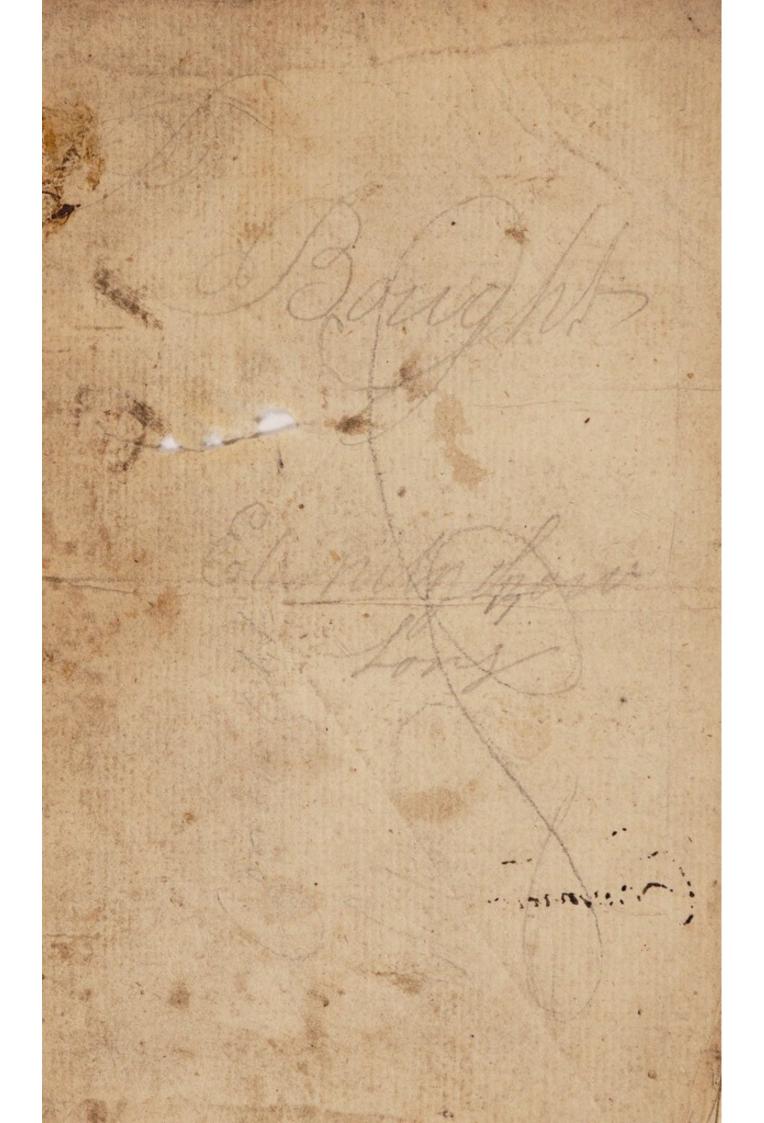
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GUILLET



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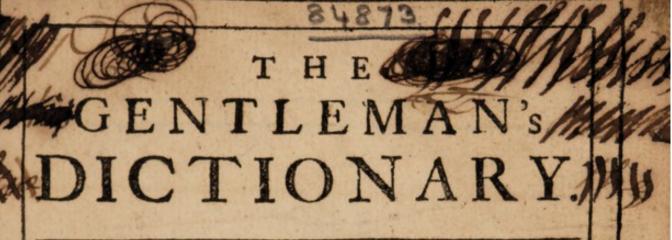




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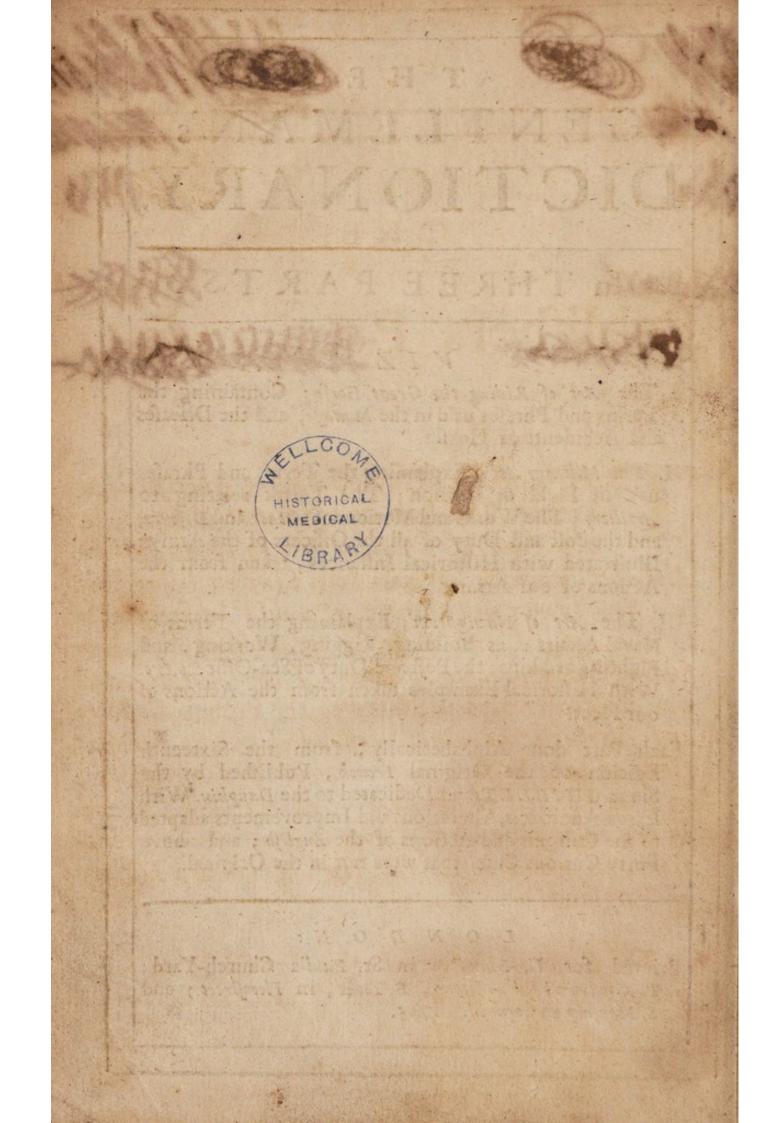
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#### LONDON:

Printed for H. Bonwicke in St. Paul's Church-Yard; T. Goodwin, M. Wotton, B. Tooke, in Fleetstreet; and S. Manship in Cornhill. 1705.



#### THE

## Publishers PREFACE.

HE Sieur Guillet having published in French, Les Arts de l'Homme d' Epee, in the Form of a Dictionary, in Three distinct Alphabets; which has now born Sixteen Impressions in a few Tears; we thought it would be acceptable to the Publick, to make it speak English. But sinding 'twas capable of many Improvements, and was altogether accommodated to the French Customs and Actions; we chose, instead of a bare Translation, to take in such Improvements and Corrections, as were handed to us by Persons thoroughly vers'd in the respective Arts; and to make such Alterations, as would better suit the Customs and History of England.

The General Design of this Work, is to serve not only those who are bred to the Sword, but all (a 3) that

### The Publishers PREFACE.

that pretend to a Gentlemanlike Education; and at the same time to gratify the Curiosity of others, who will, doubtless, be fond of knowing the true Import of such Terms and Phrases, as are daily met with in Common Discourse, and are usually tack'd to the Busiest Actions of Life; Now that England is retriev'd from Luxury and Softness, and once more fam'd for Manly Exercises and Actions.

The Alphabet which leads the Van in this Performance, explains all that relates either to a Horse, or a Horseman. It includes not only the Definitions of Things and Phrases used in the Manage, or Academies for Riding; but likewise the Terms relating to the Condition, Use, Feeding, and Treatment of a Horse; to the Diseases of Horses, and the usual Remedies, with the manner of giving 'em; and, in fine, to all the Appurtenances of that Useful Animal. In compiling this Part, the Sieur Guillet made use of the Assistance. of Messieurs de Bournonville, and du Plessis, (both Riding-Masters to the Dauphin of France) and above all, of Mr. Solleysel, the Excellent Author of the Compleat Horseman; to which our Reader is frequently referr'd. In translating this Part, we have taken care to do Justice to the French, and at the same time to bring it as near to our Jockey Terms, as the Nature of the Thing would allow. to the Sward, th

## The Publisher's PREFACE.

The Second Part ranges the Military Terms in an Alphabetical Order; most of which are Illu-Itrated with particular Phrases, pointing to the Famous Instances of English Bravery and Conduct; especially those which late Tears have produced. The Sieur Guillet's Illustrations were all taken from the Actions of the French, which we chose to Exchange for English: And at the Same time we thought it not improper to give new Definitions of many Terms, pursuant to the present Practice of our own Armies and Engineers; as well as to add a great many useful Things that were either invented out of France, or brought to Light since the Sieur Guillet writ. To render this Part yet more In-Structive, we have Inserted Accurate Cuts of the Engines, Instruments, Contrivances, &c. us'd in War; and have prefix'd to it a General Draught of all the Parts of Fortification, and the Method of Approaches in Sieges; which we take to be the distinctest and justest that has yet appear'd. In fine, the Reader will find this Part altogether new moulded; which is owing to the Care and Capacity of a Gentleman, who is perfectly well vers'd in all the Arts retaining to the Military Profession, and was an Eye-Witness of all the Actions of our Army, in this and the last War.

As for the Third and Last Part; relating to Navigation, we have Calculated the Sea-Terms and

## The Publisher's PREFACE.

and Phrases, the Parts and Materials of Ships, and all the other Terms of Art, according to the English Practice of Navigation, and ways of Speaking: And have thrown in Historical Instances of the English Naval Emplaite: which all the World knows to surpass those of other Nations, both in Glory and Number. To this Part we have presix'd an exact Draught of a Ship compleatly Rigg'd, with Explicatory References to all its Parts, Ropes, &c. And in sine, we reckon we may, without Vanity, assimply aftern, That in this, as well as the Second Part, we have far out-done our Original.

THE

James Taget

# Gentleman's Dictionary.

## PART 1. The Manage: Or the Art of Riding.

In the ensuing Alphabet the Terms are ranged in an Alphabetical Order: And in regard the manner of applying is not less necessary than their Explication, you have particular Phrases tack'd to the most essential Words; and those so contriv'd, that they not only shew in what manner these Terms should be employed in a regular way of speaking, but likewise lay open the Grounds of the Matter in hand.

The Definition of the Art of Riding.

The Art of Riding teaches at once how to form both the Horseman and the Horse: The former it teaches a good Seat upon Horseback, a free, easy, disengaged Posture, and the means of making his Hand accord with his Heels: The Horse it instructs, as much as is possible, how to carry well, to take his Aids gentle and fine, to fear the Corrections that can fix him to a Walk, a Trot, and a Gallop, and then to manage or work upon all sorts of Airs; that thus broken and managed, he may be of Use in the Dangers of War, in the Necessities of Life, and sometimes in the Pomp and Splendor of Festivals and Publick Shews.

#### ABA

### ABA

BATE; A Horie is faid to abate or take down (Rabattre) his Curvets, when working upon Curvets he puts his two Hind-legs to the ground both at once, and observes the

fame exactness in all the times. Your Horse abates his Curvets very well; for in regard he harps or grapples with his two Hams, and in working keeps his Legs very low, he abates his Curvets with a good Grace;

that is, his two hinder Feet touch the ground together.

A C T I O N of the Mouth is the Agitation of the Tongue and the Mandible of a Horse, that by champing upon the Bridle, keeps his Mouth fresh. You see by this white ropy Foam, that this Horse has the Astion of the Mouth; which is a sign of Vigour, Mettle, and Health.

ACULER; a French Word us'd in the Academies, importing, that a Horse in working upon Volts in the Manage, do's not go far enough forwards at every Time or Motion, fo that his Shoulders embrace or take in too little ground, and his Croupe comes too near to the Center of the Volt. Horse has acule, because the Horseman did not turn his hand, and put him on with the Calf of his inner Leg. Horses have a natural Inclination to this Fault, in making Demivolts. When the Italians work a Horie upon the Demivolts, call'd Repolons, they affect to make 'em aculer, or cut ihort. See Entabler, and Repolon.

A G E of a Horse, is the Space of Time elapsed since he was foal'd: Which deserves a very particular regard, upon the account that a Horse has the advantage of being capable to shew and set forth the different Progress of his first Years; partly by the Number of his Teeth, according as he casts or

shoots'em forth one after another, or as these change and give place to fresh ones; partly by black Specks or Marks placed by Nature upon some of 'em; and partly by some other Prefumptions of less Certainty, fuch as those taken from the Knots or Joynts of the Tail. The Youngest of these Horses can't be above Two Years and a Half old; for he is now but Casting his Nippers. The other that's a Casting his Middling Teeth, is between Three and. a Half and Four Years. And the third, that now puts forth his Tushes, and whose Corner-Teeth are upon the point of appearing, muit be about Four Years old. But as for that Old English Horse, his Age is counterfeited; he has had Tricks play'd with his Teeth: You fee by his Corner-Teeth that are fo Long, and Clear of Flesh, that he's certainly countermark'd; And tho' it would feem as if he had not yet ras'd, and were not yet Seven Years old, he begins to feel. See Teeth, Shell-tooth'd, Tail, Raze, and Secl.

AID; to Aid, Affift, or Succour a Horse, is to sustain and help him to work true, and mark his Times or Motions with a just Exactness. Assist your Horse with the Calves of your Legs; help him with a nice tender Heel; aid him with your Tongue. 'Tis not enough to aid this Horse with

the-

the Rod, he must have harsher Aids.

Aids are the Helps or Affi-Hance that the Horseman gives from the gentle and moderate Effects of the Bridle, the Spur, the Cavefon, the Poinfon, the Rod, the Action of the Legs, the Motion of the Thighs, and the Sound of the Tongue. We give these Aids to prevent the Correction or Chastisement that is lometimes necessary in Breaking and Managing a Horse. You'll never ride well, unless you be very attentive and active without precipitancy, in not losing or missing your Times, and in giving the Aids feafonably: For without that, you'll accustom your Horse to dole upon it. If this Horse does not obey the Aids of the Calves of his Legs, help him with the Spur, and give him a prick or two. This Sorrel-Horse has his Aids very nice; that is, he takes them with a great deal of Facility and Vigor. This Gentleman gives his Aids very fine; that is, he animates and rouzes up the Florfe feafonably, and helps him at just Turns, in order to make him mark his Times or Motions justly. This Barb knows the Aids; he obeys or answers the Aids; he takes them fine. You do not give the Aids of the Cavefon with differetion; you make a Correction of 'em, which will baulk your Horfe. See Brouiller? 10 bloo 101113

Inner Aids, Outer Aids. See Infide, Enlarge, and Narrow.

A I R is a Cadence and Liberty of Motion accommodated to the natural Disposition of the Horse, which makes him work in the Manage, and rife with Obedience, Measure, and Justness of Time. Some Riding-Mafters take the word Air. in a strict Sense, as fignifying a Manage that's higher, flower, and more artful or defign'd than the terra a terra. But others give it a larger Signification, including under that fense aterra a terra; for if a Horse manages well in a terra a terra, they fay the Horseman has happily hit the Air of the Horfe. In general, the Walk, Trot, and Gallop, are not accounted Aims. And yet fome very good Riding-Matters would understand by Air the Motion of a Horse's Legs upon a Gallen. For instance, they'll fay fuch a braile has not the natural Air; that is, in galloping he bends his Forelegs too little. You should give or form an Air to your Horse, for he has no natural Air; and fince his Haunches are very good, he's capable of the Manage, if you do but learn him. an Air. All your Horfes have an Air naturally; that is, they have Motion enough with their Fore-legs to take a Cadence, if they're put to work at terra a terra. This Horse always takes his Lesion with his own Air. Fix or confirm that isorfe in A 2 the

the Air he has taken. This Sorrel takes the Air of the Curvets; but that presents himself with an Air for Caprioles. This Mare has no Inclination nor Disposition to these Airs. See

Pefate.

High Airs or High Manage, are the Motions of a Horse that rifes higher than terra a terra, and works at Curvets, Balotades, Croupades, and Caprioles. In regard that Horse has the Beginning or first Steps of rais'd Airs, and of himself affects a high Manage, you ought to use this his Disposition difcreetly, that he may not be dishearten'd or baulk'd; for your high Airs make a Horse angry when he's too much put to't; and you ought to have fuppl'd his Shoulders very well before you put him to leap. See Pefate, and Leaping.

A M B L E, is the Going or Pace of a Horse; the Motion of which is two Legs of a fide rais'd and fet down together, after which the two Legs of the other fide rife and come down in the same manner; each side observing an alternate Course. The first Pace of young Colts or Foals is the Amble; but they quit it as foon as they have ftrength enough to trot. You have done in your Breed what is commonly practifed in England; for to put your Horse upon an Amble, you have put Locks upon 'em, and Wisps of Hay round the Pasterns of their

hinder Legs: But at the same time you did not consider that there's no such thing as an Amble in the Manage, and that the Riding-Masters allow of nothing but Pace, Trot, and Gallop: And the reason they give for it, is, That they can put a Horse from a Trot to a Gallop without stopping him; but can't pass from an Amble to a Gallop without a stop, which loses time and interrupts the Justness and Cadence of the Manage.

Amble free; A Horse is said to amble free that goes a good Amble when led by the Halter

in one's hand.

Amble broken. See Aubin.

ANTICOR (or Avant-Coeur ) is a preternatural Swelling of a round Figure, almost as big as the half of one's fift, which being occasioned by a Sanguine and Bilious Humour, appears in a Horse's Breast, opposite to the Heart. Your Horse has got an Anticor that may kill him unless you bring it to Suppuration by good Remedies. But the Anticor that's upon my English Horse do's not trouble me at all; for the Swelling lessens upon the Suppuration, which is a good fign. See Grass.

ANVIL is a Mass of Iron, sometimes forged with a Hammer; the upper part of which is cover'd with Steel solder'd, in order to forge upon it either cold or hot; the soft and

pliable

pliable Iron, such as that of Spain and Turkey, being work'd in the former, and the harder Iron in the latter Method. Your forged Anvils are preferable to those that are cast; and the extremities both of the one and the other terminate in little rais'd Anvils, which serve for

rounding Horfe-Shoes.

APPUI or Stay upon the hand, is the reciprocal Sense between the Horfe's Mouth and the Bridle-hand; or the Sense of the Action of the Bridle in the Horseman's hand. The true and right Appui of the Hand is the nice Bearing up or Stay of the Bridle; so that the Horse aw'd by the Sensibility and Tenderness of the Parts of his Mouth, dare not rest too much upon the Bitt-mouth, nor chack or beat upon the hand to withstand it. Such a Horse has a dull deaf Appui; that is, he has a good Mouth, but his Tongue's fo thick that the Bitt can't work or bear upon the Barrs: For the Tongue being not fensible or tender, as the Bars, is benum'd or harden'd by the Bitt, and so the Appui is not good. The Bitt do's not press the Bars in the quick, by reason of the Grossness of the Tongue, or else of the Lips. Your Horse has a Rest or Stay that forces the hand; which thews that he has a bad This Horse has no Appui, no Rest upon the hand; that is, he dreads the Bitmouth; he's apprehensive of the hand; and he can't suffer the Bitt to press or bear tho' never so little upon the Parts of the Mouth; and thus it comes to pass that he do's not

eafily obey the Bridle.

A Horse who is taught a good Appui. If you mean to give that Horse a good Rest upon the Hand, it behoves you to gallop him, and put him often back: A Long-itretch Gallop is likewise very proper for the same end, for in galloping, he gives the Horseman an opportunity of bearing him upon the Hand. Such a Horse has too much Appui, he throws himself too much upon the Bitt. A Horse that has a Fine Stay or Rest upon the Hand, i. e. equal, firm and light, or one that obeys the Bridle. See Hand.

A Full Appui upon the Hand, is a Firm Stay, without resting very heavy, and without bearing upon the Hand. Horses for the Army ought to have a Full Appui upon the Hand.

A more than Full Rest or Appui upon the Hand, is said of a Horse that's stop'd with some force, but still so that he does not force the Hand. This Appui is good for such Riders as depend upon the Bridle instead of their Thighs.

ARCH'D. A Horse is faid to have Arch'd Legs, when his Knees are bended archwise. This Expression relates

A 3

Infirmity here lignified happens to such Horses as have their Legs spoil'd with travelling. The Horses call'd Brassicourts have likewise their Knees bended archwise, but this Deformity is natural to them.

ARM of a Horse. See

Fore-Thigh.

Arm himself when he presses down his Head as if he would Chock; and bends his Neck so as to rest the Branches of the Bridle upon his Counter, in order to disobey the Bitt-mouth, and guard his Bars and his Mouth, which are reliev'd by over bending the Neck. Since your Horse Arms himself, give him a Knee'd Branch, that will raise him, and make him carry his Head well. See to Carry low.

Arm with the Lips. A Horse is faid to Arm himself with the Lips, when he covers his Bars with his Lips, and makes the pressure of the Bitt too deaf and firm; this is commonly done by Thick-lip'd Horses: You must order your Bitt-maker to forge you a Bitt-Mouth with a Canon or Scratch-Mouth that's broader near the Bankets than at the place of its preflure or rest upon the Barrs; and this will hinder your Horse to Arm himself with his Lips. Sometimes we fay, the Lip arms the Barr, i. e. covers or icreens it. See Difarm.

Armand. See Drench.

ARRESTS are Mangy Humours upon the Sinews of the Hinder-legs of a Horse, between the Ham and the Pastern; they seldom appear upon the Shank-Sinew. Their Name is taken from their likeness to the Arrests or Small Bones of a Fish. See Rat-tail.

ARZEL, A Horse is said to be Arzel that has a White Mark upon the Far-foot behind. Your Superstitious Cavaliers persuade themselves that by an unavoidable Farality such Horses are unfortunate in Battels; and such is the strength of this Prejudice, that they do not care to use 'em.

ASSIST. See to Aid.

ATTAINT, is a Blow or Wound receiv'd by a Horse in his Hinder-feet, from another Horse that follows him too close: This Word is likewise us'd to fignifie a Blow that a Horse's Foot receives from the Fore or Hinder opposite Foot; or a Blow given by one of the Hinder-feet striking against the Cronet of the Fore-foot. Your Horse could not have given himself a Ruder Attaint, for I find with the Probe, that it penetrates between the Hoof and the Coffin-Bone; which gives reason to suspect that the Tendon is affected, and that the Attaint reaches to the Cronet.

Upper-Attaint, is a violent Blow given with the Toe of the Hind-feet, upon the Sinew of the Fore-legs. A U B- A UBIN, is a Broken Going, or Pace of a Horse, between an Amble and a Gallop,

which is not esteemed.

AVERTI: A French Word us'd in the manage, as applied to the Pace or Motion of a Horse; signifying a Motion that's injoin'd, regulated and requir'd in the Lessons. Pas Ecouté, and Pas d'Ecole (i.e. listening Paces, or School Paces) signifie the same thing.

#### B.

Horse. Such a Horse has Vigor in his Back; he goes upon his Fillets, he has good Loyns. A Horse that works in the Manage upon his Loins, is one that lowers his Hips and his Neck, and raises his Fillets. A Weak-back'd Horse is apt to stumble. Such a Horse defends himself with his Back, he leaps and plays with his Fillets, and doubles his Reins to incommode the Rider.

Back of a Horse. To Mount a Horse a dos (in French) is to Mount him Bare-back, or with-

out a Saddle.

BALOTADES, are the Leaps of a Horse between two Pillars, or upon a Straight Line, made with Justness of Time, with the Aids of the Hand, and the Calves of the Legs; and that in such a manner, that when his Fore-seet are in the

Air, he shews nothing but the Shooes of his Hinder-feet, without yerking out. Thus 'tis that the Air or Manage of Balotades differs from Caprioles, for a Horse that works at Caprioles, yerks or strikes out his Hinder-Legs with all his force, keeping them near and even. Balotades differ likewise from Groupades in this; that in the former the Horfe thews his Shooes, when he lifts or raises his Croup, but in Croupades he draws his Hinderfeet under him. Your Horse will take to Balotades, when you let him go upon Caprioles ; for when the greatFire andMettle of the Caprioles is past, Horles take to Balotades of themselves, and then to Croupades, unless a Poinson in a Hard Hand makes 'em yerk out, and continue the Air of Caprioles. See Yerk.

To make a Cross upon Bale-

tades. See Cross.

BALZANE. See White-

foot.

BANDS of a Saddle, are Two Pieces of Iron, Flat, and Three Fingers Broad, nail'd upon the Bows of the Saddle, one on each fide, contriv'd to hold the Bows in the Situation that makes the Form of the Saddle. To put a Bow in the Band, is to Nail down the Two Ends of each Band to each fide of the Bow. Befides these Two Great Bands, the Fore-bow has a Small one, call'd the Wither-Band, and a Crefcent to keep A 4 UP up the Wither-Arch. The Hinder-Bow has likewise a small Band to strengthen it.

BANQUET, is that small part of the Branch of a Bridle that's under the Eye, which being rounded like a Small Rod, gathers and joins the Extremities of the Bitt to the Branch, and that in such a manner, that the Banquet is not seen, but cover'd by the Cap, or that part of the Bitt that's next the Branch.

Banquet-Line, is an Imaginary Line, drawn by the Bittmakers along the Banquet, in forging a Bitt, and prolong'd upwards and downwards, to adjust the design'd Force or Weakness of the Branch, in order to make it stiff or easie; for the Branch will be hard and strong, if the Sevil-hole is on the outfide of the Banquet-line, with respect to the Neck; and the Branch will be weak and eafie, if the Sevil-hole is on the infide of the Line, taking the Center from the Neck. See Branch and Shoulder.

from Barbary: Such Horses are commonly of a Slender Light Size, and very Clean and Thin in the Legs. Your Spanish and English Horses are much better Bodied, and have larger Legs than the Barbs. All the Colts of our Breed, are come of a Barbary Stallion. We always chose

Barbs for our Stallions, because they are always Mettled, and have good Wind and Heels; and 'tis commonly faid, Barbs may die, but they never grow old: The contrary of which is observ'd in your Friezland large Dutch Horses (Roussins) for they grow foon old, and are long a dying, fo that they prove troublesome to their Masters. The Duke of Newcastle has well observ'd, that the Vigor and Mettle of Barbs never ceases but with their Life.

BARBLES are Knots of Superfluous Flesh that grow up in the Channels of a Horse's Mouth; that is, in the Interval that separates the Barrs, and lies under the Tongue.

BARDELLE, is a Saddle made in the Form of a Great Saddle, but only of Cloath stuff'd with Straw, and tied tight down with Packthread, without either Leather, Wood, or Iron: They are not us'd in France, but in Italy they trot their Colts with such Saddles, and those who ride them are call'd Carvalcadours, or Scozone.

BARNACLES; the Word commonly us'd for what the French call Mouraille, which fee.

To BAR a Vein, or Strike it, is an Operation perform'd by the Farrier upon the Veins of a Horse's Legs, and the other Parts of his Body, with

intent

intent to stop the Course, and lessen the Quantity of the Malignant Humours that prevail there. Your Horses have got Traverse-Mules or Kib'd-Heels, and Rat-Tails or Arrests in the Hinder-Legs, you must Barr a Vein. In order to Barr a Vein, the Farrier opens the Skin above it, and after disengaging it, and tying it both above and below, he strikes between the Two Li-

gatures.

BARS of a Horse's Mouth are the Ridge, or the highest Parts of that Place of the Gum that never bears any Teeth, and is situated between the Grinders and the Tushes on each fide of the Mouth: So that that part of the Gum which lies under, and at the fide of the Barrs, retains the Name of Gum. The Barrs are that part of the Mouth upon which the Bitt should rest, or have its Appui; for though only a fingle Canon bears upon the Tongue, the Barrs are so tender and ienfible, that they feel the Effect of it even through the Thickness of the Tongue. Since your Horse's Barrs are so very fensible, he has a Fine Light Mouth; and in a whole Days Riding, you have him all along upon the Hand, with an Even, Firm and Light Appui, or Rest. This Horse has Round Hard Barrs, that are not very fenfible, you must 4412

make him a Bitt that will Rouze him, and make him Feel it, fuch as a Bitt that pulls all along; that is, one that does not bend, to give room to the Tongue in the Middle. These are desperate Bars, which have been so broke and cicatris'd, that now they are insensible. Your Horse seems to have a very Fine Tender Mouth, for his Barrs are Sharp and Edged like those of a Barbary-Horse. Your Horse's Lip guards, that

is, covers the Barr.

A Horse is said to fall foul of the Barr, (in French, Embarrer) when in the Stables he entangles his Legs upon the Partition-Barr that's put to feparate two Horses, and keep 'em from falling upon one another. Your Barbs, and your Vigorous Ticklish Horses are apt to fall foul of the Barr, and when they do, they struggle, and fling, and wound themselves in the Hocks, the Thighs, and the Legs, and are in danger of laming themselves, unless you speedily cut the Cord that keeps up one End of the Barr, and fo fuffer that End to fall to the Ground.

BAY Colour. A Bay-Horse is what we commonly call Red inclining to Chesnut. This Colour varies several ways; 'tis a Dark-Bay, or a Light-Bay, according as 'tis more or less deep: And we have like-wise Dappled-Bays. See Mirou-

ette.

Manes, which diffinguishes them from the Sorrel that have red or white Manes.

BEAN or Lampas. See

Lampas.

Bean, or Eye of a Bean. See

Eye.

BEARD, or Under-beard, or Chuck of a Horse; is that part underneath the lower Mandible on the out-side, and above the Chin, which bears the Curb of the Bridle, See Gurb and Genette.

BEAT upon the hand. See

Chack.

Beat; to beat the Dust or the Powder, is faid of a Horse that at each Time or Motion does not take in Ground or Way enough with his Fore-legs. A Horse beats the Dust at terra a terra, when he do's not imbrace or take in Ground enough with his Shoulders, and makes all his Times or Motions too short, as if he made em in one place. He beats the dust at Curvets, when he do's 'em too precipitantly, and too low. He beats upon a Walk, when he walks too short, and makes but little way, whether in straight Lines, Rounds, or Passaging.

BELLY; a Thick-belly'd, a Well-body'd, a Well-flank'd Horse; that is, a Horse that has large, long, and well-made Ribs; or such as are neither too narrow nor too flat. This Horse has Belly enough, for his Flank shews that he feeds well.

Such a Horse has no Body, he's thin-flank'd; that is, his Ribs are too narrow, or short, and the Flank turns up: which makes his Body look flanklefs, like a Grey-hound. A Horfe of this nature we commonly call in French, an Estrac; which generally speaking is a fine fort of tender Horses, not very fit for Travelling or Fatigue, unless they feed very heartily. We reject all Coach-Horses that are not well-bodied, all that are narrow or thin-gutted, and feem to have the Hide or Skin of their Flanks stitch'd upon their Ribs: But a Hunter is not the worse lik'd for being light-belly'd; nay on the contrary, he's preferr'd to a thicker flank'd Horse, provided he's well winded, of good Mettle, light, and a great Eater. Since this Runner has lost it's Belly, if you mean to give it a better Belly, and make it thicker gutted, you must turn it to grass. Instead of the word Belly or Gut we frequently use Flank. See Handful, Estrac, Light-belly'd, and Flank.

BIDET. See Nag.

BITT, or Horse-Bitt, (in French, Mords) in general signifies the whole Machine of all the iron Appurtenances of a Bridle; as the Bit-mouth, the Branches, the Curb, the Sevil-holes, the Tranchessil, and the Cross Chains: But oftentimes it signifies only the Bit-mouth in particular.

Bita

Bit-mouth (in French, Embouchure) is a piece of Iron forged ieveral ways, in order to be put into a Horse's Mouth, and to keep it in subjection. Of these Bit-mouths, fome are fingle Canon-mouths, fome are Canon-mouths with an Up-fet or mounting Liberty, tome Scatch-Mouths, fome Mouths after the Form of a Barge, fome with two long turning Olives, and feveral other forts; all with different Liberties for the Tongue, or without Liberty. But all Bit-mouths ought still to be proportion'd to the Mouth of the Horse, according as 'tis more or less cloven and wide, or more or less sensible and tender, according as the Tongue and the Lips are higher or flatter, and as the Palate is more or less fleshy: Observing withal that if the Horse be old, the Palate will always have but little Flesh upon it. Your Horfe has a falfe Mouth; and tho' the Bit-mouth is well ordered, he do's not obey. See Liberty.

A Bit-mouth, all of a piece, without a joint in the middle, is call'd by the French a Bit that prefles de l'entier. See

Barrs.

BLACK; More, or Coalblack is the Colour of a Horie that's of a deep, shining, and lively Black.

BLAZE. See Star, and

White-Face.

BLEYNE is an Inflammation occasion'd by Blood putrified in the inner part of the Coffin towards the Heel, between the Sole and the Coffin-My Horse is not lame now, for he's cur'd of his

Bleyne. See Hoof-cast.

BLOSSOM or Peachcolour'd Horse, is one that has his Hair white, but intermix'd all over with Sorrel and Bay Hairs. Such Horses are so insensible, and hard both in the Mouth and the Flanks, that they are scarce valued; besides, that they are apt to turn blind.

To BLOW upon the Hair or Frush. See Hair, and Bou-

illon.

BOAR; A Horse is said to boar, when he shoots out his Nose as high as his Ears, and tolles his Nose in the wind. See Wind.

BODY; A Horfe wellbody'd; i.e. thick-flank'd, highbelly'd. See Belly, and Light-

belly'd.

BOLSTERS of a Saddle, are those parts of a great Saddle which are rais'd upon the Bows, both before and behind, to hold the Rider's Thigh, and keep him in a Posture of withstanding the Disorders that the Horle-may occasion. Commonly Saddles have no Hind-Bolsters. We use the Expression of fitting a Bolfter, (in French, Chausser une Batte) when

we put the Cork of the Saddle into the Bolster, to keep it tight. That Part of the Saddle being formerly made of Cork, took first that name, tho' now 'tis made of Wood.

BOUILLON is a Lump or Excrescency of Flesh that grows either upon or just by the Frush, insomuch that the Frush shoots out like a Lump of Flesh, and makes the Horse halt; and this we call the Flesh blowing upon the Frush. Your Manage Horses, which never wet their foot, are subject to these Excrescencies, which make 'em very lame.

BOULETE; A Horse is call'd Boulete, when the Fetlock or Pastern-joynt (in French, Boulet) bends forward, and out of its natural Situation; whether thro' violent Riding, or by reason of being too shortjointed, in which case the least

Fatigue will bring it.

BOWS of a Saddle, are two Pieces of Wood laid Archwife, to receive the upper part of a Horse's Back, to give the Saddle its due Form, and to keep it tight. The Fore-bow which fustains the Pommel, is compos'd of the Withers, the Breasts, the Points or Toes, and the Corking. The Withers is the Arch that rifes two or three fingers over the Horse's Withers. The Breafts are placed where the Arch or upper part of the Bow ends. Points or Toes are the lower

part of the Bow: and the Corking is pieces of Wood, formerly pieces of Cork, upon which we fit and make fast the Bolsters. The Hind-bow bears the Trouffequin, or quilted Roll. The Bows are cover'd with Sinews; that is, with Bulls Pizzles beaten, and fo run all over the Bows to make 'em stronger. Then they strengthen 'em with Bands of Iron to keep 'em tight, and on the lower fide of the Bows, nail on the Saddle-straps, with which they make fast Girths.

BOUT; A Horse is said to be A Bout, when he is overdone and quite spent with Fa-

tigue.

BOUTE; A Horse is called Boute, when his Legs are in a straight Line, from the Knee to the Coronet. Short-joynted Horses are apt to be Boute; and, on the other hand, long-

joynted Horses are not.

BRANCHES of the Bridle, are Two Pieces of Iron bended, which in the interval between one and the other bear the Bitt-Mouth, the Crofs-Chains, and the Curb; fo that on one end they answer to the Head-stall, and on the other tothe Reins, in order to keep the Horse's Head in subjection. A Hardy, Bold or Strong Branch, is one that brings in the Head. A Weak Branch is a Branch that was formerly us'd for raising the Head, but now is difus'd, elpecially

especially since the discovery of the Error of those who fancy'd that it rais'd after the same manner with the Kned-Branches. Mr. Solleysel has publish'd an excellent Treatife of Bitts and See Banquet and Branches. Shoulder.

BRASSICOURT, or Brachicourt, is a Horse whose Fore-Legs are naturally bended Arch-wife; being fo call'd by way of distinction from an Arch'd-Horse, whose Legs are bow'd by Hard Labour.

BRAYE, an obsolete French Word, made use of by fome to fignifie the Entry of a Horse's Throat, or the Extremity of the Channel towards the Lower Maxillary Bones.

BREAK. To break aHorse in Trotting, is to make him Light upon the Hand by Trot. ting, in order to make him fit for a Gallop. To break aHorse for Hunting, is to Supple him, and make him take the Habit of Running. 'Tis a Furious Fatigue to run Horses at full fpeed before they are Broke. When this Horse is Broke, he'll run well.. This Thick wellknit Horse is strong indeed, but 'zwill be a long time before he's Broke.

BREASTS, part of the Bow of a Saddle. See Bows.

BREAST of a Horse. See Counter.

BREAST-PLATE, or Tee, is the Strap of Leather that runs

the other, over the Horse's Breast, in order to keep the Saddle tight, and hinder it to flide backwards when the Horse goes upon a Rising-Ground.

BREATH, or Wind. This Word fignifies sometimes the easieRespiration of a Horse; and fometimes it implies the Ease and Rest, or Repose of a Horse. As, Give your Horse Breath, do not ride him down. Give that Leaping Horfe a long Breathing time between the Turns or Repetitions of his Manage. This Horse is well Winded. Your Hunters should be Long-winded. This Barb has always held his Wind equally upon his Manage. This Horse is Master of his Wind. or Breath. This last Expression is applied to Horses that snort. and your Jockeys take Snorting for a fign of a Long-winded Horie. See Snort.

A Thick-winded Horse (in French, Cheval gros d' haleine) is a Horse that without being Purfive, wants Breath, and wheezes very much upon a Trot or a Gallop. This Horse is Thick-winded, by reason that the Respiration Passages are too narrow.

BREED, (in French Haras) is the Place where Mares for Breed, and Stallions are kept in order to raife a Stud. To keep a Breed, to govern and manage a Breed. All from one fide of the Saddle to the Mares in this Breed have

To make a Good Breed, you can't choose a better Stallion than a Spanish Horse; nor better Stud-Mares than your Naples Mares. Out of this Breed I have had two Barbary Echape's.

BRIDLE of a Horse is a Contrivance made of Straps or Thongs of Leather, and Pieces of Iron, in order to keep a Horse's Head in subjection and

obedience.

Instead of saying, Pull the Bridle, we say, Bear your Hand: And for Slacking the Bridle, we say, Slack your Hand: Lower your Hand:

Yield with your Hand.

To cleave to, or hold by the Bridle, implies the Fault of an Ill Horseman, who instead of slacking his Hand, when a Horse is disorderly, clings to it, as if 'twere to the Mane. Such a Horse-man does not sit firm by no means; he wants the Habit, or else the Force of clinging close with his Thighs: When the Horse slies out, and is disorderly, he holds by the Bridle as if 'twere the Pommel of the Saddle. See Light-hand and Pontlevis.

Touch, or Check of the Bridle.

See Ebrillade and Saccade.

To Swallow the Bridle (in French, Boire la Bride, or to Drink the Bridle) is faid of a Horse that has too wide a Mouth, and too small a Bitt-Mouth; insomuch that the Bitt

rifes too high, and Gathers or Furles the Lips, and misplaces it self above that place of the Barrs where the Pressure should be; and by this means the Curb is likewise displac'd, and shov'd too high.

Bridle-hand, is the Horseman's Left-hand; the Righthand is call'd the Spear or

Sword-hand.

BRIDON. See Snaffle.

BRILLANT: A Brisk High Mettled Stately Horse is called Brillant, as having a Rais'd Neck, a Fine Motion, Excellent Haunches which he rifes, tho' never fo little put on. Such a Horse Champs upon his Bridle with a Good Grace. I faw but now in the King's Querry one of the most Brillant and best manag'd Horses that can be. I have just bought a Horse that knows nothing, but he's Brillant and if right taken, will fucceed in the Manage.

BRING in a Horse, is to keep down the Nose of a Horse that Bores and Tosses his Nose up to the Wind; this we do with a good strong Branch. See

Banquet and Wind.

BROUILLER: A French
Word us'd in the Academies,
importing that a Horse, when
put to any Manage, Plunges,
Traverses, and appears in Disorder. This Gentleman is not
Master of his Legs, he makes
his Horse Brouiller; i. e. he
makes him Traverse and Cast

down

down his Head, the Spur being too hard for him. Sit very close upon that Barb, for he has his Aids fo fine; that if you cling with your Thighs never so little beyond the Due, and alter your Legs, you'll make him Brouiller, and hinder him to work in the Due Manage. See Thighs.

BUTTERIS is an Inftrument of Steel fitted to a Wooden-Handle, with which they pare the Foot, or cut the

Hoof of a Horfe.

BUTTON of the Reins of a Bridle, is a Ring of Leather with the Reins pass'd through it, which runs all along the length of the Reins. To put a Horie under the Button, is done when a Horfe is stop'd without a Rider upon his Back, the Reins being laid upon his Neck, and the Button lower'd fo far down, that the Reins bring in the Horse's Head, and fix it to the true Posture or Carriage. 'Tis not only the Horses which are manag'd in the Hand that must be put under the Button, for the fame Method must be taken with fuch Horses as are bred between two Pillars, before they are back'd.

CADENCE, is an equal Measure or Proportion

Motions, when he's thoroughly manag'd, and works justly at Gallop, terra a terra, and the Airs; so that his Times or Motions have an Equal Regard to one another, that one does not imbrace or take in more Ground than the other, and that the Horse observes his Ground regularly. This Horse works always upon the fame Gadence; he follows the Cadence; he does not change his Cadence, he remains equally between the two Heels. He is: fine and gentle in all his Aids, and when put to the Manage, he never interrupts his Cadence. This Horse has so Fine a Mouth, and works with fo much liberty in the Shoulders. and Haunches, that he keeps his Cadence with great Facility: Nay, he takes a very good-Cadence upon his Airs, without stepping false, without jumbling, and works equally to both Hands. See Countertime and Time.

CALADE, or Baffe, is the Defcent, or Sloping Declivity of a Rifing Manage Ground, being a finall Eminence upon which we ride down a Horfe feveral times, putting him to a fhort Gallop, with his Forehams in the Air, to make him learn to ply or bend his Haunches, and form his Stop upon the Aids of the Calves of the Legs, the Stay of the Bridle, and the Cavellon, feafoobserv'd by a Horse in all his nably given; for without

thefe

these Aids, he would throw himself too much upon his Shoulders, and not bend his Haunches. Work your Horse in a Calade after the Italian way; ride him straight, and then you make good use of the Calade. These Calades will discourage your Horse, and perhaps ruin his Hams, for you have pitch'd upon too steep a Declivity; and besides, you do not make the Aids of the Bridle accord with those of the Calves of the Legs.

CANON-MOUTH of a Bitt, is a round but long piece of Iron, confilting Iometimes of two pieces that couple and bend in the middle; and fometimes only of one piece, that does not bend, as in the Canon-Mouth à Trompe. Canon-Mouths of all forts are contriv'd to keep the Horse in fubjection; and are so contriv'd that they rife gradually towards the middle, and afcend towards the Palate; to the end that the void Space left underneath may give fome liberty to the Tongue.

CAPARASSON or Horse-cloth, is a fort of Cover for a Horse. For led Horses 'tis commonly made of Linnen Cloth, border'd round with Woollen, and enrich'd with the Arms of the Master upon the middle which covers the Croupe, and with two Cyphers on the two sides. The Caparassons for the Army are

fometimes a great Bear's-skin; and those for Stables are of single Buckram in Summer, and of Cloth in Winter.

CAPRIOLES or Leaps of firma a firma, are Leaps that a Horse makes in one and the fame place, without advancing forwards, and that in fuch a manner, that when he's in the Air and at the height of his Leap, he yerks or strikes out with his Hinder-legs even and near. A Capriole is the most difficult of all the high Manage, or rais'd Airs. It differs from a Croupade in this, that in a Croupade the Horse do's not thew his Shoes; and from a Balotade in this, that in a Balotade he do's not yerk out. Your Horse will never work. well at Caprioles, unless you put him between two Pillars, and teach him to raife first his Fore Quarters, and then his Hind Quarters, while his Fore are yet in the Air; for which end you must give the Aids of the Whip, and the Poinson. If you would teach your Horse to make Caprioles, and yerk out handsomely with his hinder Feet, stay and help him with your hand, and your heels. This Leaping Horse takes to Caprioles of himself, for he makes equal Leaps, and that upon the hand, i. e. without forcing the hand, and resting heavy upon the Bridle. See to Yerk.

CARACOL is an oblique Piste or Tread traced out in Semi-rounds, changing from one hand to another, without observing a regular ground. When Horse advance to charge in Battel, they fometimes ride up in Caracols, to perplex the Enemy, and make 'em doubtful whether they are about to take 'em in the Front, or in the Flank. Caracol is a Spanish word, and in that Language fignifies the Motion that a Squadron of Horse makes, when upon an Engagement the first Rank has no sooner fired their Pistols, than they divide and open into two Half-Ranks, the one wheeling to the right, and the other to the left, along the Wings of the Body to the Rear. Every Rank observes the same Order after firing; and the Turning or Wheeling from the front to the rear is call'd a Caracol.

To Caracole, is to go in the

form of Half-rounds.

CAREER; this Word fignifies both the Ground that's proper for the Manage, and the Course or Race of a Horse that do's not go beyond two Hundred Paces. This Barb makes a very good Career from pacing to stopping. This English Horse do's not furnish his Career; that is, he does not finish his Course with the same Swiftness, and does not move to short and swift at the mid- happens frequently to your dle and end, as at the begin-

ning. This Spanish Horse is fit for the Ring; he has a short and fwift Career, and holds it

for a Hundred Paces.

CARRY low; (in French Porter bas;) A Horse is said to Carry Low that has naturally a foft ill-shap'd Neck, and lowers his Head too much. All Horses that arm themselves Carry Low; but a Horse may Carry Low without arming: For when he arms himself, his Neck is too fupple, and he wants to evade the subjection of the Bridle; but when he Carries Low, he has his Neck ill-plac'd, and ill-made. Horse Carries Low, try whether a French Branch or a Gigor will raise him; for tho' they can rectify Nature, I doubt much if they can change it.

To Carry well, or in a becoming Posture, (in French, Porter en beau lieu) is said of a Horse whose Neck is rais'd or arch'd, and who holds his Head high, without constraint, firm

and well-placed.

CAST Hair or Hoof. Horse casts or sheds his Hair at least once a year. Every Spring he Casts his Winter-coat, and takes a Summer one; and sometimes in the end of Autumn he puts on his Winter-hair, in case he has been ill-curry'd, or ill-cloath'd, or kept in a cold Stable. Sometimes he Calls likewise his Hoof; and this Coach-Horses that come from

Holland: For these being bred in a moist marshy Country, their Hoofs are too slabby, and of too weak a Consistence; so that coming into a dryer Country, where they're fed with less juicy Provender, they gradually east their Hoof, by reason that their foot grows, and another sirmer Hoof is form'd. Since your Horse casts his Hoofs, make the Farrier give 'em a good form in Shoeing him, or else his Feet will grow flat, and like an Oyster-shell.

CAVALCADOUR is a Word us'd at the Court of France, and the Families of the Blood; signifying the Querry that's Master of the Horse. Thus we say, the Querry Cavalcadour of the Queen's Stables; the Querry Cavalcadour of Monsieur or the Duke of Orleans's Stables. In Italy this word signifies the Person who trots Colts with Bandelle Sad-

dles. See Bardelle.

an old Italian word, now difus'd in France, fignifying a Perfon vers'd in the Art of governing and breaking Horses.

CAVALIER, in a warfike fense, signifies all Soldiers that are mounted on Horseback: But in the Manage it implies one that understands Horses, and is practis'd in the Art of Riding them.

CAVESSE de More. See

More's-head.

CAVESSON, is a fort of Nose-band, sometimes of Iron, fometimes of Leather or Wood, fometimes flat, and fometimes hollow or twifted, which is clapt upon a Horse's Nose to wring it, and fo forward the fuppling and breaking of the Horse. The cavesfon of Leather, and those of Wood, are made use of when we put Horses between two Pillars; and when we fay a Horse takes the Ropes, we mean the Ropes or Straps of that fort of Cavesson. An Iron-Caveffon faves and spares the Mouth of Young Horses when we break 'em; for by the help of it we accustom 'em to obey the Hand, and to bend the Neck and Shoulders, without hurting their Mouth, or spoiling their Barrs with the Bitt. Now, an Iron Cavesson is a Semicircle, or a Band of Iron bended to an Arch, confifting of two or three Pieces join'd by Hinges, and this we clap upon the Nofe of a Young Horse. Some Caveffons of Iron are twiftedorwreath'd, and some are flat, which bear equally upon the Nofe, and are indeed the best. A Cavesson, a Siguette, or a Biting Cavesson is hollow in the middle, and notch'd like a Saw upon the two sides of its Concavity, in order to pinch the Nose of a Surly or Stiffnecked Horfe. The Caveffor call'd Camare was arm'd with little Teeth, on very Sharp Points-

Points of Iron, which tore and abused a Horse; so that at pre-Tent 'tis banish'd the Academies, and the very Name is Icarce known among the Bittmakers of Paris. The Signette is likewise in disgrace. All Iron Cavessons are mounted with a Head-stall, a Throat-band, and two Straps or Reins, with three Rings; one Rein we pass through the Middle Ring, when we mean to make a Horse work round a Pillar; or for want of a Pillar, round a Man that stands in the Center. Through the two fide Rings, we pass the two Reins which the Rider holds in his Hand, or makes fast to his Saddle, in order to keep a Horse's Head in subjection, and to supple his Shoulders. See Ropes.

CHACK, or Beat upon the Hand. A Horse is said to Chack or beat upon the Hand, when his Head is not steady, but he toffes up his Nofe, and shakes it all of a sudden, to avoid the Subjection of the Bridle. You have a Turkifb Horfe that retains the Fault of that Country Horses; he Beats upon the Hand; and the best Bitts that are, nor the best Hand, cannever fix his Head. This Horse Chacks upon the Hand like a Croat or Croatian Horse; which proceeds from this; that his Barrs are too fharp and ridged, or edged, so that he can't bear the pressure of a Bitt, though never to gentle. If your Horle

had not too sensible, or too tender a Mouth, he would not Beat upon the Hand: But in order to fix and secure his Head, you need only to put under his Nose-band a small slat Band of Iron, bended Archwise, which answers to a Martingale. This will hinder him to beat upon the Hand, but will not break him of the Habit; for as soon as the Martingale is taken off, he'll fall into the same Vice again. See Wind.

of a Bridle. See Tranches

file.

CHANFRIN, is the Fore-part of a Horse's Head, extending from under the Ears, along the Interval between the Eye-brows, down to his Nose.

CHANFRAIN-BLANC.

See Star or Blaze.

CHANGE a Horse, or Change Hand, is to turn or bear the Horse's Head from one Hand to the other, from the Right to the Lest, or from the Lest to the Right. You should never change your Horse without pushing him forward upon the Turn; and after the Turn, push him on straight, in order to a Stop. This Horse changes from the Right with an ugly Grace. See Entier, Nails, Walk, and a Passade of Five times.

CHANGE Hair or Hoof.
See Cast:

B 2 CHAN-

CHANNEL of the Mouth of a Horse, is that Concavity in the middle of the Lower Jaw, appointed for a place to the Tongue; which being bounded on each side by the Barrs, terminates in the Grinders, or Maxillary-Teeth. The Barbles grow in this Chan-

nel.

CHAPELET, is a Couple of Stirrup-Leathers mounted each of 'em with a Stirrup, and joining at top in a fort of Leather-Buckle, call'd the Head of the Chapelet, by which they are made fast to the Pommel of the Saddle, after being adjusted to the Rider's Length and Bore: They are used both to avoid the trouble of taking up or letting down the Stirrups every time that the Gentleman mounts on a different Horse and Saddle, and to supply the want of the Academy Saddles, which have no Stirrups to em.

CHAPERON of aBitt-mouth, is a Word only us'd for Scatch-Mouths, and all others that are not Canon-mouths; fignifying the End of the Bitt that joins to the Branch just by the Banquet. In Scatch-mouths the Chaperon is Round, but in others tis Oval: And the same part that in Scatch and other Mouths is called Chaperon, is in Canon-

Mouths called Froncean.

CHARBON, (i.e. Coal) is an obfolete French Word, fignifying that little Black Spot or

Mark that remains after a Large Spot in the Cavity of the Corner-teeth of a Horse, about the Seventh or Eighth Year, when the Cavity fills, and the Tooth being smooth and equal, is said

to be ras'd.

CHARGE, is a Preparation or an Ointment of the consistence of a Thick Decoction, applied to the Shoulder-Splaits, Inflamations and Sprains of Horses. The Parts affected are rubb'd and chafed with this Composition, after which you may cover 'em with Sinking: Paper, if you will. Charges are made two ways, viz. either with Emmiellures; i.e. a Mixture of Honey, Turpentine, Suet, and the other Drugs; or with a Remolade, which is a Mixture of the Lees of Wine with the Drugs of the Emmiellure. Your Farriers contound the Names of Charge, Emmiellure and Remolade, and indifferently use one for t'other.

or Corrections, are the Severe and Rigorous Effects of the Aids; for when the Aids are given with Severity, they be-

come Punishments.

CHAUSSE Trop-Haut; a White-footed Horse is said to be such, when the White Marks run too high upon the Legs.

CHEST Founder'd. See

Foundered.

Word;) a Horse is said to Che-

valer, when in passaging upon upon a Walk, or a Trot, his Far Fore-leg crosses or overlaps the other Fore-leg every second time or motion. See to Pallage.

CHINE, or Spine of the Back; (in the French Echine, and among the Ancient Italian Masters Esquine) is the Backbone, or the Ridge of the Back of a Horse.

CHINK. See Clift.

CLAMPONNIER, or Claponnier; an obsolete Word, fignifying aLong-jointed Horfe; that is, one whose Pasterns are long, flender and over pliant. The Word is properly applicable only to Bulls or Cows, for la Claponniere (in French) is in them what the Pastern is in a Horfe.

CLIFT, Chink, Crack or Chap; (in French Avalure) is a Deficiency in the New, Soft and Rough Uneven Hoof, that grows in Hories Feet upon

the Hoofcast.

CLOSE Behind (in French, Crochu; i. e. Crooked; ) is a Horse whose Hoofs come too close together; commonly such Horses are good. The Country People in France call fuch a Horse Jarretier; but that Word is in difuse at Court.

To Close (Fermer) a Paffade justly, is when the Horse ends the Passade with a Demivolt in good order, well narrow'd and ounded, and terminates upon he same Line upon which he parted; fo that he's still in a condition to part from the Hand handsomely, at the very last time or Motion of his Demivolt. The French call this Fermer, or Serrer la Demivolte.

COFFIN of a Horse is the whole Hoof of the Foot above the Cronet, including the Coffin-bone, the Sole and the Frush. For want of knowing how to cure fuch a Bleyme, your Horse is Hoof-cast, and his Coffin is fallen.

Coffin-Bone is a small Spongy Bone inclosed in the midst of the Hoof, and possessing the whole Form of the Foot. See

Tendon.

COLD, or Rheum, is a Flux of Impure Humours, which are evacuated by a Horse's Nostrils, and occasion a Cough less or more, a loathing of Food, and a heaving or

beating of the Flanks.

COLT implies both the He and She of a Mare's casting: They lose this Name when they are about four Years old, for then we begin to back 'em. They are not capable of any great Labour or Fatigue till the Upper-tushes have cut the Skin, which happens about four Years, or four and a half. You should not put this Colt in the Manage, he is not above three Years old; you'll weaken his Back, and quickly ride him down; stay till he's at least five Years old, and then he'll have

B 3

more Vigor and Memory. See

Amble.

TO COMMENCE, or inisiate a Horse, is to put him to the First Lessons, in order to break him. To commence this Horse, you must work him round the Pillar. See Rope.

CORD. See Rope.

CORK of a Saddle. See

Bolfter.

CORNERS, or Angles of the Volte, are the Extremities of the Four Lines of the Volte, when you work in a Square. To make the Four Corners; to work upon the Four Corners.

See Four and Square.

Corner-Teeth of a Horse, are the Four Teeth that are placed between the Middling Teeth and the Tufhes, being two above, and two below, on each fide of the Jaw, which shoot forth when the Horse is four

Year and a half old.

CORONET, or Gronet of a Horse, is the lowest part of the Pastern, which runs round the Coffin, and is diffinguish'd by the Hair which joins and covers the upper part of the Hoof. Look to your Horse's Coronet, he has given himself an Attaint. Your Horse has a Crepance, or Malt-worm in his Coronet.

CURVETS are Leaps of an indifferent heighth, which a Horse makes in raising first his two Fore-legs in the Air, and making the two hinder Feet follow with an equal Cadence;

fo the Haunches go down together, after the Fore-feet have touch'd the Earth, in continual and regular Reprizes. A Horse that's put to the Air of Corvets, a Horse that makes Corvets, that works at Corvets, that takes to Corvets of himfelf. This Horse beats the Dust in his Corvets, for he plays 'em too fast, and too low. have work'd this Horse in Corvets with fo little care, that he has got a Jardon. Since that Horse has got the Spavin, he'll abate his Corvets from the greatest heighth, for it being a Dry-Spavin, 'twill make him lift his Legs. See to Harp or Grapple, to Beat the Dust, Abate and Time.

To make a Cross in Corvets.

See Gross.

COUCH'D. A Horse couched upon his Volts. See

Volte Couched.

COUNTER of a Horse, is that part of a Horse's Forehand which lies between the Shoulder, and under the Neck. I see an Anticor in your Horse's Counter, you'll be obliged to, put Ellebor-Roots into it. Herber.

Counter-Time, (in French, Contre-temps) is the defence or refistance of a Horse that interrupts his Cadence, and the Meafure of his Manage: This is occasioned either by a bad Horse-man, or by the Malice of the Horse. This Leaping Horse has made two or three Counter-

times,

times, and instead of raising his Fore-quarters, has continued to yerk behind. This Horse has broke the Justness of his Manage by his Counter-times, and the Rider has but forrily seconded the Aids of the Bridle with the Aids of the Heels.

Counter-mark'd. A Horse is said to be Counter-mark'd, when his Teeth are artificially made hollow by a Farrier's Graver; and a False Mark is made in the Hollow Place, in imitation of the Eye of a Bean; with intent to make people believe that the Horse is not above six years old, and so conceal his Age, which in effect is far beyond what the Mark would seem to intimate.

Counterpoife, or Ballance of the Body, is the liberty of the Action and Seat of a Horseman, acquired by practifing in the Manage: So that in all the Motions made by the Horse, the Horse-man does not incline his Body more to one fide than to the other, but continues in the middle of the Saddle, bearing equally on his Stirrups, in order to give the Horse the feafonable and proper Aids. This Gentleman keeps his Counterpoise so well, that he is always prepar'd against the Surprizes and Diforderly Motions of the Herfe. Seat.

Word, which is not received

in the Manage, fignifies upon other occasions, a Gallop at full speed. This Barb is a good Courser, and well winded. This English Racer has won the Course.

CRACK, or Cleft, is a Chop in the Pasterns or Fetlocks of a Horse, which throws out Red Stinking Water. See

Cleft.

CRAMP is a Stiffness in the Leg of a Horse, who oftentimes when he's drawn out of the Stable, drags his Leg for sifty or sixty Paces, as if he had no Motion in his Hough; but after that the Cramp disap-

pears.

Ing on the Pastern, under the Fetlock, and sometimes under the Hoof; upon which Score 'tis distinguish'd into the Sinewy Cratches which affect the Sinew, and those upon the Cronet, call'd Quitter-bones. Since your Horse has a Quitter-bone, you must cut the Tendon.

CREAT is an Usher to a Riding-Master, or a Gentleman bred in the Academy, with intent to make himself capable of teaching the Art of Riding

the Great Horse.

CREPANCE is a Chap or Cratch in a Horse's Legs, given by the Spunges of the Shooes of one of the Hinderfeet crossing and striking against the other Hinder-foot. This Cratch degenerates into an Ulcer. B 4 CRE- CREVICE; i.e. Chop,

Clift, or Chink.

CROATS, or Cravats, are Horses brought from Croatia, a Frontier of Hungary; which for the most part beat upon the Hand, and bear up to the Wind; that is, bear their Nose, shaking their Head. The Croats are subject to be hollow or shell-tooth'd.

CRONET. See Coro-

net.

CROSS: To make a Cross in Corvers, to make a Cross in Balotades, is to make a fort of Leaps or Airs with one Breath forwards, backwards, and fideways, as in the Figure of a Gross. Some talk of making a Cross in Caprioles, but that can't be; for the Horses that should make Caprioles backwards, would appear resty, and such as we call Ramingue, which would not work according to the just exactness of the Manage: Not to mention that the most vigorous Horse that is, can't with one Breath mark the whole Cross in Caprioles.

CROWN'D: A Horse is said to be crown'd, when by a Fall, or any other Accident, he is so hurt or wounded in the Knee, that the Hair sheds and falls off, without growing again. This Horse is Crown'd, you'll find it a hard matter to put him off; for Crown'd Horses are not very saleable, because they

are suspected to be apt to fall

upon their Knees.

creaps than those of Corvets, which keep the Fore and Hindquarters of the Horse in an equal height, so that he trusses his Hind-legs under his Belly, without yerking or shewing his Shooes. Croupades differ from Caprioles and Balotades in this, that in Croupades the Horse does not yerk as he does in the other two Airs.

High-Croupades are Croupades rais'd above the ordinaryheight, I'm about to put this Horse to the Air of Croupades. This Horse presents right for Croupades. He works in Croupades; he makes Croupades. See Yerk.

CROUPE of a Horse is the Extremity of the Reins, above the Hips. In making the Volts, a Horse's Shoulders should be opposite to his Croupe. Those who us'd this Expression, mean'd, that a Horse walking fideways, and upon two Piftes, his Shoulders make one Tract while the Groupe makes another. But after all, this is not a just way of speaking; for at that rate the Shoulders are not oppofite to the Croupe in a Straight Line, by reason that half the Shoulders marches before the Croupe, and the Horse bending his Neck a little, looks into the See Head in , and Trus d.

To Gain the Croupe, is when one Horse-man makes a Demi-

tour

tour upon another, in order to take him upon the Croape. If in a Combat you are hard put to it by your Enemy, make a Demi-Pyroet at the end of the Passade, and gain his Croupe.

Without slipping the Groupe (Sans que la Groupe echape). This Expression is used for Volts and a Gallop, and signifies, without traversing, without letting the Croupe go out of the Volte or the Tread of the Gallop.

Your Horse has a Tettar in his

Croupe. See Tettar.

CURB is a Chain of Iron made fast to the upper part of the Branches of the Bridle, in a Hole called the Eye, and runming over the Beard of the Horse. Your Horse will never be right upon the Hand unlessyou give him a longer Curb, tor the uneafiness of his Beard. occasion'd by this Curb, makes him tofs his Nofe up to the Wind, and chack and beat upon the Hand. Your English Watering Bitts have no Curbs; and the Turkish Bitts, call'd Genettes, have a Ring that ferves in the room of a Curb. See Genette.

To give a Leap upon the Curb, is to shorten the Curb, by laying one of the Mails or S like Joints of the Chain over the rest.

Curb is a Hard and Callous Tumour, that runs along the inside of a Horse's Hoof; that is to say, on that part of the Hoof that is opposite to the Leg of the same side.

CUT. See Interfere.

To Gut or Geld a Horse, is to render him impotent; after which he is called a Gelding (in French, Hongre) by way of distinction from a Stone-horse. Commonly your Roussins, (i. e. your Strong Thick-bodied Dutch Horses) are Stone-horses and not Geldings. The best way to cure a Horse of Biting and Kicking is to Geld him.

To Cut the Round, or Cut the Volte, is to change the Hand when a Horse works upon Volts of one Tread; so that dividing the Volt in two, he turns and parts upon a Right Line to recommence another Volt. In this fort of Manage, the Riding-Masters are wont to cry, Coupez, Coupez le Rond; Cut, cut the Round.

D.

APPLE-BLACK, is a Black-horse, that in his Black Skin or Hair has Spots or Marks, which are yet Blacker and more shining than the rest of the Skin. When Bay-Horses have Marks of a Dark-bay, we call 'em Dappled-Bays, or Bays a Miroir.

DECEIVE. A Horse is said to be deceived (Trompe) upon a Demivolt of one or two Treads, when working (for instance)

having yet furnished above half the Demivolt, he's press'd one time or motion forwards, with the Inner-Leg, and then is put to a Reprise upon the lest, in the same Cadence with which he begun; and thus he regains the Place where the Demivolt had been begun to the Right, and works to the Lest. Thus you may deceive a Horse upon

any Hand.

DEVUIDER: A Term in the Academies, applied to a Horfe that in working upon Volts, makes his Shoulders go too fast for the Croupe to follow, so that instead of going upon two Treads, as he ought, he endeavours to go only upon one: Which comes from the resistance he makes in defending against the Heels; or from the fault of the Horse-man that's too hasty with his Hand. See Hasten.

the Lips of a Horse, is to keep em subject and out from above the Barrs, when they are so large as to cover the Barrs, and prevent the true Pressure or Appui of the Mouth, by bearing up the Bitt, and so hindring the Horse to feel the effects of it upon the Barrs. Give your Horse a Bitt with a Canon Coupè, or Cut, which will Disarm his Lips; or else put the Olives upon him, which will have the same Effect.

DIS-ERGOT. See Er-

got.

To Disgorge, (in French, Degorger) is to Discuss or Disperse an Inflamation or Swelling: Your Horse's Legs are Gorged or Swelled, you must walk him out to Disgorge'em.

DISUNITE: A Horse is said to Disunite, that drags his Haunches, that gallops false, or upon an ill Foot. See Gal-

lop false.

is a large Case of Leather as long as the Dock of a Horse's Tail, which serves for a Cover to the Tails of Leaping Horses, and is made fast by Straps to the Crupper, and has Leathern Thongs that pass between his Thighs, and along the Flanks to the Saddle Straps, in order to keep the Tail tight, and to hinder it to whisk about, or make the Horse appear broader at the Groupe.

DOUBLE: To Double the Reins: A Horse Doubles his Reins when he leaps several times together to throw his Rider. This Ramingue doubles his Reins, and makes Pontlevis's.

See Pontlevis.

DRENCH; (in French, Armand) is a fort of Decoction prepared for a Sick Horse, and composed of several Drugs, mentioned in Mr. Solleysel's Compleat Horse-man. They put the Drench or Armand upon the end of a Bull's Pizzle, and thrust

thrust it down his Throat, in order to recover his Appetite and Strength.

DRY: To put a Horse to Dry-Meat, is to feed him with Corn and Hay, after taking him from the Grass, or housing

him.

DULL: The Marks of a Dull Stupid Horse (in French, Marques de ladre) are White Spots round the Eye, and on the Tip of the Nose, upon any general Colour whatsoever: These Marks are hard to be dissinguished in a White-horse: Though the Vulgar take these Spots for Signs of Stupidity, it is certain they are a great sign of the Goodness of a Horse; and the Horses that have them, are very sensible and quick upon the Spur.

DUST: To beat the Dust.

See Beat.

#### E.

Oreitlard): A Horse is said to be such, if the Root or low-er part of the Ear is placed too low, and the Ear it self is too large. Take care of these Two Wide-Ear'd Nags, their Ears are ill placed, and slap too far down; do but observe that with their Great Broad Ears, they mark all the Times or Points of a Walk or Trot, as if they were Hogs.

EBRILLADE, is a Check of the Bridle, which the Horse-man gives to the Horse by a Jerk of one Rein, when he refules to turn. An Ebrillade differs from a Saccade in this, that a Saccade is a Jerk made with both Reins at once. Most People confound these two Words, under the general Name of a Check, or Jerk of the Bridle; (in French, un Coup de Bride): But let that be as it will, 'tis always a Chastifement, and no Aid, and the Use of it is banished the Academies.

ECAVESSADE, is a

Jerk of the Cavesson.

ECHAPER; Laiser Echaper de la Main: To suffer a
Horse to escape, or slip from
the hand; A Gallicism us'd in
the Academies, implying, to
give him head, or put on at
full speed. When you give
your Horse head, guide him
streight. See Nails.

(so call'd in French) is a Horse got between a Stallion and a Mare, of a different Breed, and different Countries. In this Breed I have had two Barbary Echape's, and two of Spar

nish Horses.

ECOUTE: A Pace or Motion of a Horse is said to be Ecoute, or Listening, when a Horse rides well upon the hand and the heels, compactly put upon his Haunches; and

hears

hears or listens to the Heels or Spurs, and continues duly balanced between the Heels, without throwing to either side. This happens, when a Horse has a fine Sense of the Aids of the Hand and Heel.

ECURIE is a Covertplace for the Lodging or Houfing of Horses. Our Horses
are but ill stabled in this Ecurie. The French use the word
(Etabler) to stable, as a Verb.
But in the room of the Noun
they imploy Ecurie. This
Horse's Hair stares, and is
planted upright, becase he has
been too coldly stabled in this
Ecurie.

ECUYER; A French word (in English, Querry) has different Significations in France. In the Academy, or Manage, the Riding-Master goes by the name of Ecuyer. In the King of France's Houshold there are Querries, or Ecuyers de quartier, who help the King in Mounting his Horfe, and Alighting; and follow his Majesty upon Horse-back, and carry his Sword. The Queen's Gentlemen Uthers, and the Masters of the Horse to Princes and Persons of Quality, are called Ecuyers. Befides all which, there are the Ecuyers Cavalcadours; for which iee Cavalcadour.

EFFECTS of the Hand are taken for the Aids, i. e. the Motions of the Hand, that ferve to conduct the Horse. There are four Effects of the

Hand, or four ways of making use of the Bridle; namely, to push a Horse forwards, or give him head; to hold him in; and to turn the hand either to the right or left. See Nails.

EGUILLETTE; No-

uer l' Eguillette. See Yerk.

EMBARRER. See

Barr.

EMBRACE the Valt. A Horse is said to Embrace a Volt. when in working upon Volts he makes a good way every time with his Fore-legs. Such a Horse has Embraced a good deal of Ground; for from the place where his Fore-feet flood, to where they now stand, he has Embraced or gone over almost a Foot and a half. If he does not Embrace a good deal of ground, he'll only beat the dust; that is, he'll put his Forefeet just by the place from whence he lifted them. Thus the opposite Term to Embracing a Volt, is, Beating the dust. AHorse cannot take in too much ground, provided his Croupe does not throw out, that is, provided it does not go out of the Volt. See Beat.

EMIELLURE. See

Charge.

ENCRAINE; an old obfolete and improper Word, fignifying a Horse witherwrung, or spoil'd in the Withers.

ENLARGE a Horse, or make him go large, is to make him embrace more Ground than

he cover'd. This is done, when a Horse works upon a round, or upon Volts, and approaches too near the Center, so that 'tis desir'd he should gain more ground, or take a greater Compass. To Enlarge your Horse, you should prick him with both Heels, or aid him with the Calves of your Legs, and bear your Hand outwards. Your Horse narrows, enlarge him, and prick him with the inner Heel, fustaining him with the outer Leg in order to prefs him forwards, and make his Shoulders go. Upon fuch occasions the Riding-Masters cry only, Large, Large. See In.

ENSEMBLE; Bien en-

semble. See Haunches.

ENTABLER; A word us'd in the Academies, as applied to a Horse whose Croupe goes before his Shoulders in working upon Volts: For in regular Manage, one half of the Shoulders ought to go before the Croupe. Your Horse Entables; for in working to the right, he has inclination to throw himfelf upon the right Heel; and that fault you may prevent by taking hold of the right Rein, keeping your right Leg near, and removing your left Leg as far as the Horse's Shoulder. A Horse can't commit this fault without committing that call'd in the Academies Aculer; which fee. But Aculer may be without Entabler. See Aculer, and Embrace.

ENTIER, the French Word for a Stone-Horse. Entier is a fort of Resty Horse that refuses to turn; and is so far from followingor observing the Hand, that he refists it. Such a Horse is Entier on the right Hand; he puts himself upon his right Heel, and will not turn to the right. If your Horse is Entier, and refuses to turn to what hand you will, provided he flies or parts for the two Heels, you have a Remedy for him; for you have nothing to do but to put the Newcastle upon him, i. e. supple him with a Cavesson made after the Duke of Newcastle's way.

Entier; a Bit that presses de

Pentier. See Bit-mouth.

ENTORSES. See Pa-

ENTRAVES, and En-

travons. See Locks.

ENTREPAS is a broken Pace or Going, and indeed properly a broken Amble, that is neither walk, nor trot, but has fomewhat of an Amble. This is the Pace or Gate of fuch Horses as have no Reins or Back, and go upon their Shoulders, or of such as are spoil'd in their Limbs.

EPARER; a Word us'd in the Manage, to fignify the Flinging of a Horse, or his Yerking and striking out with his Hind-legs. See Nover l'E-guillete, and Yerk. In Caprioles, a Horse must yerk out behind with all his force; but in

Balot-

Balottades he strikes but half out; and in Croupades he does not strike out his Hind-legs at all. All such Yerking-Horses are reckon'd rude Horses.

ERGOT, is a Stub like a piece of foft Horn about the bigness of a Chesnut, placed behind and below the Pastern-Joynt, and commonly hid under the Tuft of the Fetlock. To dif-ergot, or take it out, is to cleave it to the quick with an Incision-knife, in order to pull up a Bladder full of Water that lyes cover'd with the Ergot. This Operation is scarce practifed at Paris; but in Holland 'tis frequently performed upon all four Legs, with intent to prevent Watery Sores, and other foul Ulcers.

ESCLAME is an obsolete French Word, signifying a light-

belly'd Horfe.

ESQUIAVINE, an old French Word, fignifying a long and severe Chastisement of a Horse in the Manage.

ESTRAPADE is the Defence of a Horse that will not obey; who to get rid of his Rider, rises mightily beafore; and while his Fore-hand is yet in the Air, yerks furiously with his Hind-legs, striking higher than his Head was before; and during this Countertime, goes back rather than advances.

ESTRAC is the French Word for a Horse that is lightbody'd, lank-belly'd, thin-

flank'd, and narrow-chested. See Belly, Light-belly'd, Flank, Jointee, and Green.

ESTRAPASSER. See

Over-do.

EXTEND a Horse: Some make use of this Expression, as importing, to make a

Horse go large.

EYE of the Branch of a Bridle, is the uppermost part of the Branch, which is flat with a hole in it, for joining the Branch to the Head-stall, and for keeping the Curb fast.

Eye; a Horse unshod of one Eye. A rallying Expression, importing, that he's blind of

an Eye.

Eye of a Bean is a black Speck or Mark in the Cavity of the Corner-Teeth, which is form'd there about the Age of Five and a half, and continues till Seven or Eight. And 'tis from thence that we usually fay, such a Horse Marks still; and such a one has no Mark. See Teeth.

F.

TALCADE. A Horse makes Falcades, when he throws himself upon his Haunches two or three times, as in very quick Corvets; which is done in forming a Stop, and Half-stop. A Falcade, therefore, is this Action of the Haunches, and of the Legs

Legs which bend very low, as in Corvets, when you make a Stop or a Half-stop. This Horse stops well, for he makes zwo or three Falcades, and finishes his Stop with a Pesate. This Horse has no Haunches; he'll make no Falcades. The Falcades of that Horse are so much the prettier, that in making them his Haunches are low. Stop your Horse upon the Haunches, in making him ply 'em well; so that after forming his Falcades, he may refume his Gallop without making a Pesate; that is, without stopping, or marking one Time: And thus he'll make a Halfstop. See Stop, Half-stop, Haunches, and Time.

FALSE. This Horse is false. He Gallops false. See

Gallop falfe.

FARCY is a Poyson or Corruption that infects the Blood of Horses, and appears in Swellings like Strings along the Veins, in Knots, and even

in Ulcers. See Fire.

FARRIER's Pouch; A Leathern Bag, in which they earry Drivers, Nippers, Shoes for all Sizes of Feet, good sharp Nails, and all that is proper for new Shoeing a Horse that has lost his Shoe upon a Road. If you have no Farrier with you, you must always have in your Equipage a Farrier's Pouch well provided, and a Groom that knows how to drive Nails.

Horse, is a sort of natural Frizling of the Hair, which in some places rises above the lying Hair, and there casts a Figure resembling the Tip of an Ear of Corn. There are Feathers in several places of a Horse's Body, and particularly between the Eyes. Many believe that when the Feather is lower than the Eyes, 'tis a Sign of a weak Eye-sight: But this Remark is not always certain.

A Roman Feather, (in French, Epee Romaine) is a Feather upon a Horse's Neck, being a Row of Hair turn'd back and rais'd, which forms a Mark like a Sword-blade just by the Mane.

FEEL; to Feel a Horse in the hand, is, to observe that the Will of the Horse is in their hand; that he tastes the Bridle, and has a good Appui in obeying the Bit.

To feel a Horse upon the Haunches, is to observe that he plies or bends them; which is contrary to leaning, or throw-

ing upon the shoulders.

FERME a ferme; A Word peculiar to the Manage-Schools, fignifying, in the same place, without stirring or parting. You must raise that Horse ferme a ferme. This Horse leaps upon firma a firma, and works well at Caprioles. When a young Gentleman comes first to the School, the rest, to play upon him, will ask him to Gallop upon firma a firma.

FET-

FETLOCK; (in French, Fanon) is a Tuft of Hair as big as the Hair of the Mane, that grows behind the Paltern Joint of many Horses: Horses of a Low Size have scarce any such Tuft. This Coach-horse has a large Fetlock; and the other has fo much Hair upon his Legs, that if the Coach-man does not take care to keep them clean and tight, he'll be subject to the Watery Sores, call'd the Wa-(Les Eaux in French.) There's an Ergot; (i. e. aRound Hard Stub) behind that Fetlock.

FIG is a fort of Wart on the Frush, and sometimes all over the Body of a Horse. The Figs that appear in the Frush or Sole, make an Evacuation of Malignant Stinking Humours, that are very hard to cure. For the Cure, see Mr. Solleysel's Book.

FINGART, an absolute French Word, fignifying a Horse that kicks against the

Spurs.

FIRE: To give the Fire to a Horse, is to apply the Firing-Iron red hot to some Preternatural Swelling, in order to discuss it; which is oftentimes done by clapping the Firing-Iron upon the Skin, without piercing through. We give the Fire to Farcy-knots, by running a Pointed Burning-Iron into the Ulcers. We likewise give the Fire for Wrenches of the Pasterns.

FIRING-IRON is a Piece of Copper or Iron, about a Foot long, one end of which is made flat; and forged like a Knife, the Back of it being half an Inch thick, and the Foreedge about five or fix times thinner. When the Farrier has made his Firing-Iron red hot in his Forge; he applies the thinnelt part to the Horse's Skin, and fo gives the Fire to the Hams, or fuch places as stand in need of it. The Fire has been well given upon that Horse's Legs; in all appearance the Farrier had a Lighthand. See Fire.

FINITEUR, an old Word in the Italian Academies; fignifying the end of the Ca-

reer or Courfe.

FLAME, is a small Instrument of Fine Steel, compos'd of two or three moveable Lancets for blooding a Horle; and fometimes for making Incisions upon occasion, and so supplying the room of an Incision-Knife.

FLANK: A Horse is said to have Little Flanks, to be forrily Bodied, to be gaunt belly'd, and thin Gutted, (in French, Estrac) when his flank turns up like a Greyhound, and his Ribs are flat, narrow, and short. well Flank'd Horse, is one that has wide and well-made Ribs, and a good Body. In this cafe the Word Flank is used in the room of Gutt. See Belly, Lightbelly'd, Jointee and Green.

FLESHY

FLESHY Lump, or Excrescency. See Bouillon.

FLING, is the Fiery and Obstinate Action of an Unruly Horfe.

To Fling like a Cow, is to raise only one Leg, and give a Blow with it.

To Fling, or Kick with the

Hind-legs. See Yerk.

FLY the Heels: A Horse is faid to Fly the Heels, when he obeys the Spurs. See Spur, and Heels.

FON CEAU, is the Bottom or End of a Canon-Bittmouth; that is, the part of the Bitt that joyns it to the Ban-

quet. See Chaperon.

FOOT of a Horse is the Extremity of the Leg, from the Cronet to the lower part of the Hoof. The Four Feet are distinguish'd by four different Names: The two Fore-feet are by some call'd the Hands of a Horse; but that Term is in difuse, the common Expression being, the Far Fore-foot, to denote the Right-foot before: and the Near Fore-foot, the Stirrup-foot and the Bridlehand-foot, to denote the Leftfoot before.

Of the two Hinder-feet, the Right is call'd the Far-hindfoot; and when Spears were us'd, 'twas call'd the Spear-foot, because in resting the Spear, the Socket of it answer'd the Rightfoot. The Left-hind-foot is call'd the Near-foot behind.

Foot Fat: A Horse is said to have a Fat Foot, when the Hoof is fo thin and weak, that unless the Nails be drove very fhort, he runs the rifque of being prick'd in shooing. The English Horses are very subject to this Disorder. A Horse's Foot is said to be Derobe (in French) i. e. rob'd or stolen, when 'tis worn and wasted by going without Shooes, so that for want of Hoof, 'tis a hard matter to shooe him. I would not buy this Horse, because his Feet were Derobe, Oc.

A Horse's Foot is said to be worn or wasted (use) when he has but little Hoof, and not

enough for shooeing.

To gallop upon a good Foot, or put a Horse upon a good Foot (in French, Sur le bon pied).

See Gallop false.

FOUNDERING is an Universal Rheumatism, or defluxion of Humours upon the Sinews of a Horse's Legs, which causes so great a Stiffness in the Legs, that they lofe their wonted Motion. Your Horse appears very tired, though he has not rid or work'd hard; his Legs are stiff, he can't rise upon his Hinder-legs no more than if his Back were broke: Now all this speaks him foundered. If this Foundering does not make him Chest-founder'd, 'twill be the easier cured; but if he is both Foundered and Chest-foundered, and has the Molten-greafe,

as it happens fometimes, he will

not get over it.

on and heaving of a Horse's Flanks, with a Motion almost like that occasioned by a Fever. This may happen when a Horse is rid out of his Wind, and beyond his Strength, and is sooverheated with the fatigue, that he can't breathe.

A Foundered Horse that has been over rid, and has not a free Respiration, is distinguished from a Pursive Horse in this, that the Lungs of a Pursive Horse are altered and much assected by the violent heaving of the Flanks. A Horse is foundered without over riding, when his Inward Parts, or his Blood are over heated and stuffed with Foreing Humours.

To Founder, or over ride a Horse, is riding him out of his Breath, and beyond his

Strength.

FOUR - CORNERS; to work upon the Four-Corners, is to divide (in imagination) the Volt or Round into Four Quarters; fo that upon each of these Quarters the Horse makes a Roundor two at Trot or Gallop; and when he has done so upon each Quarter, he has made the Four-Corners.

FROTH, or Foam, is a Moist White Matter that ouzes from a Horse's Mouth. Your Horse champs upon his Bridle, and squeezes out of his Mouth a White Ropy Foam; which argues that he is a Horse of Mettle, Health, and a Cool Fresh Mouth.

FRUSH, or Frug of a Horse, is a fort of Tender Horn which arises in the middle of the Sole, and at some distance from the Toe, divides into two Branches running towards the Heel, in the form of a Fork. Look after this Horse, for the Flesh is run in upon the Frush; I see an Excrescence or sprouting of Flesh in that part. There's a Fig in that Sorrel's Frush: And this Roan has a Scabbed Frush: And here is another that has a Fat Frush; i. e. a Frush that is too thick and too large.

FUZEE is two dangerous Splents, joining from above downwards. Commonly a Fuzie rises to the knee and lames the Horse. Fuzies differ from Screws, or through-Splents in this, that the latter are placed on the two opposite sides of the

Leg.

G.

GALLOP is the Motion of a Horse that runs at full speed, in which making a kind of Leap forwards, he lifts both his Fore-legs almost at the same time, and when these are in the Air, and just upon the point of touching the Ground, he lifts both his Hind-Legs almost at once.

once. A Horse that has an eafie light Gallop; a Horse that takes the Gallop, that puts himfelf to the Gallop. Such a Horse gallops fine; i.e. he gallops upon his Haunches, he does not prefs heavy upon the Bridle, he bends his Fore-legs well, he has a good Motion with him, he is well coupled, and keeps his Legs united. This Horte gallops like an English Horse, he grazes or glances upon the Ground, that is, he gallops close to the Ground, and does not raise his Legs as he ought to do. Such a Horse goes equally well at a Step, Trot, and Gallop. The Great Gallop, or the Hunting Gallop, or the Gallop with a Long Stretch. Gallop with all the Heels; i. e. at full speed. A short light Gallop; i.e. a Slow Gallop. This Horse that wheezes upon a Gallop is infirm; but the other that fnorts, shews that he is Long-winded. This Horse gallops well upon two Treads. See Snort.

GALOPADE. The Fine Galopade, the Short Gallop, the Listening Gallop, the Gallop of the School: 'Tis a Hand-gallop, or Gallop upon the Hand, in which a Horse galloping upon one or two Treads, is well united, and well raccourci, or knit together, well coupled, and well fet under him. Horse makes a Galopade, and works with one Haunch in; 1. e. instead of going upon One Tread, whether right out, or

in a Circle, he has one Haunch kept in subjection, let the turn or change of the Hand be what it will; so that the inner Haunch which looks to the Center of the Ground, is more narrow'd, and comes nearer to that Center than the Shoulder does: And thus the Horse does not go altogether to that fide, and his way of working is a little more than One Tread, and somewhat less than Two. The difference between working with one Haunch in, and galloping upon Volts, and managing upon terra à terra, is that in galloping upon Volts, and working terra à terra, the two Haunches are kept subject, and the two Haunches are in, that is, within the Volt; but in galloping a Haunch in, only one is kept fubject.

To Gallop united, to Gallop upon the good or right foot, is, when a Horse that gallops right out, having cut the way, or led with either of his Forelegs, continues to lift that same Leg always first; so that the hinder Leg of a fide with the leading Fore-leg, must likewise be rais'd fooner than the other Hind-leg. For instance, if the right Fore-leg leads before the left, then the right Hind-leg must likewise move sooner than the left Hind-leg; and in this Order must the Horse continue to go on.

To Gallop false, to dif-unite, to drag the Haunches, to change

C 2'

feet; to go or run upon false feet, to gallop upon the false foot; is, when the Galloper, having led with one of the Fore-legs, whether right or left, do's not continue to make that Leg always fet out first, nor to make the Hind-leg of a fide with the leading Leg to move before its opposite Hindleg; that is to fay, the orderly Going is interrupted. A Horse that gallops falle, gallops with an unbecoming Air, and incommodes his Rider. My Horse did gallop false, but I have now taught him the right Foot. If your Horse gallops false, or dif-unites, and if you have a mind to put him upon keeping the right foot, and uniting well his Haunches; you must bring to with the. Calves of your Legs, and then with the Out-spur, that is, the Spur that's contrary and oppofite to the fide upon which he dif-unites; fo that if he dif-unites to the right, you must prick him with the left Heel.

GANACHES (fo called in French) are the two Bones, one on each fide of the hinder part of the Head, opposite to the Neck or Onfet of the Head, which form the Lower Jaw, and give it motion. 'Tis in this place that the Glands or Kernels of the Strangles and the

Glanders are placed.

GASKOIN. See

GATE (in French, Train) is the Going or Pace of a Horfe. This Horfe has a good Gate, but the other has a broken Gate. This Horse goes well, but t'other does not.

GELDING, (in French, Hongre) is a Horse whose Testicles are cut out, fo that he is

not fit for a Stallion.

To GELD. See Cut.

GENET, is a fmall-fiz'd well-proportion'd Spanish Horse. Mr. de la Broue gives the Name of Genet to fuch Italian Horfes as are well-made and pro-

portion'd.

GENETTE, or Turkish Bit; is a Bit, the Curb of which is all of one piece, and made like a large Ring, and plac'd above the Liberty of the Tongue. When they bridle a Horse, they make his Chin pass thro' this Curb, which furrounds his Beard. This fort of Bits are at prefent much us'd at the Court of France.

Genette; to ride with the Legs a la Genette, i. e. in the Genette or Spanish Fashion, is to ride fo fhort, that the Spurs bear upon the Horse's Flank. This would be reckon'd an Indecency in France and England; but among the Spaniards it paffes for a piece of Gallantry and handsome Carriage, when they ride upon their Genettes in going to Court before the La-

dies.

GIGOT, a Branch after the form of a Gigot or Leg, is a Branch, the lower part of which (call'd the Gargouille) is round.

GLANDERS, is a thick Slimy and Bloody Humour, proceeding from a Defect in the Lungs, and voided by the Nostrils. A Horse that has the true Glanders is gone, and good for nothing; and whoever buys such a Horse, (in France) can oblige the Seller to take him again, any time within Nine Days after Delivery. You must warrant this Horse clear of the Glanders, and Pursyness; and sound, hot or cold. See Sound.

GOAD. See Valet.

GOING, (in French, Alleure) is the Pace or Gate of a Horse. This Barb has all his Goings, or Paces, very fine; contrary to what we commonly observe of Barbs; for they are apt to stumble upon a Bowling-Green, unless they be animated, bore up, and put on. This Horse has a cold Gate with him; that is, he does not bend his Knee as he ought to do; and he raifes his Legs fo little, that he grazes, or fweeps the Ground.

GORGED, i.e. swell'd. This Horse's Pastern-Joynt is gorged, and the other has his Legs gorged: You must walk him out to dis-gorge 'em, or take down the Swelling.

GRAPES; a Word fometimes us'd to fignify the Arrests, or Mangy Tumors that happen in a Horse's Legs.

See Arrests.

To GRAPPLE (in French, Harper.) A Horse is faid to Grapple, either one, or both Legs; the Expreffion being peculiar to the Hinder-legs. He grapples both Legs, when he lifts 'em both at once; and raises 'em with precipitation, as if he were a Curvetting. He grapples one Leg, when he raises it precipitantly higher than the other without bending the Ham. Your Horse harps, or grapples, so that he must have the Stringhalt in his Hough.

GRASS; to put a Horse to Grass. To turn him out to Grass to recover him. To take a Horse from the Grass, and keep him at Dry Meat. See Dry, and

Green.

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GREEN; (Vert) to give a Horse Greens, is to put him to Grass. If in the Spring-time your Horse is over-rid, lean, and gaunt-belly'd, give him Green Barley. If he's young, and his Flank not altered, that may recover him.

GROUND. See Ter-

GROUPADES, a Corruption of Groupades.

H.

H.

HAIR. In speaking of Horses, the French use the Word Poil, (i. e. Hair) to fignifie their Colour: And fometimes 'tis us'd to fignifie that part of the Flank that receives the Prick of the Spur. After you have prick'd the Horse, do not leave your Spur in his Hair. Remove your Spur from the Hair, and prefently recover your Legs to their place, for you always have your Spurs in his Poil.

To Rub a Horse à Poil, is to rub him down with the Grain, observing the natural lying of the Hair, and not going against

the Hair.

Pale-Hair, or Poil-Lave, is those parts of the Skin that approach more to White than the rest, as being not of so high

a linge.

Staring Hair, (Poil Plante, or Planted Coat) is faid of a Horse whose Hair briftles up, or rises upright; which Disorder is owing to his being ill curry'd, not well covered, or too coldly

housed.

HALBERT (in French, Bec de Corbin) is a small Piece of Iron, one Inch broad, and three or four Inches long, Tolder'd to the Toe of a Horie's Shooe, which jets out before to hinder a Lame Horse to rest or tread upon his Toe.

Halbert-Shooes do of necessity constrain a Lame Horse, when he goes at a moderate Pace, to tread or rest on his Heel; which lengthens and draws out the back Sinew, that was before in

fome measure shrunk.

HALTER for a Horse, is a Head-stall of Hungary Leather, mounted with one, and fometimes two Straps, with a fecond Throat-band, if the Horse is apt to unhalter himfelf. If you put a Halter upon this Horse, tye it very short, for if he can but lie down, 'tis enough: Take care of hisHeadstall or Collar. Such a Horse has the Tick, he ticks upon his Halter.

Halter-cast, is an Excoriation of the Pastern, occasioned by the Halter its being entangled about the Foot, upon the Horse's endeavouring to rub his Neck with his Hinder-

feet.

Unhalter. A Horse is said to Unhalter himfelf, that turns off his Halter. Since your Horse is fo apt to unhalter himself, you must get him a Halter with a Throat-band.

Strap or String of the Halter, (longe) is a Cord, or long Strap of Leather made fast to the Mead-stall, and to the Manger, to tye the Horse. Do not bridle your Horse till you see if he is Halter-caft. See Tick.

HAND, is the Measure of a Fist clinched, by which we compute the heighth of a Horse: The

The French call it Paume, and had this Expression and Meafure first imparted to them from Liege. A Horse for War should be 16 or 18 Hands

high.

Handfull. Two Handfulls (in French, une Jointee) is as much Grain or Bran as the two Hands will hold when joined together. You have a Horse that's very Lank-belly'd, if you have a mind to make him well Bodied, put a Jointee of Wheat every Morning into his Manger.

Hand: Spear-hand, or Swordhand, is the Horse-man's Right-

band.

Bridle-hand is the Left-hand of the Horfe-man. There are feveral Expressions which relate to the Bridle-hand, because that Hand gives motion to the Bittmouth, and ferves to guide the Horse much more than the other helps. A Horse-man ought to hold his Bridle-hand two or three Fingers above the Pommel of the Saddle. This Horie-man knows how to keep time between his Hands and his Heels. This Horse-man has no Hand; that is, he does not make use of the Bridle but unfeafonably, and does not know to give the aids or helps of the Hand with due nicety.

To keep a Horse upon the Hand, is to feel him in the Stay upon the Hand, and to be always prepared to avoid any Surprifal or Disappointment from

the Horle.

A Horse is said to be, or rest well upon the Hand, that never refuses, but always obeys and answers the Effects of the Hand, and knows the Hand. A Horseman should make it his business to make the Horse know and obey the Heels. To make a Horse right upon the Hand, and free in the Stay, or Rest, he must be taught to know the Hand by degrees, and gentle Methods; the Horse-man must turn him, or change Hands, stop him, and manage with dexterity the Appui or Pressure of his Mouth, so as to make him suffer cheerfully and freely the effect of the Bitt-mouth, without refifting or resting heavy upon the Hand. This Horse has no Stay, he beats upon the Hand. The Short, or Handgallop teaches Horses to be right upon the Hand.

A Light Hand. A good Horseman ought to have a Light Hand; that is, he ought only to feel the Horse upon his Hand, in order to refift him when he attempts to flip from it; and he ought, instead of cleaving to the Bridle, to lower it, as foon as he has made his resistance. If a Horse through an overbearing eagernels to go forward, preffes too much upon the Hand, you ought to flack your Hand at certain times, and keep a hard Hand at other times, and fo disappoint the Horse of preffing continually upon the Bitt. Now this facility or liberty in

the

the Horse-man, of slacking and stiffening the Hand, is what we call a Good Hand. Your Horse works well, but you stick too much to the Bridle; instead of holding thus by the Bridle, you ought to clap your Thighs close to the Horse, and keep a Light Hand, and then you'll manage with exactness. Do not you know, that to have a Light Hand, and to manage a Horse with a Swinging Bridle, is one of the greatest marks of a goodHorse-man?

To flack or yield the Hand,

is to flacken the Bridle.

To hold up, or sustain the Hand, is to pull the Bridle

To guide a Horse by the Hand, is to turn or change Hands

upon one Tread.

Part from the Hand. See

Appui, or Stay of the Hand. See Appui,

Beat upon the Hand. See

Beat. Beat.

To be heavy upon the Hand. See Heavy.

To press upon the Hand. See

Prefs.

To change the Hand or turn.

See Change.

Effects of the Hand. See Effects.

Hasten the Hand. See

To feel a Horse upon the Hand. See Feel.

Full Hand, or Full Rest upon

the Hand. See Appui and Mouth.

To have Mares cover'd in the

Hand. See Stallion:

A Horse is said to force the Hand, when he does not fear the Bridle, but runs away in spite of

theHorse-man.

To make a Horse part from the Hand, or suffer him to slip from the Hand, is to put on at full speed. To make a Horse part right from the Hand, he should not put himself upon his Back or Reins, but bring down his Hips.

All Hands. A Horse that turns upon All Hands, upon a Walk, Trot or Gallop. A Horse that is not entier or resty for one

Hand. See Entier.

To work a Horse upon the Hand, is to manage him by the effect of the Bridle, without interposing any other helps, excepting that of the Calves of

the Legs, upon occasion.

To lead a Horse in your Hand, to walk him in your Hand, to trot him in your Hand; i. e. without mounting him. If you would discover whether a Horse is Lame, trot him in your Hand

upon a Pav'd place.

Fore-hand and Hindhand of a Horse, is an Expression distinguishing the Parts of a Horse, as divided into the fore and hinder Parts, by the situation of the Horse-man's Hand. The Parts of the Fore-hand are the Head, the Neck, and the Fore-quarters.

quarters. Those of the Hind-hand include all the other Parts of the Body. Tho' this Horse looks well in the Fore-hand, he's yet better made in the Hind-hand. Such a Horse is ill shaped in the Hind-hand, he has a Flagging Croupe. See Brillant and Movement or Motion.

HAQUENEE, an obsolete FrenchWord for an Ambling

Horfe.

To HARP. See Grap-

ple.

HARD Horse, is one that is insensible of Whip or Spur. This Horse is so hard, he's good

for nothing but a Cart.

HART, or Stag-Evil, is a fort of Rheum or Defluxion that falls upon the Jaws, and the other Parts of the Fore-hand of a Horse, which hinders him to eat. Sometimes this Distemper affects likewise the Parts of

the Hinder-quarters.

HASTE or quicken your Hand, (Hatez la Main, hatez, hatez) is an Expression frequently used by the Riding-Master, when a Scholar works a Horse upon Volts, and the Master has a mind he should turn his hand quicker to the side on which the Horse works; so that if the Horse works to the right, he turns quicker with his Shoulders to the right. And the like is observed if he works to the left.

HAUNCH, or Hip of a Horse, is that part of the hindquarter that extends from the Reins, or Back to the Hough or Ham. The Art of riding the Great Horfe has not a more necessary Lesson than that of putting a Horse upon his Haunches; which in other Terms is call'd coupling him well, or putting him well together, or compact; (in French, bien insemble, and Sous lui.) A Horse that can't bend and low'r his Hips, throws himself too much upon his Shoulders, and lies heavy upon the Bridle. A Horse is said to be throughly managed (in French, Achevee') when he bears well upon the hand, knows the Heels, and fits well upon his Hips. This Horse has his Haunches in subjection, and falques very well, for in making his Falquades, he holds his Haunches very low, and bends admirably well. To make a Horse bend his Hips, you must frequently make him go backwards, and make use of the Aids of the Hands, and of the Calves of your Legs, in giving him good Stops; and if that does not succeed, try him upon a Calade, or Sloping Ground, after the Italian Fashion. Your Horse makes his Hips accompany his Shoulders so well, that he is perfectly right fet, See put upon the Haunches, Calade, Caveffon, Falquade and Feel.

To Drag the Haunches, is to change the Leading Foot in galloping. See Gallop false.

Head in, and Hips in. See Head.

To Gallop with the Haunch

in. See Galopade.

HEAD of a Horse, imports the Action of his Neck, and the effect of the Bridle and the Wrist. This Horse plants his Head well, and obeys the hand. Such a Horse refuses to place his Head, he shoots out his Nose, and never rests right upon the hand; he stays too much, or too little upon the hand. Such a Horse appears in a good Posture, he carries his Head well.

To give a Horse Head. See

Partir and Echaper.

Head in, and likewise the Hips. You must passage your Horse, Head and Groupe in; i.e. work him side-ways upon two Parallel Lines, at Step or Trot; so that when the Horse makes a Volt, his Shoulders mark a Piste, or tread, at the same time that his Haunches give the Tract of another, and the Horse plying or bending his Neck, turns his Head a little within the Volt, and so looks upon the Ground he is to go over.

HEARTS: A Horse of Two Hearts (de deux coeurs) i.e. a Horse that works in the Manage with constraint and irresolution, and can't be brought to consent to it. Such Horses are much of a piece with your Ramingues, or Kickers against

the Spurs.

HEAVY: To rest heavy, upon the hand, is said of a Horse who through the Softness of his

Neck, the Weakness of his Back, the Weight of his Fore-quarters, or through Weariness, throws himself upon the Bridle, but withal, without making any relistance, or any effort to force the Horse-man's hand. Your Horse has too great an Appui or Rest upon the Bridle, he's heavy upon the hand, trot him upon his Haunches, and fustain or bear up with the Bridle. By stopping him, and making him go back frequently, you may make him light upon the hand, and so correct that Fault if it comes only from Laziness and Stiffness; but if it proceeds from a Defect in the Back, or Limbs, there's no remedy for it. My Horse is heavy upon the hand, but that is not fo great a Fault as if he press'd and refisted upon the hand. See Pres.

HEEL of a Horse, is the lower hinder-part of the Foot, comprehended between the Quarters, and opposite to the Toe. Your Horse is hoof-bound, and to recover his Heels you ought to take out his Sole, and keep his Heels very wide; by which the Heels will be restor'd in a Month. This Horse has Narrow-heels, so give

him Panton-shooes.

Heel of a Horse-man. This being the part that's arm'd with the Spur, the Word Heel is taken form the Spur it self. This Horse understands the Heels well; he knows the Heels;

he

he obeys the Heels; he answers the Heels; he's very well upon the Heels: The meaning of all which, is, that the Horse obeys the Spurs; which, in effect, is flying from 'em. Put your Heel to your Horse; stay him; bring to; prick with the right; prick with the left; clap both to his Sides. This Horse knows the Heels in Curvets, in Caprioles. Make him fly from the Right-heel; make him fly from the Left: Such a Horse relifts the Spurs: he's a Ramingue; i.e, a Kicker against the Spur. To ride a Horie upon the Hand and Heels, is to make him take the Aids of the Hand and the Heels with a tender fense.

To ride a Horse from one Heel to t'other, is to make him go side ways, sometimes to one Heel, and sometimes to another: For instance; having gone ten Paces in slying from the Rightheel, you make him without stopping go still side ways in slying the Lest-heel; and so on alternately.

Inner-heel and Outter-heel. See

In, and Narrow.

AVILLE U GAL

HERBER, a French Word us'd by the Farriers, importing the following Application. For some Diseases, such as those of the Head and the Anticor, they put into the middle of aHorse's Counter, a piece of Hellebore-Root, which makes it swell and suppurate.

HERBE, (Grass) a Word in the French Academies, signifying a Reward, or some good Stuff given to a Horse that has work'd well in the Manage.

HIP. See Haunch.

Hipshot; (in French, Epointe, and Eshanche), A Horse is said to be such when he has wrung or sprain'd his Haunches or Hips, so as to relaxate the Ligaments that keep the Bone in its due place.

HOLD. A Mare holds.

See Retain.

HOLLOW-TOOTH'D

Horse. See Shell-tooth'd.

HOOF, or Horn of a Horse's Foot, is a sort of Nail, of a Finger's depth, that furrounds the Sole and the Coffinbone. In shooeing a Horse, the Nails are driven into the Hoof, in such a manner, that the Shooe does not bear nor rest upon the Sole; for the Sole being tenderer than the Hoof, the Shooe would injure it, and lame the Horse. When the Hoof is worn, we fay the Foot is worn, Let your Horse's Hoof grow. Cracks or Clifts are apt to happen in the Hoof. The Diforder call'd Hoof-bound happens in the Hoof of the Forefeet. Your Horse has got a Quitter-bone. See Drive.

Hoof-bound: A Horse is said to be Hoof-bound, when he has a Pain in the Fore-feet, occasioned by the Dryness and Contra-

Etion

Etion or Narrowness of the Horn of the Quarters, which straitens the Quarters of the Heel, and oftentimes makes the Horse lame. A Hoof-bound Horse has a Narrow-heel, the sides of which come too near to one another, insomuch that the Frush is kept too tight, and has not its natural extent: Such Horses should be shooed with the Panton-Shooes. See Panton and Heel.

Hoof-cast. A Horse is said to Cast his Hoof, when a New Horn grows in the room of the Coffin, after its being fallen off by any Disease, such as Quitterbones, or Bleymes. A Horse that has cast his Hoof, is good for nothing but the Plough, and such kind of Work. Since for want of Proper Remedies, you have suffer'd your Horse to cast his Hoof, tell me whether it proceeds from a Bleyme upon the Gronet, or from Foundering, or from a Prick.

HORN. See Hoof.

Horn. To give a Stroke with the Horn, is to blood a Horse in the Roof of the Mouth, with the Horn of a Stag, or Roe-buck, the Tip or End of which is so sharp and pointed, as to produce the effect of a Lancet. We strike with the Horn in the middle of the Fourth Notch or Ridge of the Upper-Jaw. This Horse is over heated, you must strike him with the Horn. See Ridge.

A HORSE is an Animal fo generally known, that to define him, 'tis sufficient to say, he is the noblest and most useful of all Animals, and his Sensible Nature, Obedience, Swiftness and Vigor are at once the Object and the Subject of the noblest and most necessary Exercise of the Body.

HOUGH, or Ham of a Horse, is the Joint of the hinder-quarter, which joins the Thigh to the Leg. Your Manage Horse's must be made to bend their Houghs. Your Horse has Fat, Fleshy, Small, and confequently defective Houghs; but my Horse's Houghs are large, broad, well drain'd, and not inflam'd. There's no Horse here, but what is troubled in the Hough with the Houghbony, Spavin, Jardon, Wind-galls, Bloodspavin, Curbs or Selenders. Look upon the Houghs of these two Horses, the one is closed behind, and the other grapples. See Grapple.

What is it, the Cramp that makes your Horse's Hough so stiff?

Horse-Block. See Montoir.

Hough-bony; a Swelling on the Tip or Elbow of the Hough in a Horse's hinder-quarters, about as big as half a Tennis-Ball.

HOUSSE, (Saddle-Cafe) is a Cover made commonly of Leather, and put upon a Saddle to fave it.

HOUZING,

HOUZING, is either Boot-houzing, or Shooe-houzing: The former is a piece of Stuff made fast to the hinder-part of the Saddle, which covers the Croupe of the Horse, either for Ornament, or to cover the Horse's Leanness, or to preferve the Rider's Cloths, and keep 'em from being daub'd with the Sweat of the Horse. The Houzing for fuch as ride with Shooes, is commonly a piece of Scarlet Cloath bordered with Gold-fringe, and put round the Saddle, fo as to cover the Croupe, and descend to the lower part of the Belly, to fave the Gentleman's Silk-Stockings, when he mounts in his Shooes.

T.

JARDES, or Jardons, are callous and hard Swellings in the Hinder-legs of aHorse, seated on the out-side of the Hough, as the Spavin is on the in-side. Jardons lame a Horse, unless you give the Fire dexterously, and betimes,

JARRETIER, an obsolete French Word, signifying a Horse whose Houghs are too close together; which is now expressed in French by Crochu,

i. e. Crooked, or Hook'd.

IN, Inside, Within: And Out, Outside, Without. The inner Heel, the outer Heel; the inner Leg, the outer Leg; the

In-Rein, the Out-Rein. This way of speaking relates to several things, according as the Horse works to the right or left upon the Volts; or as he works a-long by a Wall, a Hedge, or some such thing. Thus it serves to distinguish on what hand, or what fide, the Horseman is to give the Aids to a Horse upon Manage. For a-long by a Wall, the outer Leg is the Leg of a fide with the Wall; and the other Leg is the In-leg. And upon Volts, if a Horse works to the right, the right Heel is the inner Heel, the right Leg the inner Leg; fo that by confequence the left Heel, and left Leg, must be the outside Heel and Leg. Now the downright contrary will happen, if thehorse works to the left. Now a-days, the Riding-Maffers, to be the easier understood, use the Terms right and left, as for instance: Affift the Horse with the right Heel, with the right Leg, with the right Rein; taking the Situation of the Heels and Legs with respect to the Volt. See Enlarge, Gallop False, and Large.

In; the Head in, the Haun-

ches in. See Head.

In; to put a Horse in; i. e. to breed or dress him. By which Expression, we understand putting him right upon the Hand, and upon the Heels. This Sorrel is put in (Mis dedans,) that is, he is broke, dress'd, and ma-

naged.

naged. The D. of Newcastle put Horses perfectly well in, by the means of his Cavesson.

INSTEP, is that part of the Hinder-leg of a Horse, that corresponds to the Shank in the Fore-leg, extending from the Ham to the Pastern-Joynt.

INTERFERE; a Horse interferes, when the side of one of his Shoes strikes against, and hurts one of the Fetlocks.

JOINTEE. See Hand-

ful.

# K.

K I C K E R against the Spurs. See Ramingue.

KNEE of a Horse, is the Joint of the Fore-quarters that joins the Fore-Thigh to the Shank. Do not you fee that your Horse has got the Malenders in the Bend of the Knee? And truly I am of the mind, that he has Selenders a coming in the Bend of the Hock or Ham. These two Horses have two fcurvy Faults in their Knees; the one's Arched by fatigue; and the other is fo naturally, or what we call Brafficour. Such a Horse has a very hard Knot, or Swelling upon his Knee. I will not buy this Peach Bloffom-colour'd Horse, because his Knee is crown'd: For my part, I shall be the last Man that shall defire to be his Maiter.

### L.

LAME; A Horse is said to be (Boiteum de l' Oreille)
Lame of an Ear, when he halts upon a Walk or a Trot, and keeps time to his Halting with the Motions of his Head: For all lame Horses do not keep time after that rate. Lame of the Bridle, is likewise us'd, by way of Raillery, to signify the same thing.

LAMPAS, or Bean, is a Swelling in the Palate of a Horse, i. e. an Inflammation in the Roof of his Mouth, behind the Nippers of the upper Jaw. Pray order this Lampas in your Horse's Mouth to be

burnt.

LARGE; A Horse is said to go large, or wide, when he gains or takes in more Ground in going wider of the Center of the Volt, and describing a greater Circumference. This Horse goes too large; he launches out upon too much Ground; he does not keep subject. You must conduct that Horse large, by bringing to your inner Heel; for he goes too narrow of himself. See Enlarge.

LEAD; A Horse going upon a straight Line always leads, or cuts the way (entame le chemin) with his right foot. The Duke of Newcastle was

the first that ever made use of the Term; and indeed it is very expressive. See Gallop united, and Gallop false.

LEAP, An Air of a Step

and a Leap. See Step.

Leaping Horse, i e. One that works in the high Manage; A Horse that makes his Leaps in Order, and with Obedience, between two Pillars upon a strait Line, in Volts, Caprioles, Balotades, or Croupades. Use, which in most things has a fovereign Sway, excludes a Gallop, a Terra a Terra, and Corvets, from the number of Leaps; because the Horse does not rife so very high in these. Each Leap of a Leaping Horse ought to gain, or make not above a Foot and a half of Ground forward.

LEEK-HEAD, (Poireau).

See Wart.

LEG of a Horse, is the Member that supports his Body, and performs the Motion when he goes. Of the Four Legs, the two before have feveral Parts, each of which has a peculiar Name: So that by the Name of Fore-leg, we commonly uuderstand that part of the Fore-quarters that extends from the Hough to the Pastern-Joynt; and call it the Shank: The part that corresponds to that in the Hinder-quarters, we call the Instep. But in common Discourse we confound the Fore and the Hind-quarters; and, without any diffin-

grade and the sale

ction, say, the four Legs of a Horse. This Horse has not a Leg to go upon, that is, they are spoil'd: Which is commonly understood of the Forelegs. Such a Horse's Leg flacks; that is, he stumbles. One of these Horses has arch'd Legs, and the others are gorged and fwollen. This Sorrel has got Arrests, or Mangy Ulcers, in his Leg. Such a Horse wants the Fifth Leg; that is, he's tyr'd, and bearing upon the Bridle, lyes heavy upon the Horseman's hand.

The French call a Horse Droit fur les jambes, i.e. straight member'd, or straight upon his Legs, when the Fore-part of the Pastern falls perpendicularly upon the Cronet; and the Shank and the Pastern are in a straight Line. See Straight,

and Long-joynted.

Legs of the Horseman: The Action of the Horseman's Legs, given feafonably and with judgment, is an Aid that confifts in approaching more or less with the Calf of the Leg to the Flank of the Horse; and in bearing it more or less off, as there is occasion. This Aid, a Horseman ought to give very nicely, in order to animate a Horse: And it's so much the finer, that 'tis hidden and private: For in stretching the Ham, he makes the Horse dread the Spur; and this fear has as much effect as the Spur it felf. Such a Horse

knows,

knows, or is sensible of, the Horseman's Legs. He takes the Aids of the Legs; he answers the Legs; he obeys the Legs.

The Inside Leg, the outside Leg' See Inside, Enlarge, and

Gallop false.

Horse upon his own Length, is to make him go round in two Treads, at a Walk or Trot, upon a Spot of Ground so narrow, that the Horse's Haunches being in the Center of the Volt, his own Length is much about the Semidiameter of the Volt; the Horse still working between the two Heels, without putting out his Croupe, or going at last faster or slower than at first.

LESSON, is a Word us'd for the Instruction both of the Horse, and the Scholar. This young Gentleman takes his Lesson upon all sorts of Horse. Content your self with this Lesson of Walk and Trot; and do not attempt the Lesson of a Gallop. The Horse o-

heys this Lesson.

LIBERTY of the Tongue; is a void Space left in the Middle of a Bit, to give place to the Tongue of a Horse, made by the Bit's Arching in the middle, and rising towards the Roof of the Mouth. The various Form of the Liberty gives Name to the Bit. Hence we say, a Scatch Mouth a Pignatelle, i. e. with the Liberty after Pignatelli's

Fashion: A Canon-Mouth with the Liberty like a Pigeon's Neck. In forging that Bit, don't make the Liberty too high, lest it hurt, or at least tickle the Palate, and make the Horse carry low.

LIEU, (Place) a French Word imployed in the Academies, to fignify the Situation and Posture of a Horse's Head. Ce Cheval porte en beau Lieu; i. e. this Horse carries well;

he holds his Neck high.

LIGHT Horse, (Leger) is a swift nimble Runner. We likewise call a Horse light that's well made, tho' he's neither swift nor very active: For in this last Expression, we consider only the Shape and Make of a Horse, without

regard to his Qualities. Light upon the hand; A Horse is said to be such, that has a good Tractable Mouth, and does not rest too heavy upon the Bit. Hories that have a thin Forehand, that is, but small Shoulders, are commonly light upon the hand. This Horse is light before, and fubject in the Hips. We call a Coach-Horse light, when he stirs nimbly, and dreads the Whip; or when he has a light Trot. All your light Coach-Horfes are good: and a hard heavy Coach-Horse, that takes the Lashing easily, is good for nothing.

Light Hand. See Hand. LIGHTEN;

LIGHTEN; To lighten a Horse, to make a Horse light in the Fore-hand, (in French, Allegerir) is to make him freer and lighter in the Fore-hand, than behind. If you would make your Horse light, you ought to find him always difpos'd to a Gallop, when you put him to a Trot; and after Galloping some time, you should put him back to the Trot again. This Horse is so heavy in the Shoulders, and cleaves to to the Ground, that you'll find difficulty in making him light in the Fore-hand, even tho' you make use of the Duke of Newcastle's Cavesson. Your Horse throws himself too much upon his Shoulders; you must make him light in the Fore-hand, and put him upon his Haunches. See Haunches, Motion, Break, and Terraignol.

LIGHT-BELLY'D Horse, is one that commonly has flat, narrow, and contracted Sides, which makes the Flank turn up like that of a Greyhound. Such a Horse has but little Flank, he's light-belly'd; he travels and feeds but little, because he has too much Met-

tle.

LINE of a Volt. See Square, and Volt.

Line of the Banquet. See

Banquet.

LIP of a Horse, is the Skin that covers the Sides of his Mouth, and surrounds his Jaws. A Horse is said to arm,

or guard himself with his Lips, when his Lips are so thick that they cover their Barrs, and keep off the pressure of the Curb.

LISTENING; A Horse goes a Listening Pace. See E-

couté.

LOCKS, (in French, Entravons) are pieces of Leather two fingers broad, turn'd round, and stuff'd on the inside, to prevent their hurting the Pastern of a Horse, round which they are clapp'd. An Entrave is compos'd of two Entravons joyn'd by an Iron Chain that's seven or eight Inches long. See Amble.

LONG-JOINTED Horse, is one whose Pastern is flender and pliant. This Horfe is too long-jointed; his Paitern is to easy and weak, that the Joynt scarce presses the Earth, and so 'tis not proper to fatigue him. I have a Horse, whose Forelegs go in a straight Line, from the Knees to the Cronets; but yours is long-jointed. There are fome long-jointed Horses that are strong and sinewy, and do not bend the Pastern-Joynt more than they thould do: And this fort of Horses work better in the Manage than the short-jointed. Longjointed Horses are apt to have Wind-Galls. See Legs.

LOW; to carry low. See

Carry.

LOYAL; A Horse is

faid to be Loyal, that freely bends all his force in obeying and performing any Manage he is put to; and does not defend himself, or resist, notwithstanding his being ill treated.

A Loyal Mouth, is an Excellent Mouth, of the nature of fuch Mouths as we call Mouths with a full rest upon the

hand.

L U M P of Flesh. See

Bouillon.

LUNETTE; A Half Horse-shoe, so called; being a Shoe without the Spunges, (the Part of the Branches that runs towards the Quarters of the Foot being so call'd.) Your Horse has false Quarters; if he is to ride in the Manage, you must shoe him with a Lunette Shoe: But if you design him for the Country, Panton Shoes are the fittest for him.

Lunettes of a Horse, are two small pieces of Felt made round and hollow, to clap upon the Eyes of a vicious Horse that's apt to bite, and strike with his Fore-seet, or that will not suffer his Rider to Mount

him.

#### M.

or Chinks on the Bending or Joint of a Horse's Knee, which sometimes suppurate. When these Chops appear in the Bending of the Hough, they are call'd Sclenders.

MALTWORM. See

Crepance.

MANAGE, is a Word that signifies not only the Ground set apart for the Exercise of Riding the Great Horse, but likewise the Exercise it self.

The Manage, or Ground proper for managing Horses, is fometimes a covered place, as in your great Academies, for continuing the Exercise in badWeather; fometimes'tis open, in order to give more liberty and pleasure both Horse and the Horse-man. One way or other we always suppose a Center in the middle of the Manage, for regulating the Rounds or Volts. Sometimes this Center is distinguish'd by a Pillar fix'd in it, to which they tyethe Horses that are beginning to learn. Upon the fides of the Manage other Pillars are placed, two by two, in order to teach Horses to raise the Forequarters, by tying them with Ropes. See Pillar.

Manage or Exercise of a Horse, is a particular way of working or riding him. Make your Horses work upon the Air and the Manage that you us'd to pur'em most to. This Horse is not yet capable of the Manage. There's a regular exactness and method in the Manage of that Barb, he'll work at what Manage you will.

A Horse is said to Manage when he Works upon Voltsand

Airs

Airs, which supposes him broke and bred. Such a Horse manages well upon Corvets; he manages well upon Caprioles; he manages well, and at equal distances from the Center, or the Pillar that represents it, in the middle of the Manage-Ground.

To Manage a Horse upon a Terra à Terra. Since this Horse manages fo well, he'll passage well from a Walk or a Trot, and will gallop well upon two Treads, and will have less trouble if he gallops one Haunch in. Make your Horse manage upon Corvets.

A Horse is faid to be thoroughly managed, or a Finish'd Horse, (in French, Acheve) that is well broke, bred, and confirm'd in a particular Air, or Manage. Here are two Horses but just initiated; but this third Horse is Acheve, for he behaves well upon the hand and the heels, he's well put upon the Haunches, and works perfectly Terra à Terra.

High-manage, is the high or rais'd Airs, which are proper for leaping Horses.

Airs.

Manage for a Soldier's Horse, is a Gallop of unequal swiftness, but so, that the Horse

changes hands readily.

MANE (in French, Criniere) is the Root of the Hair that grows on the upper part of the Neck. I like your Roussin, or your thick-bodied ftrong Dutch Horse, for he has a Narrow

Mane; and mine, which I do not like, has a Broad Mane like a Coach-horse: And you know very well, that these Broad Manes are generally very mangy, unless great care be taken

to prevent it.

Mane-sheet, is a fort of Covering over the upper part of a Horse's Head, and all round his Neck, which at one end has two holes for the Ears to pass. through, and then joins to the Halter upon the fore-part of the Head, and likewise to the Surcingle, or Long-girth upon the Horse's Back. This Querry follows the English Custom, in giving his Horfes Mane-Cloths all Winter, for in France they are scarce made use of.

MANGER is a little rais'd Bench under the Rack in the Stables, made hollow for receiving the Grain or Corn that aHorse eats. This Horse has the Tick, he ticks upon the Man-

ger.

MARE. A Stud-Mare, or Mare for Breed, is one that either is with Foal, or is defign'd to be cover'd, in order to raise a Breed or Race of Horses.

MARK. A Horse Marks, that is, he shews his Age by a Black Spot call'd the Bud or Eye of a Bean, which appears about five and a half in the Cavity of the Corner-Teeth, and is gone when the Horse is eight years old; then he ceases to mark, and we fay, he has raz'd. See Teeth and Rafe.

Falfe-

False-Mark'd; i. e. Counter-

mark'd.

MARTINGAL, is a Broad Strap made fast to the Girths under the Horse's Belly, and runs between the two Legs, to fasten its other end under the Nose-band of the Bri-Confidering that your Horse has no Appui or Stay upon the hand, but toffes up to the Wind, give him a Martingal, that will keep him from beating upon the hand. A great many confound a Martingal and

a Plate-Longe.

MASTIGADOUR. or Slabbering-bit, is a Snaffle of Iron, all smooth, and of a piece, guarded with Pater-nosters, and compos'd of three halfs of great Rings, made into Demi-ovals of unequal bigness, the lesser being inclosed within the greatest, which ought to be about half a Foot high. A Mafligadour is mounted with a Head-stall and two Reins. Now the Horse in champing upon the Mastigadour keeps his Mouth fresh and moist, by virtue of the Froath and Foam that he draws from his Brain. To put a Horse to the Mastigadour, is to set his Croupe to the Manger, and his Head between two Pillars in the Horses that use to Stable. hang out their Tongue, can't do it when the Mastigadour is on, for that keeps their Tongue To much in subjection, that they can't put it out.

MES-AIR, is a Manage

half Terra à Terra and half Corwet.

MESMARCHURES.

See Pastern.

MIDDLING-TEETH of a Horse, are the Four Teeth that come out at Three Years and a half, in the room of other four Foal-teeth, feated between the Nippers and the Cornerteeth; from which Situation they derive the Title of Middling. There's one above, and one below on each fide of the Jaws. See Teeth.

MOLTEN-GREASE is a Fermentation or Ebullition of Pituitous and Impure Humours which precipitate and difembogue into the Guts, and oftentimes kill a Horse. This Difease does not commonly feize upon any but very Fat Horses over-rid in hotWeather. Mr. Solleysel has an excellent Remedy against it in his Com-

pleat Farrier.

MONTER a dos, or a Poil; a French Expression, fignifying to mount a Horse bareback'd, or without a Saddle.

MONTOIR, or Horfe-Block, is a Word deriv'd from Italy, where the Riding-Masters mount their Horses from a Stone as high as the Stirrups, without putting their Foot into the Stirrup. Now in France no fuch thing is us'd; but yet the Word Montoir is there retain'd, and fignifies the Poise or Rest of the Horse-man's leftfoos

foot upon his left Stirrup. Hence Pied de Montoir fignifies the Left or the Nearfoot.

MOON-EYES: A Horfe is faid to have Moon-eyes, when the Weakness of his Eyes increases or decreases according to the Course of the Moon, so that in the Wane of the Moon his Eyes are muddy and troubled, and at New Moon they clear up; but still he's in danger of losing his Eye-fight quite.

MORE's Head implies the Colour of a Roan-Horfe, who befides the mixture or blending of a Gray and a Bay, has a Black Head, and Black Extremities, as the Mane and Tail. See

Roan.

MOTION. This Horse has a pretty Motion. This Expression implies the freedom of the Motion of the Fore-legs, when a Horse bends 'em much upon the Manage. But if a Horse trots right out, and keeps his Body itraight, and his Head high, and bends his Fore-- legs handfomely, then to fay he has a pretty Motion with him, implies the liberty of the Action of the Forehand.

nacles, is an Instrument, com- is a Mouth that is not at all fenmonly of Iron, composed of fible, though the Parts look two Branches, join'd at one well, and are all well form'd. end with a Hinge, for the use This Horse has no Mouth; he's of the Farriers, who take hold without a Mouth. This Mouth of a Horse's Nose with it, and is ticklish, i.e. the Horse is too keep it tight, by bringing to, fearful of the Bitt. You must

or almost closing the other end of the Branches, and fo tying em with a Strap. This they do to hinder a Horse to struggle and tofs, when they make any Incision upon him, or give the Fire. Some Mourailles are made of Wood, with a Screw, and this fort is indeed very

good.

MOUTH of a Horse: The Compliance and Obedience of a Horse is owing partly to the tender or quick sense of his Mouth, which makes him afraid of being hurt by the Bitt; and partly to the Natural Disposition of his Members, and his own inclination to obey. Put your Horse back, and by that means you may judge in some measure of the submission and tenderness of his Mouth. The Mouth is call'd fenfible, fine, tender, light and loyal. Your Horse has so fine a Mouth, that he stops if the Horse-man does but bend his Body backwards, and raife his hand, without staying for the Pull or Check of the Bridle. A Mouth is faid to be fix'd and certain, when a Horfe does not chack or beat upon the hand. A Fresh Foaming Mouth. A ftrong desperate MOURAILLE, or Bar- spoil'd Mouth. A False Mouth

D 3

fix the Ticklish Mouth of this Horse with a Canon-mouth a Trompe, i. e. all of one piece, only knee'd in the middle; or rather with good Lessons, without which the Canon-mouth will not have its effect. You do not know how to preserve your Horse's Month; you check him too much. See Bitt, or Bitt-mouth.

A Mouth of a Full Appui, or rest upon the hand, is one that has not the tender nice tente of iome Fine Mouths, but nevertheless has a fix'd and certain rest, and suffers a hand that's a little hard, without chacking or beating upon the hand, without bearing down, or relifting the Bitt, infomuch that he'll bear a Jerk of the Bridle, without being much mov'd. If you go to the Army, provide your felf a Horse with a Mouth that bears a full rest upon the hand; for if you take one of a fine nice tender Mouth, and another Horse comes to shock or run against him in a Fight, he'll be apt to rife up upon his two hind-feet, which a Horse of a harder Mouth would not do. See Appui.

A Mouth that bears more than a full rest upon the hand, implies a Horse that does not obey but with great dissipulty. You will not readily stop this Horse, for his Mouth is above a full Appui upon the hand. See

Appui.

MUSEROLE. See Nose-

N.

AG; little Nag, or Tit, (in French, Bidet) is a Horse of a small low Size. France produces a great many admirable Bidets, which travel and endure satigue better than

all your large Horses.

NAILS of the Bridlehand. The different Polition, or Situation of the Nails of the left Hand of the Horseman, give the Horse a Facility of changing hands, and form his Departure and Stop; by reason that the Motion of the Bridle follows fuch a Polition of the Nails. To give a Horse head, you must turn the Nails downwards; to turn the Horse to the right, you must turn them upwards, moving your hand to the right. To change to the left, you must turn the Nails down, and bear to the left: To stop the Horse, you must turn them upwards, and lift up or raise your Hand.

Nails in the street, is a common Expression, pointing to the Wound receiv'd by a Horse in the streets, by setting his soot accidentally upon a Nail, which being planted with the Point up, sometimes runs thro' the Sole, and reaches to the Cossin-Bone, and makes the Horse lame. Your Horse has got a Street-nail that will keep him

lame long enough.

NAR-

NARROW; a Horse that narrows, is one that does not take Ground enough, that do's not bear far enough out to the one hand or to the other. Your Horse narrows too much; to enlarge him, you must assist him with the infide Rein; that is, you mult carry your hand to the outfide, and prefs him forward upon strait Lines with the Calves of your Legs. Since your Horse widens too much, you must narrow him, not only in turning him, but likewise in keeping him under, or subject. If he narrows too much, affift him with the Calves of your Legs; nay, prick him, and then bring to with the Out-Spur; that is, the Heel contrary and opposite to the Ground he has quitted, and ought to regain.

NECK of a Horfe. Your Horfe's Neck is charged with Flesh, he has a Cock-thropled Neck, a false Neck, a thick Neck. Such a Horse has a fine well-shap'd rising Neck. I see in your Horse's Neck the Feather which we call the Roman Sword. A sleshy Neck; a Neck with the Flesh hanging down on one side. A Mare's Neck; i.e. too slender and fine, and but little Flesh upon it. See Carry well, Carry low.

NEIGHING is the Cry of a Horse. Such a Horse neighs.

NIPPERS are Four Teeth in the Fore-part of a

ngus

Horse's Mouth; two in the upper, and two in the lower Jaw. A Horse puts'em forth between the second and third Year. See Teeth.

Nippers. Smiths or Farriers Nippers, (in French, Tricoisses) are the Pincers with which they cut the Nails they have drove in, before they rivet 'em; and which they use in taking off a Shooe.

NOSE-BAND, (Muserolle) is the part of the Headstall of a Bridle that comes over a Horse's Nose. Since your Horse beats upon the hand, clap a Martingale to his Nose-Band.

NOUER L'Eguillette. See Terk.

# 0.

OBEY; A Horse is said to obey the Hands and the Heels, to obey the Aids or Helps; i.e. to know and answer 'em according to demand. Such a Horse obeys the Spurs; i.e. he slies from them.

OSSELET, is a very hard Excrescence, resembling a little Bone, on the inside of the Knee, (and never on the outside) appearing to be of the same substance with the rest of the Knee, and only distinguishable from the Knee by its descending a little lower.

OVER-DONE, Overrid, or Over-work'd; (in French, D 4 Outre) Outre) A Horse is so call'd, when his Wind and Strength are broke and exhausted with Fatigue. An incurable pursive Horse is called in French, Poussiff Outre, i. e. Over-done Pursive.

To Over-work a Horse in the Manage, is call'd, Estrapasser.

OVER-REACH; A Horse is said to over-reach, when he brings his hinder Feet too far forwards, and strikes their Toes against the Spunges of the Fore Shoes. A Horse over-reaches thro' a Weakness in the Back, or by being suffered to bear too much upon the Shoulders.

OUT, Outside; Without.

See In.

### P.

are two Cushions, or Bolsters, fill'd with Cow's, or Deer, or Horse Hair, and placed under the Saddle, one on each side, touching the Horses Body; to prevent the Bows and Bands to gall or hurt his Back.

PANTON-SHOE, is a Horse-shoe contrived for recovering narrow and hoofbound Heels; which has Spunges much thicker on the intide than on the outside; so that the part that rests upon the Horn or Hoof runs slope-wise, to the end that the thickness of the inside of the Shoe may bear up the Heel, and throw or push it to the outside. Panton-Shoes are likewise for such Horses as have false Quarters.

PARE; to pare a Horse's Foot, is to cut his Nails; that is, the Horn, and the Sole of his Foot, with a Butteris, in This Foot order to fhoe him. is well par'd; 'tis par'd without touching the quick. England, the Smith or Farrier holds the Foot of the Horse between his Knees, and in that very posture pares the Foot, fets on the Shoe, drives the Nails, and rivets 'em; and this all alone, without any Affistance from the Groom.

PARER, a French Word us'd in former times in the A-cademies, implying, to ftop: But at present 'tis exploded. And when the Riding-Masters have a mind the Scholar should stop the Horse, they call out, Holas. See Stop, and Half-

Stop.

PART, or Depart; (in French, Partir) a Word us'd in the Academies to fignify the Move and Action of a Horse, when put on at speed. Brisk up your Horse when you part. You have no grace in your Parting. If this Horse does but part, or take the Departure with promptness, he has a very just stop. From the Horse's Parting to his Stop there's two hundred Paces of Ground. This Horse parts

upon

upon the hand very handsomely. To make your Horse part with a good grace, (i.e. to give him head) you must put your Bridle three singers lower, and press gently with your Heels, or only with the Calves of your Legs. See Echaper.

To Part again. See Re-

part.

PASSADE, is a Tread or Way that a Horse makes oftner than once upon the fame Extent of Ground, passing and repalling from one end of its length to the other: Which can't be done without changing the hand, or turning and making a Demitour at each of the Extremities of the Ground. Hence it comes, that there are feveral forts of Passades, according to the different ways of turning, in order to part or put on again, and return upon the same Pifte, or Tread; which we call Clofing the Passade. See Close, and Serrer.

Demivolt of five times; is a Demivolt of five times; is a Demitour made at the end of the straight Line, one Hip in, in five times of a Gallop upon the Haunches; and at the fifth time, ought to have clos'd the Demivolt, and to present upon the Passade-line straight and ready to return. The Demivolts of five Times or Periods, are the most common Airs of changing the hand, or turning, that are practis'd in the Acade-

mies.

Furious Passades, (i. e. upon a full Career) or French Palsades, are such as are in Duels. To make these Passades, you put your Horse straight forwards, and towards the extremity of the Line make a Halfstop, keeping the Horse straight without traverfing; then you make the Demivolt at three times, in fuch a manner, that the third time the Horse prefents straight upon the Passadeline, and ready to let out again upon a short Gallop. You continue this short Gallop half the length of the Passade; then you put on furiously at full speed, and at the end of the Passade mark a Half-stop, and then a Demivolt of three times. This you continue to do, as long as the Horses Wind and Strength will hold. This Paffade at full speed supposes that the Horse has an excellent Mouth, and requires Strength and Agility both in the Horle and Horleman. There are but few Horles that are capable of it. 'Tis faid, that Monlieur de Belleville, one of the French King's Querry's, and a famous Master of the Art of Riding, was the first that christen'd these Pasfades with a full Career, by the name of Passades a la Françoise, i. e. Passades after the French way.

Passade of one time; A Passade in Pirouette, or half Pirouette, of one time; is a Demivolt, or Turn made by the

Horse,

Horse, in one time of his Shoulders and Haunches. To make this Passade, which is the perfecteft of them all, the Horse should stand straight upon the Passade-line; and then putting forwards, he forms a Half-stop, making falcades two or three times in such a manner that he is still straight upon the Line; and at the last time he prepares to turn nimbly, and retain or fix his Haunches as a Center, fo that the Demivolt is perform'd in only one time of the Shoulders; and tho' the Haunches make likewife a time, they make it in the Center, or upon the same spot and de ferme à ferme, as the French call it.

The Rais'd or High Passades, are those in which the Demivolts are made in Corvets.

In all Passades, the Horse should, in making the Demivolt, gather and bring in his Body, making his Haunches accompany his Shoulders, without falling back, or not going forward enough each time: And he should go in a straight Line, without traverling or turning his Croupe out of the Line.

PASSAGE; to passage a Horse, is to make him go upon a Walk or Trot upon two Pistes or Treads, between the two Heels and fide-ways; fo that his Hips make a Tract parallel to that made by his Shoulders. 'Tis but of late

, SINGLE

that Passaging upon a Trot has been us'd; for formerly the word Passage fignified walking a Horse upon two Treads between the two Heels. A Horse is passaged upon two straight Lines, along a Wall or Hedge. He is likewise passaged upon his own length upon Volts, in going fide-ways upon a Circle round a Center, the Semidiameter being about his own length: So that he looks into the Volt, and half his Shoulders go before the Croup. In all Passaging, the Horse's outward Fore-leg must cross or lap a great deal over the other Fore-leg, at every fecond time that he marks. In a Passage of a Walk, and that of a Trot, the Motion of the Horse is the fame; only the one is swifter than the other. See Haunch in,

and Length.

Passage upon a straight Line. is a fort of Manage practis'd but little in France, but very much in Italy, and yet more in For this Manage. Germany. they chuse a Horse that is not fiery, but has a good active Motion with him, and leading upon a straight Line upon a Walk or Trot, teach him to lift two Legs together, one before, and one behind, in the form of a St. Andrew's Crois; and in fetting thefe two to the Ground to raise the other two alternately, and keep 'em a long while in the Air; and that in fuch a manner, that at

every

every time he gains a foot of Ground forwards. The Beauty of Passaging, consists in holding the Legs long in the Air. The Motion of the Legs in this Passage, is the same with that of a Walk or a Trot; for they go in the same Order, and the only difference is, that in passaging upon a straight Line the Legs are kept longer in the Air. Your proud stately Horses, and those which are accultom'd to this fort of Passage, are proper for a Carousel, or a Magnificent Shew. The difference of a proud stately Prancing, (in French, Piaffer) and Pallaging, confifts only in this, that your stately Hories do the former naturally, and do not keep their Legs fo long in the Air, as in passaging right out. But for a Passage, there's so much Art requir'd, that a Horse is two or three Years in Breeding to that Manage; and of fix Horses, 'tis very much if two of 'em succeed in it.

PASTERN-JOYNTor Fetlock of a Horse's Leg, is a Joynt above the Pastern, which serves for a second Knee in each Fore-leg, and a second Ham or Hough to each Hinder-leg. The Fetlock is apt to be cut by the side of one of the Shoes; and when that happens, we say, a Horse cuts, or interferes. This Sorrel's Fetlock is inflam'd and swell'd. Upon that Horse, I see a Wind-gall by the Fetlock.

Sprains happen upon the Fetlock; and Cratches happen above the Fetlocks behind.

PASTERN of a Horse. is the lower part of the Leg between the Fetlock or Pastern-Joint and the Cronet. A Horse is short-jointed or long-jointed. according to the shortness or length of the Pastern; and the short-jointed is the best. - All the Horses in this Stable are out of order in the Pasterns. You see there Crown-scabs, Cratches, Clefts, Watery Sores, Warts, Crepances, Ring-bones; and in fine, there is not one of 'em that has a found clean Pastern; nay some of 'em are gall'd with their Locks or Fetters.

Wrenches of the Pastern are call'd in French, Entorses and Mesmarchures. You must give the Fire to this Entorse, for the Horse is quite lame, and 'tis in vain to try any other Remedies.

PATIN-SHOOE, a Horse-Shooe so call'd, under which is folder'd a fort of halfball of Iron, hollow within: 'Tis us'd for Hip-shot-horses, and put upon a Sound Foot, to the end that the Horie not being able to itand upon that Foot without Pain, may be constrain'd to support himself upon the Lame Foot, and fo hinder the Sinews to fhrink, and the Haunch to dry up. We likewife clap Parin-shoes upon Horses that are sprain'd in the Shoulders.

PAW the Ground. AHorse Paws the Ground, when his Leg being either tired, or painful, he does not rest it upon the Ground, and fears to hurt himfelf as he walks.

PEACH-Colour. See Blof-

Som.

PESATE, or Pesade, or Posade, is the Motion of a Horse that in lifting or raising his Fore-quarters, keeps his hindlegs upon the Ground without flirring, so that he marks no time with his Haunches, till his Fore-legs reach the Ground. This Motion is the true Means to fix his Head and his Haunches, to make him ply and bend his Fore-thighs, and to hinder him to stamp and clatter with his Feet. If you defign to put your Horse to Corvets, make Pesates his first Lesson, for Pefates are the foundation of all See Stop and Half-Airs. Stop.

PIAFFEUR is a proud stately Horse, who being full of Mettle, or Fire, reltless and forward, with a greatdeal of Motion and an excessive eagerness to go forwards, makes this Motion the more that you endeavour to keep him in, and bends his Leg up to his Belly: He fnorts, traverses if he can, and by his Fiery Action thews his restlessness: Whence some, though very improperly, fay, he dances. Such Horses as these, or such as are bred to pasfage upon a straight Line, are.

much admir'd in Caroufels and Magnificent Festivals. See Snort

and Passade.

PICKER; Horse-picker is an Iron Instrument, five or fix Inches long, bent or crooked on one fide, and flat and pointed on the other, us'd by the Grooms to cleanse the inside of the Manage Horses Feet, and to pick out the Earth and Sand that's got into 'em. Since your Horses are but just come from the Manage, you should order your Groom to take the Horfepicker and pick out the Dust that dries up their Feet, and that done, to clap Cows-dung into 'em, to keep 'em moist, and prevent their having False-

quarters.

PIERCE a Horse's Shooe, Lean and Fat: To pierce Lean, is to pierce it too near the edge of the Iron: To pierce it Fat, is to pierce it further in. You have pricked my Horse, because the Shooe was pierced too fat. This Horse's Shoe has made all the Hoof below the Rivet to split, for 'was pierced too lean. This Farrier pricks the Horses upon the Anvil; that is, he does not pierce his Shoes right, for in striking the Nails through holes that are pierced fometimes too fat, and fometimes too lean, or too near the Quarter, he always pricks the Hories.

PILLAR: Most great Manages have a Pillar fixed in the middle of the Manage-Ground, Ground, to point out the Center: But all Manages in general have upon the fide or circumference other Pillars, plac'd two and two at certain distances; from whence they are call'd the two Pillars, to distinguish 'em from that of the Center. When we speak of the latter, we call it working round the Pillar; and when we refer to the other two, we call it working between the two Pillars.

The Pillar of the Center ferves to regulate and adjust the extent of Ground, to the end that the Manage upon Volts may be perform'd with method and justness, and that they may work in a Square by rule and meafure upon the four Lines of the Volt, which ought to be imagin'd at an equal distance from the Center. It serves likewife to break unruly high-Mettled Horses, without indangering the Rider; the Horse being tied to a long Rope, one end of which is made fast to the Pillar, and managed by a Man plac'd by the Pillar, which keeps the Horse in subjection, and hinders him to fly out. To break fuch an unruly fiery Horse, and make him go forwards, put the Cavesson upon him, and make fast the Rope to the middle Ring, and to the Pillar, trot him round the Pillar without any person on his back, and fright him with the Shambrier or Rod, that he may

know it, and fly from the least appearance of a Blow. This done, you may mount him round the Pillar, and put him on, fo as that he shall not be able either to rear up, or to stop in order to do mischief; for the dread of the Shambrier will prevent all Diforders, and hinder him to ftop. The Duke of Newcastle says this is the only case in which the use of the Pillar should be suffer'd; for in general he's fo far from approving of the Pillar, that he affirms it only spoils Horses, because round it they only work by roat, and having their Eyes always fix'd upon the fame Objects, know not how to manage ellewhere, but instead of obeying the hand and the heels, know nothing but the Rope and the Shambrier. In fuch Manages as have not this Pillar, you must imagine a place where it should be; that is, you must consider the middle of the Ground as a Center, in order to regulate and facilitate Manages upon Rounds. See Rope and Ropes.

The Two Pillars are placed at the distance of two or three Paces, the one from the other. We put a Horse between these, with a Cavesson of Leather or Cord, mounted with two big Ropes that answer from the one Pillar to the other. You must ply your Horse with the Cavesson Ropes, and make him rise between the two Pillars; when

once he has got a habit of curveting with eafe, he'll give you a good feat on horfeback, and by the liberty of his Pofture, make you keep the Counterpoife of your Body, and teach you to stretch out your Hams. Put this Horse between the two Pillars, to teach him to rife before, and when that's done, you'll eafily teach him to yerk out behind, and put himself upon rais'd Airs, either by the Aids, or by the Chastisement of the Shambrier. Nay, if there be occasion, you may make use of the Switch, the Poinfon, the Hand, and the Spurs.

Tract that a Horse makes upon the Ground he goes over. This Horse-man observes the Piste, he makes it his business to follow the Tread; that is, he follows his Ground regularly, without enlarging or narrowing, without traversing or entabling. Such a Horse works well upon two Treads; he works well with one Piste.

PLANTED-COAT.

See Hair-staring.

PLAT - VEINS; (in French, Ars) are the Veins in which we bleed Horses, one in the lower part of each Shoulder. When we blood a Horse in the Shoulders, and in the slat part of the Thighs, the Vulgar People cry, He's bled in the four Plat-veins: But 'tis a mistake, instead of saying,

he's bled in all his Four

limbs.

PLATE-LONGE, is a Woven Strap, four Fathom long, as broad as three Fingers, and as thick as one; made use of in the Manage for raising a Horse's Legs, and sometimes for taking him down, in order to facilitate several Operations of the Farrier. Some improperly give the name of Platelonge to a Martingal.

PLUNGE. See Estra-

pade.

POIL; Souffler au Poil, i.e. to run upon the Hair or Skin. A French Expression, us'd when a Horse has a prick with a Nail, and for want of being sufficiently open'd underneath, the Matter or Impossible underneath, the Matter or Impossible and the Cossin-bone; and rising above the Cossin, gains the Hair, insomuch that it appears at the Cronet. See Hair.

POINSON, is a little Point or Piece of sharp-pointed Iron, fix'd in a wooden Handle, which the Cavalier holds in his right Hand, when he means to prick a Leaping Horse in the Croupe, or beyond the end of the Saddle, in order to make him yerk out behind. Put this Horse between two Pillars, and give him the Aids of the Poinson. This Horse obeys the Poinson.

POIRAU. See Wart.
POINTS, or Toes of a
Bow of a Saddle. See Bows.

Point; A Horse is said to make a Point, when in working upon Volts, he does not observe the Round regularly, but putting a little out of his ordinary Ground, makes a sort of Angle or Point by his Circular Tread. Your Horse does not make Rounds well; he makes Points. You should prevent it by hastening your

hand. See Hasten.

PONTLEVIS, is a disorderly resisting Action of a Horse, in disobedience to his Rider; in which he rears up feveral times running, and rifes so upon his Hind-legs that he's in danger of coming over. Your Horse makes very dangerous Pontlevis's; and confidering he is but a weak Horse, a little Resting upon the Bridle would bring him over. This Colt refisted, and was disobedient a long time; and his Defence was to make great Pontlevis's: But, knowing he had strength, I took the time when his Fore-feet were returning to the Ground, and clapt my Spurs fmartly to him, which broke him at last. Such a Horse doubles his Reins, and makes a Pontlevis.

PORT E-Etrier. See

Stirrup.

PORTER, (to carry) us'd in the French Manage for directing or pushing on a

Horse at pleasure; whether forwards, upon turns, &c.

POSADE. See Pe-

fate.

PRESS upon the hand. A Horse is faid to resist, or press upon the hand, when either thro' the Stiffness of his Neck, or from an ardour to run too much in Head, he stretches his Head against the Horseman's Hand, refuses the Aid of the Hand, and withstands the Effects of the Bri-My Horse who has a thick flethy Neck, lyes very heavy upon the hand; but yours, who has too much fire, presses upon the Hand. If your Horse is too fiery, and presses upon the Hand, endeavour to pacify him, by making him go more foftly, and pulling him backwards, If it proceeds from a Stiffness of the Shoulders and Neck, you must fupplehim with a Cavellon made after the Duke of Newcastle's. way. See Heavy.

To Press, or push a Horse forwards, is, to affish him with the Calves of your Legs, or to spur him to make him go

on.

PRESTESSE; (a French Word, fignifying Readiness,) us'd in the Academies, to import the Diligence of a Horse in working in the Manage.

PRICK, or Pinch, (in French, Pincer) is, to give a Horse a gentle Touch of the Spur, without clapping them hard

hard to him. Prick with the right, pinch with the left, pinch with both. To prick or pinch is an Aid; but to appuyer, or bear hard with the Spur, is Correction.

Pricking of a Horse's Foot, is the Hurt receiv'd by a Nail drove too far into the Foot, so as to reach the quick, or press the Vein in the Horse's Foot when he's

fhod. See Pierce.

PUNCH; a well-set; well-knit Horse; (in French, Goussaut) is short-back'd, and thick-shoulder'd, with a broad Neck, and well lin'd with slesh. Of all the Baggage-Waggons and Carts of the Army, I see none better drawn than yours; for the Thill-Horse, and the Fore-Horse, are strong well-set Horses.

PURSYNESS, or Alteration of the Flank; is an Oppression that deprives a Horse of the Liberty of Respiration; and proceeds from some Obstruction in the Passages of the Lungs. Pursyness is a Capital and Essential Fault; so that the Seller of the Horse stands obliged to warrant him free from Pursyness, or to take him again within nine Days after sale. See Warrant, and Wind.

PUT, (in French, Mettre) is us'd for the Breaking, or Managing of a Horse: As, Put your Horse to Corvets, Put him upon Caprioles. This Horse puts, and presents him-self upon Rais'd Airs. Such a Horse was not well put at first. There's a Barb very well put.

To Put a Horse upon his Haunches, (in French, Asserir) is, to make him bend em in Galloping in the Manage, or upon a Stop. See Haun-

ches.

To Put a Horse to the Walk, Trot, or Gallop; is to make him walk, trot, or gallop.

To Put a Horse under the

Button. See Button.

PYEBAL'D Horse, is one that has White-Spots upon a Coat of another Colour. Thus there are Pyebal'd Bays; Pyebal'd Sorrels, and Pyebal'd Blacks; and so of the rest.

PYROET. Some are of one Tread, or Pifte; some of two. Those of one Tread are otherwise call'd Pirouettes de la

tete a la queue.

Pyroets de la tete a la queue, are entire and very narrow Turns made by the Horse upon one Tread, and almost in one time, in fuch a manner, that his Head is plac'd where his Tail was, without putting out his Haunches. To make Horses take this Pyroet with more facility, they use in the Manage to put 'em to five or fix of 'em all running, without stirring off. the Spot. In Duels they are of ufe to gain the Enemy's Pyroettes? Croupe.

Pyroettes of two Pists or Treads, are Turns of two Treads upon a small compass of Ground, almost of the length of the Horse. This Horse makes his Pyroette of two Pists very readily, for he turns short and narrow, and keeps his Haunches low and well set.

Pyroette of one Time, or Demi-pyroette of one Time, or Passade of one Time. See

Passade.

## Q.

Q UARTER. To work from Quarter to Quarter, is to ride a Horse three times in end upon the first of the four Lines of a Square; then change your hand, and ride him three times upon the second: At the third time change your hand, and so pass to the third and fourth, observing the same order.

QUARTERS of a Saddle, are the pieces of Leather or Stuff made fast to the lower part of the sides of a Saddle, and hanging down below the Saddle.

Quarters. Fore-quarters and Hind-quarters. The Fore-quarters are the Shoulders and the Fore-legs: The Hind-quarters are the Hips and the Legs behind. The two Quarters of this Horse are equally weak.

Quarters of a Horie's Foot, are the fides of the Coffin, com-

prehended between the Toe and the Heel on one side and tother of the Foot. The Inner-quarters are those opposite to one another, facing from one Foot to the other; and these are always weaker than the Outside-quarters, which lie on the external sides of the Coffin. See if your Horse has not got False-quarters.

Quarter-cast. A Horse is said to cast his Quarter, when for any Disorder in the Cossin we are obliged to cut one of the Quarters of the Hoof: And when the Hoof thus cut grows and comes on anew, 'tis call'd in French, Quartier neuf; i. e.

New Quarter.

False-Quarters, (in French, Seime) is a Cleft in the Horn of a Horse's Quarters, extending from the Gronet to the Shoe, which voids Blood, and occasions a great deal of Pain, and makes the Horse lame. Your Horse has a False-quarter, shoe him with Pantosse-Shoes, and keep his Foot fat and easie. See Picker, and Lunettes.

QUITTER-BONE.

See Cratches.

## R.

RAGOT, is a Horse that has Short Legs, a Broad Croupe, and a Strong Thick Body; differs from a Goussaut in this, that the latter has more Shoulders, and a thicker Neck.

E

RAISE:

RAISE: To raise a Horse upon Corvets, upon Caprioles, upon Pesades, is to make him work at Corvets, Caprioles, or Pesades. Sometimes we say, Raise the Fore-hand of your Horse. Be sure always to raise your Horse's Fore-quarters, after a stop form'd.

Raiseislikewiseus'd for placing aHorse's head right, and making him carry well, and hindring him to carry low, or to arm

himfelf.

RAKE. A Horse Rakes when being shoulder-splait, or having strain'd his Fore-quarter, he goes so lame, that he drags one of his Fore-legs in a Cemicircle; which is more apparent when he trots, than when he

paces:

RAMINGUE. A Horse call'd in French, Ramingue, is a resty fort of Horse that resists the Spurs, or cleaves to the Spurs; that is, defends himself with Malice against the Spurs, sometimes doubles the Reins, and frequently yerks to favour his Disobedience. See Ticklish, and to Double.

RAMPIN. See Toe.

RASE: To Rase or glance upon the Ground (razer le tapis) is to gallop near the Ground, as our English Horses do. This Horse does not rise enough in his Gallop, he does not raise his Fore-quarters high enough, he goes but coldly, his Motions are too near the Ground; he gallops like an English Horse,

RAT-TAILS, or Arrests, fignifie callous hard Swellings upon the hinder-legs under the Hough, running along the Sinew.

Rat-tail; a Horse is so call'd when he has no Hair upon his

Tail.

RAZE. A Horse razes, or has razed; that is, his Cornerteeth cease to be hollow; so that the Cavity where the Black Mark was, is now filled up, the Tooth is even, smooth and raz'd, or shav'd, as'twere, and the Mark disappears. Your Horse has raz'd, and does not mark no more; from whence we conclude that he has almost enter'd into his eighth Year. See Teeth.

REAR up; (in French, Cabrer) is faid of a Horse that rises upon his hinder-legs as if he would come quite over. This Horse has a Mouth too sensible, and rises before; if you cleave to the Bridle but never so little, he rises on his hinder-legs, and isin danger of

coming quite over.

REINS are two Straps of Leather meeting in the Horseman's Bridle-hand, in order to make the Bitt bear, and keep the Horse subject. As soon as you are on Horseback hold your Reins even, and rest your Thumb upon both of 'em, keeping them separated by your Little singer. The Duke of Newcastle bestow'd the Name of Reins upon two Straps or Ropes.

Ropes of a Cavesson, which he ordered to be made fast to the Girths or the Pommel of the Saddle, with intent that the Rider should pull em with his hand, in order to bend and supple the Neck of the Horse.

ther pass'd sometimes through the Arch of the Banquet, to bend the Horse's Neck: The Duke of Newcastle disapproves the use of it, and says it slacks the Curb, and makes the Bitt no more than a Trench that has no Curb.

REMOLADE, or Charge.

See Charge.

REMOULIN: An old French Word, signifying a Star upon a Horse's Forehead.

RENETTE is an Instrument of Polish'd Steel, with which they found a Prick in a

Horse's Foot.

REPART, is to put a Horse on, or make him part a second time. After stopping your Horse, make him repart

straight.

REPOLON, is a Demivolte, the Croupe in, clos'd at five
times. The Italians are mighty fond of this fort of Manage.
In making a Demivolte, they
ride their Horses short, so as to
imbrace or take in less Ground,
and do not make way enough
every time of the Demivolte.
The Duke of Newcastle does not
approve of the Repolons; al-

ledging, that to make Repolons, is to gallop a Horse for half a Mile, and then to turn awkwardly, and make a false Manage.

REPRISE, is a Lesson repeated, or a Manage recommenced. To give Breath to a Horse upon the Four Corners of the Volte, with only one Reprise, that is, all with one

Breath.

RESTY: A Resty Horse; i.e. a malicious unruly Horse that shrugs himself short, and will only go where he pleases. What the French call Ramingue, has much of the Resty in him.

RETAIN; (in French; Retenir) is what we call hold, in speaking of Maresthat conceive

and hold after covering.

To RIDE is us'd for learning the Manage. As, these two Gentlemen ride under a very good Master, but the other two

ride under a Great.

RIDGES, or Wrinkles of a Horse's Mouth, are the Risings of the Flesh in the Roof of his Mouth, which run across from one side of the Jaw to the other, like Fleshy Ridges, with interjacent Furrows, or sinking Cavities. Tis upon the third or fourth Ridge that we give the Stroke with the Horn, in order to blood a Horse whose Mouth is overheated.

RING-BONE, is a Hard Callous Swelling in a Horse's Pasterns, which of-

tentimes

tentimes makes him very

RIPOSTE, is the Vindictive Motion of a Horse that answers the Spur with a Kick

of his Foot.

of the Nail that rests or leans upon the Horn when you shoe a Horse. The Rivets of the Nails that you have drove into my Horse are too great, and will certainly cut him; besides, the Nails are so thick plated, that the Rivets by their bigness and weight will carry off the Hoof. Trie him once more with Limoge Nails, that the Rivets may be smaller. See Pierce.

ROAN: A Roan Horse is one of a Bay, Sorrel, or Black Colour, with Grey or White Spots interspers'd very thick. When this Particolour'd Coat is accompany'd with a Black Head, and Black Extremities, he is call'd a Roan with a Blackamore's Head; and if the same mixture is predominant upon a deep Sorrel, 'tis call'd Claret.

Roan.

R O D, (in French, Gaule) is a Switch held by the Horseman in his Right-hand, partly to represent a Sword, and partly to conduct the Horse, and second the effects of the Hand and Heels. This Horse takes the Aids of the Switch well. Since this Gentleman has a mind to make his Horse rise before, give him the Aids of the

Rod, touch him, fwitch him upon the Legs and the Counter, and then he'll up with his Forehand.

ROPE, Cord or Strap, is a great Strap ty'd round a Pillar, to which a Horse is made fast when we begin to quicken and supple him, and teach him to sly from the Shambrier, and not to gallop false or uncompactly. In Manages that have no Pillar, a Man stands in the Center of of the Ground, holding the end

of the Rope.

Ropes. Ropes of two Pillars are the Ropes or Reins of a Caveffon, us'd to a Horse that works between two Pillars. You must put your Horse to the Ropes, that the constraint of the Cavesson may make him ply his Haunches, and teach him to raise his Fore-hand. You'll never make this a good leaping Horse, unless you put him to the Ropes, and make him answer the Aids of the Poinson, in yerking with his hind-legs. See Fore-thigh.

ROUND, or Volte, is a Circular Tread. See

Volte.

To Cut a Round. See

Cut.

To Round a Horse, or make him round (arrondir) is a general Expression for all fort of Manage upon Rounds: So that to round a Horse upon trot, gallop, or otherwise, is to make him carry his Shoulders and his Haunches compactly or roundly, upon a greater or smaller Gircle,

Circle, without traversing or bearing to a side. To round your Horse the better, make use of a Cord or Strap held in the Center, till he has acquired the habit of Rounding and not making Points. In working upon Volts, you ought never to change your hand, unless it be in pressing your Horse forward, and rounding him. See Points.

ROUSSIN is a strong well knit, well stow'd Horse, fuch as are commonly carried into France from Germany and Holland; though 'tis true France it self produces some

fuch.

ROWELS of a Spur. See

Spur.

RUBICAN Colour of a. Horse is a Bay, Sorrel, or Black, with a Light-gray or White upon the Flanks, but so that this Gray or White is not predominant there.

RUN: To run a Horse is to put him to his utmost speed, i.e. a furious, quick and resolute Gallop, as long as he can hold it. Some take Running for a Gallop, but in the Academies it signifies as above.

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SACCADE, is a Jerk, more or less violent, given by the Horseman to the Horse, in pulling or twitching the Reins of the Bridle all on a sudden, and with one

Pull; and that, when a Horse lyes heavy upon the hand, or obstinately arms himself. This is a Correction us'd to make a Horse Carry well; but it ought to be us'd discreetly, and but seldom.

SADDLE, is a Seat upon a Horse's Back, contriy'd for the Conveniency of the Rider. A Hunting-Saddle is compos'd of two Bows, two Bands, Fore-bolsters, Pannels, and Saddle-straps: And the great Saddle has befides these Parts, Corks, Hindbolfters, and a Trouffequin. The Pommel is common to both. A Horieman that would fit a Horse well, ought always to fit on his Twift, and never on his Buttocks; which ought never to touch the Saddle; and whatever Diforder the Horse commits, he ought never to move above the Saddle. This Gentleman keeps his Seat well, and never lofes the middle of his Saddle. He's always well fer in the Saddle.

Saddle-Back'd; A' Horse is call'd Saddle-back'd, that is hard to sit with a Saddle. You must bespeak a Saddle on purpose for your Horse, because his Reins are low, and his Head and Neck rais'd: For all Saddle-back'd Horses have a rais'd Head and Neck, and cover a man well.

Saddle-Cafe. See Housse.

Saddle-Roll. See Trousseguin.

SAKER. See Dock.

SCABBARD, is the Skin that ferves for a Sheath or Case to a Horse's Yard. Your Horse's Scabbard is inflam'd for want of Exercise; you must take him out, and water him.

SCAB'D Heels, or Frush, is an eating Putrefaction upon a Horse's Frush; which is very hard to cure, and has

a Noisome Smell.

Scurf upon the Pasterns of a Horse, that makes the Hair

briftle and ftare.

SCATCH-MOUTH, is a Bit-Mouth differing from a Canon-Mouth in this, that the Canon is round; whereas a Scatch is more upon the Oval. That part of the Scatch-Mouth which joyns the Bit-Mouth to the Branch is likewise different; a Canon being staid upon the Branch by a Fonceau, and a Scatch by a Chaperon which furrounds the Banquet. The effect of the Scatch-Mouth is somewhat greater than that of the Canon-Mouth, and keeps the Mouth more in subjection. Commonly your Snaffles are Scatch-Mouths.

SCHOOL, or Schooling, (Ecole) is the Lesson
and the Labour both of the
Horse and the Horseman.
One of these Gentlemen has

but three Months Schooling, and the other has four. This Horse manages better upon two Months Schooling, than another would have done in fix. A School Pace, Gate, or Going, is the same with Ecoute. Which see.

S C R A T C H E S. See

Cratches.

SCREW. See Splent,

and Through-Splent.

or Situation of a Horseman upon the Saddle. Teach this Gentleman the Seat; i.e. direct him to place himself in a true posture. This Gentleman never loses his Seat. See Counterpoise.

Seat a Horse upon his Haunches or Hips. See Put.

SEEL; A Horse seels when he begins to have white Eye-brows; which happens when he's fifteen or fixteen Years old.

SELENDERS, are Chops or Mangy Sores in the Bending of a Horse's Hough, as the Malenders are in the

Knees.

SERPEGER, a French Word us'd in the Academies, to fignify the Riding of a Horse in a Serpentine way, or in a Tread with wav'd Turnings, like the Posture of a Serpent's Body. This word is now obsolete.

SERPENTINE. A Serpentine Tongue is a frisking Tongue that's always a

mo-

moving, and fometimes paffes over the Bit, instead of keeping in the void Space, call'd the Liberty of the

Tongue.

SEVIL of the Branches of a Bridle, is a Nail turn'd round like a Ring, with a large head, made fast in the lower part of the Branch, call'd Gargouille. See Banquet.

SHAMBRIER is a long Thong of Leather, made fast to the end of a Cane or Stick, in order to animate a Horse, and punish him, if he refuses to obey the Rider. To make this Horse obedient, take a Shambrier in your hand; shew it him; crack it against the Ground;

make him feel it.

SHANK of a Horse's Leg, is that part of the Foreleg that lyes between the Knee and the Fetlock, or Pastern-Joynt. Your Horse has a Thorough Splent upon his Shank. See if there is not a Fuzee (i. e. two Splents joyning to one another) on the Shank of that Sorrel. Here's a very uncommon thing upon the Shank of this Barb: He has an Arrest, or Mangy Tumor all along the Sinew of the Shank, down to the Pastern-Joynt. For commonly Arrests happen in the Hind-Quarter; and Barbs are never troubled with 'em.

SHEDDING of the Hair. See Cast.

SHEET. Horse-sheet.

See Caparasson.

SHELL-Tooth'd Horse, (in French, Raigu) is one, that from five Years to old Age, naturally, and without any Artifice, bears Mark in all his Fore-teeth; and there still keeps that hollow place, with a black Mark which we call Germe de Feve, or the Eye of a Bean: Infomuch, that at twelve or fifteen, he appears with the Mark of a Horse that is not yet fix. For in the Nippers of other Horses, the hollow place is fill'd, and the Mark disappears, towards the fixth Year, by reason of the wearing of the Tooth. About the same Age, 'tis half worn out in the Middling Teeth: And towards the eighth Year, it disappears in the Corner-Teeth. But after a Shell-Tooth'd Horse has marked, he marks still equally in the Nippers, the Midling, and the Corner-Teeth: Which proceeds from this; that having harder Teeth than the other Horses, his Teeth do not wear, and fo he does not lose the black Spot. Among the Polish, Hungarian, and Groatian Horses, we find a great many hollow-tooth'd Horses; and generally the Mares are more apt to be fuch E4

uch than the Horses, Do not you see that your Horse-Merchant is like all other Jockeys, in denying, for his own Interest, that he has any hollow-tooth'd Horses? Certainly this Runner is hollow-tooth'd; for besides that it bears Mark still in all the Fore-Teeth, it ought to have its Teeth short, clean, and white; whereas they are long, yellow, foul, and unflesh'd; which betrays his Age: And I'll lay you a Wager, that in a Year's time he will have Seel, or white Eye-brows.

SHOE of a Horse, is a piece of flat Iron with two Branches, or Wings, which being commonly forged according to the Form of the Hoof for which 'tis defign'd, is made round at the Toe, and open at the Heel. Such a Farrier has Shoes for all Feet. Now a Shoe for all Feet, is a Shoe cut at the Toe into two equal parts; which are joyn'd by a riveted Nail, upon which they are moveable, in fuch a manner, that the Shoe is enlarged or contracted, less or more, in order to fit all forts of Feet. This Horse has a brittle Foot, or a brittle Hoof; you must shoe him in the Wane of the Moon. A Fore-shoe, a Hinder-shoe: A Horie unihod before and behind. 'Tis troublesome to thoe this Horse, for his Foot

is worn, and he has gone a long time unshod. To shoe a Horse after the form of a Lunette, a Pattin, &c. See those Words.

Shoeing Hammer, is a Hammer that the Farrier makes use of, to adjust and sit the Shoes upon the Anvil, both

hot and cold.

SHORT-JOYNTED. A Horse is faid to be shortjoynted, that has a short Pastern. When this Joynt, or the Pastern, is too short, the Horse is subject to have his Fore-legs, from the Knee to the Cronet, all in a straight Line. Commonly your shortjoynted Horses do not Manage fo well as the longjoynted; but out of the Manage the short-joynted are the best for Travel or Fatigue. Your Horse is short-joynted, and boute; that is, his Legs are straight, from the Knee See Boulete, to the Cronet. and Boute.

SHOULDER of a Horse, is the Joynt in the Fore-quarters that joyns the end of the Shoulder-blade with the extremity of the

Shoulder of a Branch, is that part of it which begins at the lower part of the Arch of the Banquet, over against the middle of the Fonceau, or Chaperon, and forms another Arch under the Banquet. The Shoulder of a

Branch

Branch casts a greater or leffer Circumference, according as 'tis design'd to fortify, or weaken, the Branch. Your Horse's Bridle raises him well enough; but as for that other Bridle, that has too large a Shoulder, do not you see how it draws the Horse's Head between his Legs?

See Banquet.

Shoulder of a Horse, is that part of his Forehand that lyes between the Withers, the Fore-thigh, the Counter, and the Ribs. Your Horse throws himself too much upon his Shoulders, and he fits heavy upon the hand, for want of Porting, or Seating himself upon his Haunches, and bending his Hocks. Make your Horie's Hips fultain his Shoulders, and his Fore-quarters; then you'll have him light upon the hand, and well coupled. good Horse should be light in the Shoulders, and Subject the Hip. This Sorrel is Shoulder - fplait. That Horse has got the Spear-Feather in his Shoulder; which is a good Mark. See Spear-Feather, Shoulder-Splait, and Supple.

shoulder-pegg'd, (Chevillees) are so call'd when they are gourdy, stiff, and almost without Motion. A Horse charg'd with Shoulders, is a Horse that has thick, sleshy, and heavy Shoulders. Your

Horse over-reaches, because he goes too much upon his Shoulders.

Shoulder-Splait; a Horse is said to be such when he has given his Shoulder so violent a shock as to disjoint the Shoulder-bone from the Body. Your Horse rakes as he trots, and halts so down to the Ground, that I believe he's Shoulder-Splait.

SIDE; to ride a Horse side-ways, is to passage him, or make him go upon two Treads, one of which is mark'd by his Shoulders, and the other by his Haunches.

SIGUETTE, is a Cavellon of Iron, with Teeth or Notches; that is, a Semi-Circle of hollow and vaulted Iron, with Teeth like a Saw, confifting of two or three pieces joyn'd with Hinges, and mounted with a Head-stall and two Ropes, as if they were the Caveffons that in former times were wont to be put upon the Note of a fiery stiff-headed Horse, in order to keep him in subjection. There is a fort of Siguette that's a round Iron all of one piece, few'd under the Nofe-band of the Bridle, that it may not be in View. This Siguette we employ with a Martingale, when a beats upon the hand.

SINEW; Unsinew a Horse, (in French, Enerver)

is to cut the two Tendons on the fide of his Head, about five inches under the Eyes; which two joyn in one at the Tip or end of the Nose, in order to perform its Motion. This Tendon at the Tip of the Nose is likewife cut. We unfinew, in order to dry the Head, and make it smaller. Upon the whole, the Word Enerver, or Enervate, is improper to be ns'd on this occasion; for 'tis not a Nerve, but a Tendon, that's cut.

Sinew-shrunk; A Horse is said to be Sinew-shrunk, when he is over-rid, and so born down with Fatigue, that he becomes gaunt-belly'd thro' a Stiffness and Contraction of the two Sinews that are un-

der his Belly.

Sinew-Sprung, is a violent Attaint or Over-reach, in which a Horse strikes the Toe of his hinder-feet against the

Sinew of the Fore-legs.

SKITTISH Horfe, (in French, Ecouteux, and Retenu) is one that leaps instead of going forward, that does not fet out or part from the hand freely, nor imploy himfelf as he ought to do. Put that Horse on; he's skittish. Tis too much trouble to make such a Horse go forward; he's only sit to run upon a Squadron.

SLABBERING-BIT.

See Mastigadour.

SLACK a Leg, (in French, mollir la jambe) is faid of aHorse when he trips or stumbles. This Horse slackens strangely, after one hours hunting, and mine has kept in with the Stag till he was kill'd, without slackening, though he be but a Lathback.

Slack the hand, is to flack the Bridle, or give a Horse

head.

SNAFFLE, after the English Fashion, is a very slender Bitt-mouth without any Branches: The English make much use of 'em, and scarce use any true Bridles, but in the Service of War. The French call 'em Bridons by way of distinction from Brides; i.e. Bridles. See to Rest

beauy.

Snaffle, or small Wateringbitt, is commonly a Scatchmouth, accoutred with two little very straight Branches, and a Curb, and mounted with a Head-stall and two long Reins of Hungary Leather. To put a Horse in a Snaffle to dreis or curry him. To lead a Horse to Water in a Snaffle. To hold a Horse with a Snaffle between two Pillars in the Stables. To turn a Horse to the Snaffle (au filet) is to let his Croupe to the Manger, and his Head between two Pillars, to hinder him to

SNORT, Snuffler, Snuff, (in French, Ebrouer) implies a certain Sound that a Horse full of fire breathes thro' his

NO-

and founds as if Nostrils; he had a mind to expel fomething that were in his Nofe, and hinder'd him to take breath. This Noise or Sound is perform'd by the means of a Cartilage within the Nostrils, call'd in French, Souris. Horses of much Mettle fnort when you offer to keep them in. 'Tis plain, your Horse is well winded, for he fnorts every Turn of the Gallop, and that's a fign his Lungs are good. The Word (Ebrouer) is expressive in the French; for they have no Word of an equivalent Signification to it. See Souris.

SOLE: To take out the Sole, is to do it without touching the Horn of the Hoof; for if you take off the Horn, you make a Hoof-cast. We take out the Sole for several Infirmities, as you may see in Mr. Solleysel's Compleat Horseman. A Horse that's unfoled may recover in less than a Month:

High-fol'd, (in French, Pied Comble) a Horie whose Sole is round underneath, so that 'tis higher than the Hoof, which oftentimes makes the Horse halt, and hinders the shoeing of him, unless

the Shoe's vaulted.

Sole of a Horse is a Nail, or fort of Horn under the Foot, which is much tenderer than the other Horn that incompasses the Foot, and by reason of its hardness, is properly called the Horn

or Hoof. A Horse's Shoe ought to be so set upon the Hoof, as not to bear upon the Sole; for otherwise the Sole would be hurt, and not only make the Horse lame, but corrupt the Flesh that separates it from the Coffin-bone. I take it, there's a Fig in this Horse's Sole, but

t'other is furbated.

SORREL is a Reddiff Colour, with which the Mane ought to be Red or White: 'Tis distinguish'd according to the Degrees of its deepnels, into a Burnt-Sorrel, and a Bright or Light-Sorrel; but generally speaking, 'tis a sign of a good Horse. This Burnt-Sorrel does not belie his Colour. He makes good the Proverb, A Burnt-Sorrel will die before he's tyred: For, in effect, you can never overdoe this Horse; and when other Hories are quite gone, he is still brisk; but for that Light-Sorrel, with the Pale Extremities, that is, the Hair of whose Extremities, i. e. Mane and Tale, is less tinged and whiter than the rest, he's scarce able to bear his own Tail; and though you have never fo tharp Spurs, you can't ride him an hour, but he becomes infenfible and heedless both of the Spur and the Whip; for thele pale out-parts are frequently a fign of Weakness, and lower the Value of a Horfe.

SOUND, (in French, Droit); a Horse is such that does not halt. When a Jocky

iells

fells a Horse, he warrants him found hot and cold; that is, that he does not halt neither when you mount him, nor when he's heated, nor yet after alighting, when he stands and cools.

SOURIS is a Cartilage in the Nostrils of a Horse, by the means of which he snorts.

See Snort.

The cutting of this Cartilage is call'd in French Essourisfer.

SOUS-SUI. See

Haunches.

SPAVIN: Ox-Spavin, is a Swelling in the lower part of the infide of the Hough, which for the most part makes the Horse lame.

Dry-Spavin, or String-halt, is a Stiffness or Gourdiness of the Ham, so that the Horse can't bend it, but is constrain'd to lift the Hip and the Leg all at once, without bending the Ham.

Blood-Spavin is a Tumor on the infide of the Thigh, near the place where the Curb is feated. The Crural-Vein difembogues in this part, which makes a foft and painlefs

Swelling.

SPEAR: The Feather of a Horse call'd the Stroke of the Spear, is a Mark in the Neck, or near the Shoulder of some Barbs, and some Turky and Spanish Horses, representing the Blow or Cut of a Spear in those Places, with some appearance

of a Scar, as 'twere. This Feather is an infallible fign of a good Horse.

Spear-hand, or Sword-hand of a Horse-man is his Right-

hand.

Spear-foot of a Horse is the Far-foot behind. Your Horse has a White in the Far-hind-foot. See Foot.

SPLENT is a Callous or hard Swelling upon the Shank-bone of a Horse, on the inside, below the Knee; and sometimes

on the outfide.

Thorough-Splent, or Pegg'd-Splent is a Double Splent, one on the outside, and another on the inside of the Shank, the one o-

ver-against the other.

SPUNGE of a Horse-shoe, is the extremity or point of the Shoe that answers to the Horse's Heel, upon which the Calkins are made. Never make Thick Spunges to your Horse-shoes, for that ruins Heels.

SPUR is a small piece of Iron, of two Branches, bended in the form of a Semicircle, for receiving the Horse-man's Heel in their Cavity. In the middle they have a Rowel, ie. a finall piece of Iron, with eight orten Points or Sharp Ends, to prick the Horse's Sides withal upon occasion, and sometimes to the very Quick. This Horfe knows no Spur, that is, he is not sensible of it. Such a Horse obeys the Spurs; that is, he flies 'em. This Horse is sensible of the Spur, he flies the

Spur;

Spur; he answers the Aids of the Spur. A Ticklish Horse cleaves to the Spur. Bring to your Spur: Put on with it. Sometimes we call this Pricking; Sometimes we say a Horse obeys the Heels; knows the Heels. See Prick and Heel.

SQUARE. To work in a Square. The Pifte or Tread of a Volte, instead of being always circular, and trac'd upon a circumference round a Center, ought likewife to be imagin'd fo as if it formed four straight equal Lines laid, run in a Square, and equally remov'd from the Center or the Pillar which reprefents it in the middle of the Manage-Ground: So that to work in a Square, is to ride along each of these four Lines, turning the hand at every Corner, and fo passing from one Line to another.

STABLES. See E-

curie.

STAG-EVIL. See

Hart.

STALLION, (in French, Etalon, or Etelon) is a Stone-horfe shut up in a Breed with Stud-Mares, for making a Breed or Race of Horses. To give the Stallion to Mares; to make a Stallion cover a Mare in hand, is to hold the Stallion by the Halter or Bridle while he covers her. In our Breed, when we suffer the Stallions to cover the Mares,

we always leave 'em loose and at liberty, and never have 'em covered in hand. The Duke of Newcastle does not approve of the covering of Mares in the hand; he affirms they ought to be left to their natural liberty, by which means the Foal will be of a better make. See Breed.

STARTING, Skittish, Timorous. A Horse is said to be fuch, that takes every Object he fees to be otherwise than it is, upon which he ftops, flies out, and flarts fuddenly to one fide, infomuch that the Rider can't make him come near it. This Fault is more common to Geldings than to Stone-horses. The Horses that have bad Eyes are fubject to it, as well as those that have been long kept in a Stable without airing; but the latter are easily cur'd of it. When you have a skittishHorse, never beat him in his consternation, but make him advance gently, and with foft means to the Scare-crow that alarms him, till he discovers it, and gains affurance.

STATELY, a Horse that goes with a proud stately structing Gate, is call'd in French, Piaffur: Which see.

STAY; to stay the Hand, to stay or sustain the Horse, is to hold the Bridle sirm and high. The least stay or support of your hand will stop your Horse. We likewise sustain or stay a

Herie

Horse with the In-leg, or the In-heel, when he makes his Croupe go before his Shoulders upon Volts. We stay a Horse again, when we hinder him to traverse, when we ride him equally, keeping him always subject, so that his Croupe can't slip out, and he can't loose neither his Cadence, nor his Ground, but marks all his times equal.

STEP. See Walk.

Step and a Leap. The Air of a Step and a Leap, is the high Manage of a Horse, that between two Leaps, or Capribles, marks a Corvet, which upon this occasion is call'd a Step, in fuch a manner, that at every Leap or Capriole, he raises his Fore-legs, and his Haunches follow, yerking or striking out his hind-legs at the end of every Leap. When a Horse inclines to this fort of Manage, we put him forward with the Aids of the hand, the Calves of the Legs, the Poinson and the Heel, which should be all dexterously employed to make him lift before and behind, and give him a good Appui or stay. See Time.

Two Steps and a Leap, is a Manage or Air compounded of two Corvets, terminating in a Capriole.

STIFFLE, or Great Muscle, is the part of the hind-leg which advances towards a Horse's Belly, and is a

most dangerous part to receive

a Blow upon.

STIRRUP, is a Rest for a Rider's Foot, composed of some small Pieces of Iron forged into Barrs, and level below, but arch'd in the upper part, by which side they are hung in Stirrup-Leathers. Bear vigorously upon your Stirrup, when you have your Foot in it; and hold the Point of your Foot higher than the Heel. When you would stop your Horse, you must bear upon your

Stirrups.

You should keep your Rightstirrup half a Point shorter than the Left, for in Combat the Horse-man bears and rests more upon the Right; and to facilitate the mounting of your Horse, the Left-stirrup thould be fomewhat longer than the other. Shorten your Stirrup one Point; let it down a Point. Fit your Stirrup to the Point that fuits you. Give your Horse way with your Stirrups unbuckled and dangling, that they may strike against his Flank, and accustom him to the Sper.

To loose ones Stirrups, is to suffer 'em to slip from the Foot. Take care you do not lose you Stirrups. You have lost your Right-stirrup upon a

small Yerk or two.

The Stirrup-foot, or the Near-fore-foot, is the Left-foot be-fore.

Stirrup-Leather is a Lathe or Thong of Leather, descending from the Saddle down by the Horse's Ribs, upon which

the Stirrups hang.

Stirrup-bearer; (in French, Porte Etrier) is an End of Leather made fast to the End of the Saddle, to truss up the Stirrups when the Rider is alighted, and the Horse sent to the Stable.

STOP, is a Paule or Discontinuation of Going. To form a Stop, is to stop upon the Haunches. Acquaint these Gentlemen, that to form the Stop of a Horse, they must, in the first place, bring to the Calves of their Legs, to animate him; bend their Body backwards, raise the Bridle-hand without moving the Elbow; then vigorously extend their Hams, and rest upon the Stirrups, to make him form the Times or Motions of his Stop in falcading with his Haunches three or four times. I form'd the Stop of my Horse in the three or four times; i. e. making him falcade upon his Haunches. Horse forms his Stop ungracefully; for he does not bend his Haunches; he traverses, and beats upon the This Horse, from parting to stopping, has held a Career of a Hundred Pases; and, after marking the

Stop, made a Pesate or two at last. Do not form the Stops of your Horfe fo fhort and precipitant, unless you have a mind to spoil his Hams, and his Mouth. ter stopping your Horse, make him give two or three Corvets. The opposite Term to Stop is Parting. In former times, the Stop of a Horse was call'd Parade.

See Raise, and Nails.

Half a Stop, is a Stop not finish'd by a Pesate; so that the Horse, after falcading three or four times upon the Haunches, refumes and continues his Gallop, without making Pefates or Corvets. Do not you admire this Spanish Horse that makes such good Passades? Mind how he Gallops in a straight Line, as he is pull'd, and how he forms a Half-stop, making Falcades three or four times with his Haunches very low. You fay well, that if he after that made a Pefate or two, 'twould be a compleat Stop: But you fee, that initead of a Pefate, he makes his Demivolt in three times. and refumes his Gallop upon a straight Line, in order to do as much at the end of the Passade. Come and see my Barbary Horie; who in his Galopade will make twenty Half-stops, and refume his Listening Gallop with the

iame

fame Cadence, without heat or disquiet. One may truly fay of this Barb, that the Rider has his Will in his hand. See Falcade, Paffade,

and Pesate.

STRAIGHT. To part or go fraight or right out, is to go upon a Tread traced in a Straight-Line. This Horse makes Corvets equally well, straight, and upon Volts. When you would push your Horse forwards, make him part straight, and put him back straight, without traverfing or bearing fidewife.

Straight - Memberd, ( in French, Drsit sur les jambes }

See Legs.

STRAIN, Sprain, or Swaying, (in French, Effort) is a violent Extension of the Sinews, or Relaxation of the Muscles, that keep a Horse's Bones tight in their Articulations: And the Word Effort is likewise us'd for a Rupture of any Vein. This Horse is Hip-thot, Shoulderfplait, Sway'd in the Back. See Shoulder-Splait.

STRANGLES, is a Collection of foul Humors form'd in the Body of a young Colt; which are voided by the Nostrils, or by a Suppuration of some Glands or Knots that lye between the Bones of the lower Jaw, and are crowded with Impurities. The false Strangles happen in old Horses; that have not

well cast the Strangles.

STRAPS of a Saddle, are small Leather Straps, nail'd to the Bows of the Saddle, with which we make the Girths fast to the Saddle.

STRIKE a Nail, is to drive it thro' the Horse's Shoe, and the Horn or Hoof of his Foot; and to rivet it for holding on the Shoe. Since your Horse has commonly much Hoof at the Toes of his Fore-feet; the Farrier may strike high there without fearing the coming upon the quick: And as for the Hinder-feet, he ought to strike pretty high upon the Quarter or Heel, but low at the Toe; because there the Hoof is near the quick. See Pierce, and Pricking.

To Strike a Vein. See

STRING-HALT.

See Dry Spavin.

STUB, (in French, Chicot) is a Splinter of fresh cut under-Wood, that gets into a Horse's Foot as he runs; and piercing the Sole thro' to the quick, becomes more or less dangerous, according as it finks more or less into the Foot.

SUBJECT; To keep a Horse subject, is an Expression relating to Volts; signifying, to keep the Croup of the Horse in the Round, so that it may not slip out; that he may not traverse, and that he may work in the Manage, Croup in, marking his equal Times, without losing his Ground.

SUPPLE a Horse, is to make him bend his Neck, Shoulders, and Sides; and to render all the Parts of his Body more pliable. Your Horse has a stiff Neck and Shoulders; he has no Motion with his Leg: You must try to supple him with a Cavesson made after the Duke of Newcastle's way; and Trot and Gallop him, so as to make him turn frequently from a Trot to a Gallop.

SURBATING, is a Corruption of the Flesh under the Sole of a Horse, which is bruis'd and spoil'd by the Sole, when a Horse runs long unshod, and the Sole is over-dry'd, and withered.

SWEATING-IRON, or Knife, is a piece of a Sythe about a Foot long, and of the breadth of three or four Fingers, very thin, and fuch as cuts only with one fide. When a Horse is very hot, and the Grooms have a mind to lessen the Sweat, or make it glide off,

they take this Knife or Iron in their Two Hands, and gently run the Cutting Edge along the Horse's Skin, commonly with the Grain, or as the Hair lies, and but seldom against it; with intent to scrape off the Sweat, and dry the Horse.

SWORD-Hand, or Spear-hand, is the Right-hand of the Horse-man; the Lesthand is call'd the Bridlehand.

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TAIL of a Horfe. A great many affirm, that the Dock of a Horse's Tail ferves to point out his fixth or feventh Year; pleading, that about the time that the black Speck, or Eye of the Bean begins to disappear, and the Cavity to be fill'd, the Dock of the Tail becomes longer, by reason that the Vigour of the young Years begins to abate, and Nature has not strength enough to nourish and keep up the Joints or Knots that form the Dock ; so that when the Horse is fix Years old, one of these Joints flackens, and begins to fall down; and a Year after, another descends in like manner. But this Relaxation, or Down-falling, happens fooner in some than in others, according as they have been well, or ill kept, with reference

rence to Feeding, Housing, and Working. Accordingly we find the Marks of a Horse's Age taken from his Tail, are so erroneous, that we see a great many Jockeys maintain, that the first Joynt descends when he is nine, and the second when he is ten Years old.

TEETH, are little Bones in a Horse's Jaws, which serve not only to facilitate the Nourishment, but likewise to distinguish the Age of Horses. A Horse has forty Teeth, including the Tuthes; which are di-

flinguished as follows.

Four and Twenty of 'em are call'd the Grinders, which are plac'd at the bottom of the Mouth, beyond the Barrs, Twelve on each fide of the Channel, viz. fix above, and fix below, on each fide. These Teeth continue, and do not fall, to give place to new Teeth in their room; so that they are of no use in distinguishing a Horse's Age. However, they are subject to Wolves Teeth.

With reference to the other Sixteen, Twelve of 'em are call'd in their infancy Milk or Foal-Teeth, and the remaining Four go by the

name of Tushes.

The Twelve Foal-Teeth, are short, small, and white Teeth, seated on the Fore-part of the Mouth, Six above

and Six below. These change and cast, to give place to others; which, in process of time, become long, large, and yellowish. These new Teeth are distinguish'd by the different Names given them according to their putting forth; and 'tis the manner of their coming forth that gives us to know the first Years of a Horse. these Twelve, Four are call'd Nippers, Four are named Middling Teeth, and Four go by the Name of Corner Teeth.

The Four Nippers are seated in the Fore-part of the Mouth, Two above, and Two below. When a Horse has put forth these, we conclude, that he goes from Two and a half to Three Years.

The Middling Teeth are placed near the Nippers, or Gatherers, One above, and One below, on each fide of the Jaws. They come out and appear between Three and a half and Four Years.

The Corner-Teeth are plac'd yet more forward in the Mouth, One above, and One below, on each fide of the Jaws. These begin to shoot between the Fourth and the Fifth Year, and are got above the Gum at Five Years. Now, surmounting the Gum at that Age, they become hollow, and mark commonly till Seven or Eight

Years. By Marking, we mean, that in the Hollow, or Cavity of the Corner-Teeth, a little blackish Speck is form'd; which, from its Resemblance, we call the Bud or Eye of a Bean. But when the Horse passes Six, this Cavity begins to fill, and the black Mark disappears by degrees; and this Diminution of the Cavity and the Mark, continues from Six to Seven and a half. Eight Years, the Cavity is fill'd up, and the black Mark is gone; and in regard that the Tooth is then full, even, and fmooth as if it had been shav'd, we then fay, that the Horse has raz'd. Which happens a little before the Eighth Year; and after that the Horse does not Mark; so that the furest Knowledge of his Age is then took from the Tushes.

The Tushes are plac'd beyond the Corner-Teeth upon the Barrs, Two on each fide of the Jaws, i.e. One above, and One below, without being preceded by any Foal-Teeth. The Two Under-Tushes cut fometimes at Three Years, Iometimes at Three half, and fometimes Four: But the Two Upper-Tufhes appear sometimes at Four, and fometimes at Four and a half; fometimes before; and lometimes after the Corner-Teeth, without any certain Rule: And till the Age of Six they are chamfer'd within. About Ten Years of Age the two upper Tushes appear much worn; which ferves for an indication of that Age. that, they grow out in length, and become bare of Flesh. because the Gum shrinks. and retires: And at last, about the Fifteenth or Sixteenth Year, the Horse seels. A Horse is not capable of any great Fatigue, till his Tushes have cut the Skin. Most of the Dutch Horses are very fick when their Tushes come forth. Mares have 'em but feldom, and when they have 'em they are very finall. See Shelltooth'd, and Counter-mark'd.

In speaking of the Teeth, we say such a Horse has cast his under Milk-teeth; he has cast his Corner-teeth, at his Nippers; he has put forth his Nippers. This Sorrel has chang'd his Teeth, and cast his Nippers. This Horse is unlucky both with his Feet and his Teeth, you must get

him cut or gelt.

TENDON: To cut a Horse's Tendon. The Tendon is a sort of a Gristle that surrounds one part of the Foot, and is seated between the Hoof and the Cossin-bone, near the Cronet. When a Horse has a Quitter-bone, the Matter that

2 gathers

gathers between the Coffin-bone and the Hoof, spoils the Tendon, and makes it black; and the Cure of such a Quitter-bone consists in cutting and extirpa-

ting the Tendon.

TERRAATERRA, is a Series of low Leaps, makes forwhich a Horse wards, bearing fide-ways, and working upon two Treads. In this Motion the Horse lifts both his Forelegs at once; and when these are upon the point of descending to the the Hinder-legs Ground , accompany 'em with a short and quick Cadence, always bearing and staying upon his Haunches; so that the Motions of the Hinder-quarters are short and quick; and the Horse being always well prest and coupled, he lifts his Fore-legs pretty high, and his Hinderlegs keeps always low and near the Ground. This Manage is call'd Terra à Terra, because in this Motion the Horse does not lift his Legs so high as in Corvets. Such a Horse works very well at the Terra à Terra. See Six Volts.

TERRAIGNOL.
A Horse so call'd, is one that cleaves to the Ground, that can't be made light upon the hand, that can't be put upon his Haunches, that raises his Fore-quarters with difficulty, that's charg'd with Shoulders, and in general, one whose Mo-

tions are all short and too near

the Ground.

TERRAIN, is the Manage-ground upon which the Horse marks his Piste or Tread. This Horse observes his ground well; he keeps his ground well; he imbraces his ground well, without inlarging or narrowing more to one hand than

to another.

TETTAR is an Ulcer almost as broad as one's hand, that appears commonly upon a Horse's Croupe, sometimes on his Head, and sometimes upon his Neck. It proceeds from Bilious Blood, that consumes and eats through the Hide or Skin, and causes such a violent Itching, that 'tis a hard matter to keep the Horse from scratching, and so inlarging or spreading the Ulcer. This Disorder was not known till of late.

THIGHS of a Horseman: The effect of óf Rider's Thighs is one the Aids that ferves make a Horse work vigorously in the Manage. As foon as the Cavalier closes with his Thighs, you fee the Horse is enliven'd and alarm'd, as preparing himfelf for doing what is demanded of him, and disposing himself for the Manage. Horse has such fine Aids, that he manages by the Aids of the Thighs alone, without needing those of the Legs.

Fore-

Fore-thigh, or Arm of a Horse, is that part of the Foreleg that runs between the Shoulder and the Knee: Tho' the Fore-thigh do not bend or bow, yet we commonly fay a Horse goes fine, that bends well the Fore-thigh; importing thereby, that he bends well his Leg. Your Horse bends the Fore-thighs sufficiently, and lifts his Fore-quarter very freely, so that there's no occasion to put him any longer between the two Posts, to make him light before.

TICK, is a Habit that fome Horses take of pressing their Teeth against the Manger, or all along the Halter or Collar, as if they would bite it. You have got a Ticker, that by ticking so often, will fill his Body with Wind, which will gripe him, and

make him fick.

TICKLISH: A Horse is said to be ticklish, that's too tender upon the Spur, and too sensible, that does not freely fly the Spurs, but in some measure resists 'em, throwing himfelf up when they come near and prick his Skin. A Ticklish Horse has somewhat of the Ramingues; i.e. the Kickers against the Spurs, but with this difference, that the latter put back, leap and kick and yerk out behind, in disobeying the Spurs; whereas a Ticklish Horse only

resists for sometime, and afterwards obeys, and goes much better through the sear of a Vigorous Ham, when he sinds the Horse-man stretch his Leg, than he does upon being actu-

ally pricked.

TIME, is fometimes taken for the Motion of a Horse that observes Measure and Justness in the Manage; and fometimes it fignifies the Interval between two of his Motions. This Horse-man is very attentive to all the Horse's Times, and backs'em feafonably. Such a Horse-man has flip'd two Times, and fuffer'd the Cadence of the Horse to be interrupted for want of aiding him. In the Manage of a Step and a Leap, the Horse makes by turns a Corvet between two Caprioles; and in that case the Corvet is one time that prepares the Horse for the Caprioles. Make your Horse mark two or three times at this Stop. Here by two or three times, you are to understand, two or three Falcades. Since your Horse is fo very grave, if you would oblige him to give fome Corvets, you should put him upon a gentle Gallop, and upon his Haunches, and affift him with your Legs, to make him mark the Times of the Corvets. In this last Example, the Word Time is taken for the Moti-On. valatil al

The Word Time does likewife fignifie the effect of one of the Aids. This Horfe-man prepares and disposes his Horse for the effects of the Heel, in beginning with one Time of the Legs; and he never runs precipitantly upon his Times.

TIMOROUS: Fearful Horse. See Starting, Skittish. In French, Peureux, Om-

brageux.

TITT. See Nag.

TOE, is the Stay of the Hoof upon the fore-part of the Foot, comprehended between the Quarters. We fay commonly, (Pince devant, and talon derriere) the Toe before, and the Heel behind; implying, that in Horses, the Toe of the Fore-feet is stronger than the Toe of the Hind-feet : And on the other hand, the Heels behind are stronger than those before: And accordingly in shoing, we drive higher into the Toes of the Fore-feet, and into the Heels of the Hindfeet. See Drive.

And fometimes a Horse does not rest his Hinder-feet all equally upon the Shoe, but raifes his Heel, and goes upon the Toes of the Hind feet. Such a Horse is called in French,

Rampin.

TONGUE: The aid of the Tongue or Voice is a fort of agreeable clacking, or a certain Sound form'd by the Cavalier, in Striking his

Tongue against the Roof of his Mouth, when he means to animate the Horse, and sustain him, and make him work well in the Manage. This Horse takes the Aids of the Tongue very well, he takes Life and Courage upon the

Aids of the Tongue.

Tongue. A Horse that draws in, or swallows his Tongue, is faid to do fo when he turns it down his Throat, which maks him wheeze as if he were short-winded. This Fault is cured by giving him a Bitt with a Liberty for the Tongue.

See Liberty.

TORCHENES, is a Long Stick with a Hole at the end of it, through which we run a Strap of Leather, the two ends of which being tied together, ferve to straiten and closely tye up a Horse's Nose as long as the Stick is stay'd upon the Halter or Snaffle. This is done to keep the Horse from being unruly when they go to dress him, or upon any other occasion. In Germany, when the Jockeys bring to any Fair the Roussins, i. e. thick-bodied strong Stone-Horses, they clap a Torchene's upon their Nose, to prevent their being diforderly.

TRAMELLED: A Horse is said to be tramelled, that has Blazes or White Marks upon the fore and hindfoot of one fide, as the far-

foot

foot before and behind. He is so call'd from resemblance of the White-foot to the Hoses of a Half-tramel.

cross-tramell'd Horse, is one that has White Marks in two of his Feet that stand cross-ways, like a St. Andrew's Cross; as in the Far-fore-foot, and the Near-hind-foot; or in the Near-foot before, and the Far-foot behind.

TRANCHEFILE, is the Crofs Chain of a Bridle that runs along the Bitmouth, from one Branch to

the other.

TRAQUENADE.

See Entrepas.

TRAVERSE; a Horse is faid to Traverse, when he cuts his Tread cross-wise, throwing his Croupe to one side, and his Head to another. When you stop your Horse, take care he does not Traverse. When you pull'd your Horse back, he Travers'd; and you do not consider, you ought to put back as straight as you advanc'd.

TRAVICE, (in French, Travail, and in some of the remoter parts of England, a Break;) is a small Inclosure, or oblong Quadrangle, plac'd before a Farrier's Shop, and consisting of sour Pillars or Posts, kept together by cross Poles; the Inclosure being design'd for

holding and keeping in a Horse that's apt to be unruly or disorderly, in the time of Shoeing, or of any Operation.

TREAD. See Pi-

Ae.

TREPIGNER; A French Word, importing the Action of a Horse, who beats the dust with his Forefeet in Managing, without imbracing the Volt; and who makes his Motions and Times short, and near the ground, without being put upon his Haunches. This is generally the Fault of fuch Horses as have not their Shoulders fupple, and at liberty, and withal have fcarce any Motion with them. A Horse may Trepigner, in going upon a straight Line.

TRIDE; A Word us'd in the Academies, fignifying Short and Swift. Tride Pace, is a Going of Short and Quick Motions, tho' united and eafy. Horse has a Tride-Career; that is, he gallops very faft, and has his Times or Motions fhort and nimble. Horse is faid to work Tride upon Volts, when the Times he marks with his Haunches are short and ready. Some apply the Word only to the Motion of the Haunches.

F 4

TRIP,

TRIP, or Stumble; A Horse is said to Trip, when he makes a false Step. Sometimes when a Horse stumbles, the French say, La jambe mollit; His foot sackens. Since your Horse is weak in the Reins and the Ridge of the Back, and his Feet are worn, he is apt to stumble.

TROT, is the Pace or Going of a Horse; in which the Motion is, Two Legs in the Air, and Two upon the Ground cross-wife, or in the form of a St. Andrew's Cross; continuing alternately to raise at once the Hindleg of one fide, and Forethe other Hind and Fore-leg upon the Ground, till the former come down. A Horse puts himself to a Trot, when, upon a Walk, he makes halte, or quickens his Pace; and if he be affisted by the Switch, and the Heels, he takes it yet better. This Horse is fure and firm, both at Step, Trot, and Gallop. This Horse Trots freely; and in Trotting, he tolles up his Leg; i. e. he bends his Fore - Thighs , and has a good Motion with him. Such a Horse rakes as he Trots, because he is shoulder - fplait.

TROUSSEQUEUE. See Saker, or Dock. TROUSSEQUIN, is a piece of Wood, cut Arch-wise, rais'd above the hinder Bow of a great Saddle, which serves to keep the Bolsters sirm. There are some Dutch Saddles, call'd Selles Razes, which have a low Troussequin.

TROUT-COLOUR'D Horse; is a White, speckled with Spots of Black, Bay, or Sorrel; particularly about the Head, and

Neck.

Ground cross-wise, or in the form of a St. Andrew's is said to be well Truss'd, Cross; continuing alternate- (in French, being Gigote;) ly to raise at once the Hind- when his Thighs are large, leg of one side, and Fore- and proportion'd to the leg of the other; leaving Roundness of the Croupe. the other Hind and Fore-leg A Horse is said to be ill upon the Ground, till the Truss'd, when his Thighs former come down. A Horse are thin, and bear no proputs himself to a Trot, portion to the Breadth of when, upon a Walk, he the Croupe.

TURN, is a Word commonly us'd by the Riding-Masters, when they direct their Scholars to change Hands. See Change,

and Entier.

Turn your Thighs, Turn your Legs, Turn your Heels. You can never have fine nice Aids, or feel exactly the Motions of your Horse; unless you turn your Thighs, so that the inside of your Knee may touch the Saddle.

TUSHES; are the Four Teeth of a Horse, seated

feated beyond the Corner-Teeth, upon the Barrs; where they shoot forth on each side of the Jaws, two above, and two below, about the Age of Three, and Three and a half, and sometimes Four: And no Milk or Foal-Tooth ever comes forth in the place where they grow. See Teeth.

TWIST; the Infide, or flat Part of a Man's Thigh; upon which a true Horseman rests upon Horse-

back.

TWISTED, (in French, Bistourne) is a Horse reduc'd to the same State of Impotency with a Gelding, by the violent Wringing or Twisting of his Testicles twice about; which dries them up, and deprives them of Nourishment.

## V.

VALET, is a Stick, arm'd at one end with a blunted Point of Iron, to prick and aid a Leaping Horse. Formerly, a Valet was call'd Aiguillon, (i. e. Goad) and some of 'em had Spur-Rowels upon 'em, only the Points beaten down: And when a Horse was first begun round a Pillar, without a Rider,

they us'd to prick his Flanks with the Valet, to make him know the Spur, and obey it without refisting. At present the Valet is not employed for that Use in Manage-Schools; and the Name of Goad is suppress'd, as being only proper for Oxen.

VAULT a Shoe, is to forge it hollow, for Horfes that have high and round Soles; to the end that the Shoe, thus hollow, may not bear upon the Sole that is then higher than the Hoof. But, after all, this fort of Shoes spoils the Feet; for the Sole being tenderer than the Shoe, assumes the Form of the Shoe, and becomes every day rounder and rounder. In Mr. Solleysel's Compleat Horseman, you may fee the true Method of Shoeing for high and round Soles. Soles sw , who modu

V E I N; to tye and strike a Horse's Vein. See Barr.

VESSIGON, A Wind-Gall, or foft Swelling on the in and outside of a Horse's Hough; that is, both on the right and the left of it.

VIVES, are Glands near the Throat, that sometimes swell, and by their pressure upon the Throat, do so cramp Respiration, that the

Horfe

Horse is in danger of being Wifled.

UNCERTAIN. We call a Horse uncertain, that is naturally restless and turbulent, and is not confirm'd in the Manage he's put to; fo that he works with trouble and uncertainty. See to confirm your Horse in his Terra a terra, for he's very uncertain.

UNITE: A Horse is faid to unite, or walk in union; when in galloping, the Hind-quarters follow and keeptime with the Fore. This Horse is united, for his Hind and Fore-quarters make but one Action, without changing the Foot, or gal-

loping false.

VOLTE: This Word fignifies a Round, or a Circular Tread; and in general, when we fay in the Academies, To make Voltes, to manage upon Voltes, we understand a Gate of two Treads, made by a Horse going sideways round a Center, in such a manner, that thefe Treads make parallel Tracts, one larger made by the Forefeet, and another smaller made by the Hinder-feet, the Croupe approaching towards the Center, and the Shoulders bearing outwards. Sometimes the Volte is of one Tread; as when a Horse makes Volts in Corvets, and in Caprioles, so that the Haunches follow the Shoulders, and move forward on the fame Tread. In general, the Way or Tract of the Volte is made fometimes round, fometimes oval, and fometimes a Square of Four straight Lines; so that these Treads, whether round or square, inclose a Terrain, or Manage-ground, the middle of which is sometimes distinguish'd by a Pillar, or else by an Imaginary Center, which is there supposed in order to regulate the distances and the

justness of the Volte.

Renvers'd Volt is a Tract of two Treads, made by the Horse, with his Head to the Center, and his Groupe out; so that he goes sideways upon a Walk, Trot or Gallop, and traces out a finall Circumference with his Shoulders, and a larger one with his Croupe. This different Situation of the Shoulders and the Croupe, with respect to the Center, gave this Volte the Name of Renversee, as being opposite in fituation to the former. Renvers'd Voltes upon a Walk, appeafe and quiet unruly Horses, if they are made methodically.

The Six Volts are made Terra a Terra, two to the Right, two to the Left, and two to the Right again; all with one Breath, observing the Ground with the same Cadence, work-

ing (tride) short and quick, and ready, the Fore-hand in the Air, the Breech upon the Ground, the Head and Tail firm and steady. To do the Six Volts, you should have an excellent Horse that's knowing and obedient, and has strength to answer'em.

To make a Horse work upon the Four Corners of the Volte, is to manage him with that justness, that from Quarter to Quarter, or at each of the Corners or Angles of the Volte, he makes a narrow Volt that does not take above the quarter of the great Volt, the Head and Tail hrm; and thus pursues all the Quarters, with the same Cadence, without losing one Time or Motion, and with one Reprise, or with one Breath.

In speaking of Volts, we say, to put a Horse upon the Volts; to make him work upon the Volts; to make good Volts, to embrace the whole Volt well; that is, to manage so, that the Horse working upon Volts, takes in all the Ground, and the Shoulders go before the Haunches. To passage upon Volts, or ride a Horse Head and Haunches in, is to ride him upon two Treads, upon a Walk, or a Trot.

Demi-Volt, is a Demi-round of one Tread or two, made by the Horse at one of the Corners or Angles of the Volt, or else at the end of the Line of the

Paffade; so, that being near the end of this Line, or else one of the Corners of the Volt, he changes hands, to return by a Semicircle, to regain the same Line. When he does not return upon this Line, we say, he has not clos'd (serrè) his Demi-Volte.

Demi-Volts of the length of a Horse, are Semicircles of two Treads, which a Horse traces in working fideways, the Haunches low, and the Head high, turning very narrow; fo that having form'd a Demiround, he changes the Hand to make another, which is again follow'd by another change of Hand, and another Demi-round which croffes the first. This Demi-Volt of a Horse's length, is a very pretty Manage, but very difficult; we may compare it to a Figure of 8.

Demi-Volte of five times, or Passade of five Times. See Passade.

## W.

VALK, is the flowest, and least rais'd, of a Horse's Goings. The Duke of New-castle made this Motion to be two Legs diametrically opposite in the Air, and two upon the Ground at the same time, in the Form of a St. Andrew's Cross: Which, in effect,

effect, is the Motion of a Trot. But later Authors agree, that so great a Master was mistaken in this point: For, in a Walk, (as any one may observe) a Horse lifts two Legs of a fide, one after the other, beginning with a Hind-leg first : As, if he lead with the Legs of his right fide, then the first Foot he lifteth is his farhind Foot; and in the time he is fetting it down, (which in a Step is always short of the Tread of his Fore-foot upon the fame fide ) he lifteth his far Forefoot, and fetteth it down before his near Fore-foot. Again, just as he is fetting down his far Forefoot, he lifts his near Hindfoot, and fets it down again just short of his near Forefoot, and just as he is setting it down, he lifts his near Fore-foot, and fets it down before his far Forefoot. And this is the true Motion of a Horse's Legs upon a Walk. This Horse walks well; he raises his Legs. Such a Horse observes the Walk, or Step: He finishes the Demivolt in a Walk. Begin this Lesson in a Walk, and end it with a Walk. When you teach your Horse to turn to the right and left, or from one hand to another, make him walk at first, then teach him

upon the Trot, and then up-

on the Gallop.

WARRANT a Horse. A Jockey that fells a Horse, is by an inviolable Custom obliged to Warrant him, that is, to refund the Money that was given for him, and re-deliver the Horse in Nine days after the first Delivery, in case he fold him when under füch Infirmities as may 'fcape the View of the Buyer, and as are not obviously discovered, namely, Pursiveness, Glanders, and Unfoundness, Hot and Cold. But he does not warrant him clear of fuch Infirmities as may be feen and difcern'd. And not only aHorse-Merchant or Jockey, but Persons of what Quality foever, stand obliged by the Law of Nature, and will be constrain'd to take back the Horse, if he's affected with the Diforders first mention'd, and to repay the Money.

WART, is an Excrefcence, or Superfluity of Spungy Flesh, that rises in the hinder Pasterns of Coach-Horses, almost as big as a Walnut. A Wart, (in French, Poirau) suppurates and voids red stinking Matter, and do's not cure but for a time, for

it returns again.

WATERY Sores, (in French, Mauvaises Eaux) are a Suppuration of stinking

and malignant Humors, which issue from the Pasterns and Fetlock-Joynts of a Horse; and that from the hinder, rather than the Fore-legs. See the proper Remedies in Mr. Solleysel's Compleat Horse-man.

WAY'D Horse, is one that's already back'd, suppled, and broken, and shews a Disposition to the Manage. Your Horse knows the Bridle, and answers the Spurs; and generally when he's put to it, he presents in such a manner, as shews he's thoroughly Way'd, (achemine.)

WEAK, Eafy Branch. See Banquet, and Banquet-

Line.

WHITE-Face, or Blaze, (in French, Chanfrain blane) is a White Mark upon a Horse, descending from the Forehead almost to the Nose. See

Chanfrin.

WHITE-Foot, (in French, Balzane) is a White Mark that happens in the Feet of a great many Horses, both before and behind, from the Fetlock to the Cossin. The Horses thus mark'd, are either trammell'd, Cross-trammel'd, or white of all Four. Some Horsemen place an unlucky Fatality in the white of the far Foot behind. See Chausse trop haut, and Trammel'd.

WIND: A Horse that

carries in the Wind, is one that toffes his Nofe as high as his Ears, and does not carry handsomely. The difference between carrying in the Wind, and beating upon the Hand, is, that a Horse who beats upon the Hand, shakes his Head, and refists the Bridle; but he who carries in the Wind, puts up his Head without shaking, and sometimes beats upon the Hand. The opposite to carrying in the Wind, is arming and carrying low: And even between thefe two there's a difference. Try if a Martingal will bring in your Horse that carries in the Wind.

Wind. See Breath.

Wind-gall is a foft Swelling, occasion'd by over-working, just by the Horse's Fetlock, about as big as half a Pidgeon's Egg, and at first full of Water. A Wind-gall upon the Sinew, that grows hard, makes a Horse halt, and in the end makes him down-right lame. Your long-jointed Horfes are apt to be Wind-gall'd, though they work never fo little. The Wind-galls that we call Sinewy, happen commonly in the Hinder-legs, and nothing but Fire can cure them; nay sometimes Fire it felf will not do. See also Vefsigon.

WITHERS is the Juncture of the Shoulder-

bones,

bones, at the bottom of the Neck and Mane, towards the upper part of the Shoulders. Your Horse is hurt or wrung in the Withers. Some call this in French, Encraine, but improperly.

Withers of the Bow of

a Saddle. See Bows.

Wither-band, is a Band or piece of Iron laid underneath a Saddle, about four Fingers above the Withers of the Horse, to keep tight the two pieces of Wood that form the Bow.

Wither-wrung: A Horse is said to be wither-wrung, when he has got a Hurt in the Withers; and that sort of Hurts are very hard to cure.

WOLF's Touth, is the excessive height of some of the Grinders, which shoot out Points as they increase in length, and not only prick the Tongue, but hurt the

Lips in feeding.

To WORK a Horse, is to exercise him at Pace, Trot, or Gallop, and ride him at the Manage. This Gentleman that has not been in the Academy three Months, works well; he'll prove a good Horseman. Never work a Horse but with judgment. To work in a Square. To work in a Circle. To work upon Volts. To work at the Air of Corvets. We do not

work this day; that is, we have no Manage this

day.

To work a Horse upon Volts, or Head and Haunches in, or between two Heels, is to passage him, or make him go sideways upon two parallel Lines.

WRIST; (in French, Poing); the Bridle-Wrift is the Wrist of the Cavalier's Lefthand. A Horie-man's Wrift and his Elbow should be equally rais'd, and the Wrift fhould be two or three Fingers above the Pommel of the Saddle. This Horse follows the Bridle-hand, he does not refuse it. To ride a Horse from hand to hand; i.e. to change hands upon one Tread. you need only to turn your Wrist to what side you would have the Horse to turn to, without advancing your hand. If your Horse stops, you must make use of both Legs. See Hand.

#### Y.

TO YERK or strike with the Hind-legs (in French, Nover l' Equillette) is said of a leaping Horse when he slings and kicks with his whole Hind-quarters, stretching out the two Hinder-legs near together and even, to their full extent. Your Horse is only

only fit for Croupades and Ballotades; for fince he can't nouer l' Equillette, he'll ne'r be fit for Caprioles. A fingle Yerking is call'd in French, Ruade.

YIELD, or flack the Hand, is to flack the Bridle, and give the Horse head.

Z.

Z A I N: A Horse is call'd in French, Zain, that is of a Dark Colour, neither Gray nor White, and without any White Spot or Mark upon him.

FINIS.

of hit for Croupades and Ralthe for finds he can't for I for finds to the can't find for Carrista. A fingle thing is called in France, Call'd in France, Zair,
that is of a Dark Colorer,
neither Gray nor White,
and without any White Shate
or Mark upon him. Y I E L D , or flack the Hand, is to flack the Bri-dle , and give the Horfe

## THE

# Gentleman's Dictionary.

# PART II.

Of Military Affairs.

### ADJ

### ADV

ders every Night from the Bri- Adjutant, and a Regiment of Foot gade-Major, which, after he has has one for each Battalion. carried to his Colonel, he delivers ADVANCE - GUARD, out to the serjeants assembled in see Guard. a Ring. If there be Detachments Advance Feffe, is a Moat or furnish. He receives and distri- 1697, to cover Brussels from a butes Ammunition to the Com- fecond Bombardment, had a dry panies, keeps a Roll of the Offi- Moat funk at the Foot of the Outy sand, by the Major's Order, A 2

DJUTANT, or Aid-regulates the Price of Bread, Beer, Major, is an Officer ap Meat, &c. to prevent the Mens pointed as an Affistant being imposed on by the Sutlers. to the Major, to ease him in He must be vigilant and active. his Duty: he receives the Or- Each Regiment of Horse has an

for Convoys, Guards or Parties Ditch of Water round the Glacis to be made, he gives the Num- or Esplanade of a place to prevent ber each Company must furnish, a Surprize; they are not much apwith the Hour and Place of Ren- proved of late: for, being drain'd, dezvous: he places the Guards, they serve as a Trench ready made and makes Detachments for what to the Befiegers. The Works raiother Guards the Regiment is to fed by M. Coeborne, in the Year cers to do them Justice in their Glacis, of about 7 or 8 yards over-

Aid de Camp is an Officer employ'd under a General to carry long with an Army for the Subhis Orders; it is a very honoura- fistance of the Troops; each Solble Post for a Young Gentleman; dier receiving a Loaf of fix pound he is obliged to a very constant weight every four days. Attendance, to be very well ANGLE, as it is a Geo-

nels of the Guards. Both Right Angle, if exactly ninety in the late War, and this, the Degrees. Picquet-Guard hath often been Readiness they were.

up in, upon all Occasions.

angle.

bush, to defeat an Ambush, to fall an Angle composed of one Flank into an Ambush, are plain.

AID-MAJOR, see Adju- AMMUNITION implies all forts of Warlike Stores.

Ammunition-Bread is carried a-

mounted, to be diligent and a- metrical Term, is the meet-Ctive. A Lieutenant-General is al- ing of two Lines, so that if lowed two Aids de Camp, and a prolong'd, they would cut one another. 'Tis either Right Lined, ALARM is a sudden Calling when composed of two streight to Arms, upon an Apprehension of Lines; Spherical, when made of Danger from the Enemy; a falle two crooked Lines; or Mixt, Alarm is sometimes occasion'd when composed of a streight by a fearful or negligent Centinel, and crooked Line: Likewise and sometimes designedly by a di- Acute, if under ninety Degrees; ligent Officer, to try the Readi- Obtuse if above ninety; and a

Angle, as a Term in Fortificacalled out hastily, to see in what tion, is explain'd in the following Definitions. (1.) Angle of the Alarm-Post is the Ground ap. Centre, is that made by two Lines pointed each Regiment by the drawn from the Centre to the Ex-Quarter-Master-General for them treams of any side of the Polyto march to, in case of an A- gon. (2.) Angle of the Polygon, is tarm; this is never done but up- the Angle made by the meeting on an Apprehension of being at- of two sides of the Polygon, and tacked by the Enemy: Alarm- is the same with the Angle of the Post in a Garrison, is the Place Gorge. (3.) Angle of the Curtin alotted each Regiment to draw or of the Flank, is the Angle form'd by the meeting of a Flank AMBLIGON, see Tri- and a Curtin. (4.) Angle of the Shoulder, is form'd by one Face AMBUSCADE or Am- and one Flank. (5.) Flanked Anbush, is a Lurking Party in a gle, is the meeting of two Faces. Wood or other convenient Place (6.) Angle of the Tenail or Flankto surprize an Enemy, either ing Angle, is composed of the in their Convoys, Detachments, Line of Defence and the Curtin. or Foragers. To discover an Am- (7.) Angle forming the Flank, is

fing the Enemy, and obliging the appointed a Rendezvous, and Garrison to a greater Duty. They are there marshall'd by Half Moon.

cially the Danes, have fix Carpen- Regiment it belongs. mend any thing that may break Soldier had fired; but they are down, and to help the Ways. now made with Iron Handles and For [mall Axes, see Hatchets.

Pioneers, to dig up Ground that is fast; fo that the Soldier fires with too hard for the Spade; they are his Bagonet on the Muzzle of his of great use for mending the Piece, and is ready to act against Ways, and in Fortification.

BACULE is a Gate made afide. like a Pit-fall, with a Counter- BAGS, see Sand-bags. poize before the Corps de Gardes BALL, Bullet, or Shot, is of advanc'd near the Gates, which Iron or Lead, to be fired out of

are those in which the Officers ters and Weight, according to and Regiments Baggage is car- the nature of the Piece. An En-

have sometimes been successful, Waggon-Master-General, accoras at the Siege of Mastricht by the ding to the Rank the Regi-French, where the D. of Orleans ments have in the Army. On a who commanded a false Attack a- March they are sometimes ordered gainst Wick, did by his Presence to follow their respective Coand Behaviour, so animate his lumns of the Army, sometimes Men, that after having forced the to follow the March of the Artil-Palifades, he made himself Master ery, and sometimes to make a Coof the Counterscarp, and of a lumn by themselves. The General's Baggage is generally first. AXES are very useful in an If the Army march from the Army for cutting ways thro' Right, the Baggage of that Wing Woods, for cutting Trees to make has the Van; if from the Left, Bridges, for mending the Ways, the Baggage of the Left has the and many other uses. Most of the Van. Each Waggon has a distin-Foreign Regiments of Foot, espe- guishing Flag to show to what

ters with Felling-Axes to march BAGONET is a short broad at the Head of each Battalion: Dagger, formerly with a round and in the Artillery the Carpen- Handle, fitted for the bore of a ters march with their Axes to Firelock, to be fixed there after the Rings that go over the Muzzle of Pike-Axis a Tool carried by the the Firelock, and are screwed Horse. Since this new fort of Bagonets, Pikes are so much out of ule, that all the English Regiments abroad have laid them

is supported by two great Stakes. Cannon, Musquet, or Pistol Can-BAGGAGE-WAGGONS non-balls are of different Diameried; before a March they are gliff Musquet carries a Ball of fix-

A 2 3

twenty four, and a Pistol of thir- in Fortification, being a Foot

loaded with Powder and wadded over. with a green Turf, is spung'd with a wet Spunge, and laid at a gern. small Elevation; that the Ball BARBE, to fire in Barbe, which is taken out of the Forge fignifies firing over the Parapet, with a long Iron Ladle may slide instead of using the Embrasures; time being ready to Fire: it not three foot and a half high. only fires combustible Matter, but Floors and Planks.

and are thrown by Soldiers.

Cases of Wood covered with filled with Bombs, Grenades, and Leather, holding the Charge of other Fireworks, to be rolled Powder for a Firelock; each down a Breach. At the Siege of Musqueteer carries twelve hanging Namure in the Year 1695, several at a Shoulder Belt, call'd a Collar Thundering Barrels were fent from of Bandeleers.

100 L for attending her Majesty for them. on solemn Occasions: They are BARRICADE, a Term now commanded by his Grace sometimes used for a Fence of Pa-

the Duke of St. Albans.

Iron used about the Carriage of a made of wooden Bars about five Gun, fuch as the Nave-bands, foot long perpendicular to the which are Hoops of Iron binding Horizon A, which are kept tothe Nave at both ends. Bands gether by 2 long Bars going aare the Bands that bind the ends cross, and another crossing Diof the Axiltree.

teen in a Pound, a Carabine of BANQUETT is a Term ty two in a Pound; I mean Am- Bank of Earth about a foot and munition-Carbines and Pistols. a half high, and three foot Ball, Red-bot ball, are such as broad, raised on the Rampart are made hot in a Forge standing at the Foot of the Parapet, for near the Gun. The Gun being the Soldiers to mount on to fire

BARACK or Hutt, see Ca-

down, the Gunner at the same the Parapet must not be above

BARM, Berm, or Foreland,

lee Liziere.

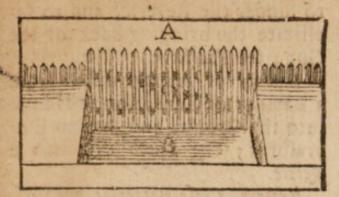
Ball, Fire balls are made of a BARRELS are for several Composition of Meal-Powder, uses in the Artillery, as for Sulphur, Saltpetre, Pitch, &c. Powder, Small Shot, Flint, Sulfor Firing Houses that incom- phur, Salt-petre, Rosin, Pitch, mode Trenches or advance Posts; Quickmatch, and many other

things, fee Casks.

BANDELEERS are small Barrels, Thundering Barrels are Coehorne's Work down hill upon BAND of Pentione's, are a our Trenches, filled with Hand Company of 120 Gentlemen, who Grenades; but they had no great receive a yearly Allowance of a Effect, for the Soldiers made way

lifades.

Bands are likewise Hoops of BARRIERE is a Gate agonally the Cut that is made through 8 or 10 inches at bottom; fo

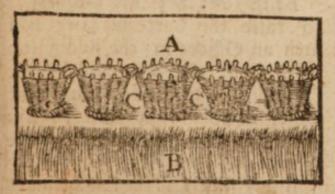


a Town B.

Base, see Cannon.

the Breech of a Gun, and is that Lines and Angles makes the Baings.

BASKETS, Small Baskets of the Place.



rapet of the Trench B, being fil- dy of the Place, and differs from led with Earth. They are about a Half Moon, whose Rampart and a foot and half high, about a foot Parapet are lower and not fo

agonally. They are used to stop and a half diameter at top, and that being fet together, there is a fort of Embrasures, C, left at their bottoms, through which the Soldiers fire without exposing themselves.

BASTION is a Mass of Earth raised on the Angles of the Polygon, composed of two Flanks and two Faces, sometimes fac'd the Esplanade before the Gate of with Brick or Stone. Their distance from one another is about BASE or Basis, is the Founda- 150 English yards: They are of tion of a Work; Basis of a Ram- several forts, as Regular, when part, is where it joins the Ground their Faces are of an equal length, on which it stands; Basis of a their Flanks the same, and the, Parapet, is where it joins the two Angles of the Shoulder top of the Rampart. equal; or Irregular, where that equality is not; or Deform'd, Base of a Gun, is the same with where the Irregularity of the folid piece of Metal behind the stion out of shape. They are Chace towards the Cascabel: the bollow, when only surrounded great Ring behind the Touch-hole with a Rampart and Parapet, or Vent, is called the Base Ring, leaving the space within void and the Mouldings behind that, and empty; or folid, when the are call'd the Base or Breech Mould- space within them is raised of an equal height with the Rampart

Bastion-Flat is when the side of the Polygon being double the ordinary length, a Bastion is raised before the middle of the Curtin, which, because its Capital is short, has the flanked Angle very obtufe, which makes the Gorge large, and

the Bastion very flat.

Bastion-detach'd, is that which A, are used in Sieges on the Pa- is separate or cut off from the Bothick

Aa 4

cause it has the same Proportion ping towards the Embrasure, both with the Works of the Place.

stion raised on the Plain of ano- Gun; see Platform. ther Bastion, and is sometimes in Battery of Mortars differs from

only one Face, one Flank, and brafures; the Dutch call this a

one Demigorge.

Battalion each.

Shot. This Parapet is cut in- the Guns. outfide. The Mass of Earth that it still. is betwixt two Embrasures, is BATTEL is the Engagement

thick as those of the Place, be- Earth, and is always made sloto hinder the Reverle, and to fa-Bastion, Double-Bastion is a Ba- cilitate the bringing back of the

the nature of a Cavalier, see a Battery of Guns, for it is sunk Demi-Bastion is composed of into the Ground and has no Em-

Kettle.

BATTALION is a Body Battery, Cross Batteries are such of Foot, generally 700, not whose Shot meet at the same place including Officers nor Serje and form an Angle. The Advanants, armed with Firelocks (Pikes tage of fuch Batteries is, that the being quite laid aside) Swords one beating down what the other and Bagonets, divided into thir- shakes, they do good Execution. teen Companies, one of which Battery d' Enfilade, is what batters is Grenadiers. The first Regi- in Flank. Battery en Echarpe, is ment of English Guards has four what batters obliquely. Battery Battalions; the second Regiment, de Reverse, is what plays upon the the Regiment of Scots Guards, Enemies back. Comrade Batteries, and the Royal Scots, have each are those which play upon the two Battalions; the rest of her same place. To raise a Battery, is Majesty's Regiments are but one the Business of an Engineer. To bring Guns upon Battery, if it be BATTERY is a Parapet at a Siege, must be in the night thrown up to cover the Gun- time by Men, having Harnels fitners and Men employ'd about ted for that use. To ruin a Batthe Guns, from the Enemies tery, is to blow it up, or to nail

to Embrasures for the Cannon \* Battery-Master; his Business is to fire through; the height of to raise the Batteries; we had the Embrasures on the inside is such an Officer in the Reduction about three foot, but they go flo- of Treland, who was paid by the ping lower to the outfide; their Officer of Ordnance; but that wideness is two or three foot, Office is now suppress'd in Enbut open to fix or feven on the gland, though the Hollanders have

call'd the Merlon. The Platform betwirt two Armies. To thun a of a Battery is a Floor of Planks Battel fometimes shows the Conand Sleepers to keep the Wheels duct and Prudence of a General, of the Guns from finking into the as much as getting a Victory.

Prince

Prince Vaudemont's Retreat from Aarfele to Ghent with a small Ar- tools carried along with my, in the fight of Mareschal Vil. Artillery for the use of the leroy at the Head of upwards of Army, for cutting ways through 80000 Men, that had almost fur. Hedges, &c. and are the same rounded him in the year 1695, when the King was lying before Namure, was one of the greatest Actions done during the late War.

Battel-Array is the Order in which an Army is drawn up at a Review, and is more properly

call'd the Line of Battel.

BAYONET, fee Bagonet. B E D or Stool of a Mortar, is a folidpiece of Oak in form of a Pa-

rallelipiped, bigger or less, according to the nature of the Mordle to receive the Breech, and half the Trunions: on the fides of the Bed are fixed the Cheeks or Brackets by four Bolts of Iron, lee Cheeks.

Bed of a Gun is a piece of Plank laid within the Cheeks of the Carriage upon the middle Tranfuin, for the Breech of the Gun

to rest on.

BEETLES are thick round pieces of Wood of a foot and a half long, and eight or ten inshes diameter; having a Handle of about four foot long; the use of them is for beating or rather fetting the Earth of a Paraper, or about Palifades, by lifting it up a foot or two, and letting it fall with its own weight; they are likewise call'd Stampers, and by Paviers Kammers.

BERM, see Liziere.

BILLS are a fort of Handwith our Hedge-Bills in England.

BIOVAC is a Night Guard perform'd by the whole Army, when there is any Apprehension of Danger from the Enc-

BLINDS are properly every thing that covers the Befiegers from the Enemy, fuch as Wool-Packs, Fascines, Chandeleers. Mantelets, Gabions, Sand-Bags,

Earth-Baskets, &c.

BLOCKADE is the blocking tar, hollowed a little in the mid- up a Place by posting Troops at all the Avenues leading to it, to keep Supplies of Men or Provisions from getting into it, thereby proposing to starve it out, without making regular Attacks upon it; this is call'd forming a Blookade. To raise a Blockade, is to force the Troops that keep the Place block'd up from their Posts. To turn a Siege into a Blockade, is plain.

> BLUNDERBUSS is a thort Fire Arm with a large Bore, very wide at the Mouth, carrying feveral Piftol Balls, proper for the Defence of a Stair case or Door; the shortest fort of them are call'd Mus-

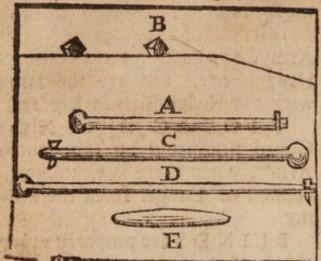
quetoons.

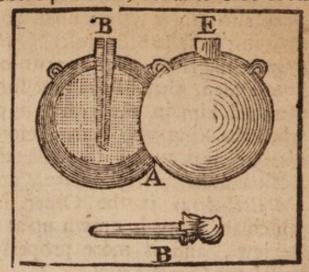
BODY or Main-Body of an Army, are the Troops encamped betwixt the two Wings, and are generally Infantry.

BOLTS, as it is a Term in Gun. nery, are of leveral forts; those

that

that go betwixt the Cheeks of a Meal powder; it takes Fire from





\*keep the Hand-spike from sliding Powder in the Bomb, which bethe help of Coins keep her fix'd which were brought into a Demicall'd Bracket Bolts, C; and the and the River, to be ready against four Bolts that fallen the Brackets the next Attack for our Lodgare call'd Bed-Bolts, D.

Fusee is drove into the Vent within troublesome, and uncertain way. an inch of the Head, and pitch'd Bombs are from 50 to 500 pound over to preferve it. When the weight. Bomb is put in the Mortar, the Bombardeers are those employ'd

Gun Carriage to strengthen the the flash of the Powder in the Transums, are call'd the Transum. Chamber, and burns all the while Bolts A. The large knobs of Iron the Bomb is in the Air; when the on the Cheek of a Carriage which Composition is spent, it fires the when it is poifing up the Breech ing confin'd, breaks the Bomb of the Peece, are 'call'd Prife- with a great Violence, blowing Bolts, B. The two short Bolts up whatever is about it; for the that being put one in each end of great height it goes in the Air and an English Mortar Carriage serve the force with which it falls, makes to traverse her, are call'd Traverse it go deep in the Earth. At the Bolts, E. The Bolts that go thro' Siege of Namure in the year 1695, the Cheeks of a Mortar, and by a Magazine of Hand Grenades, at the Elevation given her, are Bastion between St. Nicolas Gate or Cheeksof a Mortar to the Bed, ment that was upon the Palisades, were blown up by a Bomb from BOMB is a great Shell of cast Colonel Brown's Battery. Iron, A, with a large vent to re- French, Germans, and all other ceive a Fusee. This Fusee, B is made Nations, except the English, from of Wood, and drove full of a whom the Hollanders have taken Composition of Meal, Powder, Sul- it lately, fire the Fusee in the Morphur and Saltpetre. When the tar first, and then fire the Mortar Bomb is fill'd with Powder, the at the Vent, which is a tedious,

Fusee is uncaped E, and salted with about a Mortar; they drive the

Fusee,

Fusee, fix the Shell, and load and BRACKETS, see Cheeks. fire the Mortar; they work with BRANCH of a Trench, is the Fireworkers on all forts of Fire- the same with Boyau. Branch of works, whether for War or Re- a Mine, see Gallery. creation. There is a Chief Bom- BREACH is the Ruin of lerv.

Sea.

confisting of two Faces, having Bread. only a Parapet with two rows of BREAK Ground, is the first Palifades of about 10 or 12 foot opening of Trenches against a distance; it is generally raised be- Place, which is done in the Counterfearp, and has a Commu- fome rifing Ground, hollow Way, a Trench cut through the Glacis Men from the Enemies Fire. and Palisades on each side.

Bonnet a Pretre, or Priests Parapet. Bonnet, is a work in Fortification BREECH of Gun, see Base. differing from a double Tenail in BRIDGE is a conveniency this, that as the fides of a Tenail made for passing Rivers, and is are parallel, those of a Priests of several forts. Bonnet would meet if they were Bridge of Communication is a

prolong'd.

is a Line or a particular Trench which are separate by this River, made parallel to the Defence of have a free Communication one the Place, to avoid being flanked with another. or enfiladed. A Boyau, when there Draw-Bridges are made after feare two Attacks made upon a veral Fashions, but the most com-Place, ferves as a Line of Com- mon are made with Plyers twice munication betwixt them; the the height of the Gate, and a foot Parapet of a Boyau being still diameter; the inner Square is

bardeer, and four and twenty any part of a Fortification by the Bombardeers establish'd in the Of- Cannon or Mines of the Besiegers, fice of Ordnance at a yearly Sal- in order to make an Attack upon the Place. To make the At-Bomb Ketch is a small Vessel tack the more difficult, the Bebuilt and strengthen'd with large sieged sow the Breach with Crow-Beams, for the use of Mortars at Feet, or stop it with Chevaux de Frile.

BONNET is a small Work BREAD, see Ammunition-

fore the Salliant Angle of the night time, by the Advantage of nication with the Covert way, by or any thing that can cover the

BREAST-WORK, fee

Bridge made over a River, by BOYAll or Branch of a Trench, which two Armies or two Forts

turn'd towards the Place besieg'd, traversed with a St. Andrew's it serves for a Line of Contra- Cross, which serves for a Counvallation to hinder Sallies, and terpoize, and the Chains which defend the Work men. hang from the other Extremities

of the Plyers to lift up or let must all attend at orderly time. laid one upon the other, so that Brigade for their Guard. the uppermost by the help of Brigadeers and Sub brigadeers, Ropes and Pullies is forced for- are Posts in the Horse Guards. wards, till the end of it join to Brigade Major, is an Officer apthe place design'd.

fix Battalions, under the Com- gether the Guards, Parties, Demand of a Brigadeer; the eld- tachments and Convoys, and apest Brigade has the right of the point them the hour and place of first Line, and the second the Rendezvous at the Head of the right of the second Line, the Brigade, where the Brigade Major two next take the left of the two takes and marches them to the Lines, and the youngest in the place of the general Rendezvous. Centre. The Battalions which He ought to know the State and compose a Brigade observe the Condition of the Brigade, and Jame Order.

who has the command of a Bri- tants. When a Detachment is to gade; the eldest Colonels are ge- he made, the Major General of nerally advanc'd to this Post, the Day regulates with the Brithey roll in Duty amongst them- gade-Majors, how many Men and felves; he that is upon Duty, is Officers each Brigade must furcall'd Brigadeer of the Day; he nish; and they again with the Adjuvisits all the Out Guards and tants of the Regiments, how many Posts of the Army, and at Night eachBattalion is to send, which the takes the Orders from the Major- Adjutants divide among the Com-General of the Day, and delivers panies The Complements each Regi-

down the Bridge, are of Iron or They march at the Head of their Brass. Floating or Flying Bridges Brigades, and are allowed a Serare made of two small Bridges jeant and ten Men of their own

pointed by the Brigadeer to assist Bridge of Boats, see Pontons. him in the Businels of his Brigade; Bridge in Gunnery is a Term and acts in his Brigade, the same given to the two pieces of Tim- as a Major General does in the ber which go betwixt the two Army. For this Post are chose the middle Transums of a Gun Car- most ingenious and expert Capriage, on which rests the Bed. tains. They are to wait at order-BRIGADE. An Army is ly time, to receive the Word and divided into Brigades of Horse, the Orders which they carry first and Brigades of Foot; a Bri- to their proper Brigadeer, and afgade of Horse is a Body of eight terwards deliver to the Adjutants or ten Squadrons; a Brigade of Regiments at the Head of the of Foot consists of four, five or Brigade, where they regulate tokeep a Roll of the Colonels, Lieute-Brigadeer is a General Officer nant Colonels, Majors and Adjuit to the Majors of Brigades, who ment is to furnish, are taken by the

Adju-

Adjutant at the Head of the each for carrying Powder along with a Regiment at the hour appointed, Gun or Mortar, being less dangewho delivers them to the Brigade- rous and easier carried than whole Major at the Head of the Brigade, Barrels; they are likewise used who again delivers them to the upon a Battery of Mortars, for Major-General of the Day, and he holding Meal-Powder. remits them to the Officer who is BULLETS, all fort of Shot to command the Detachment.

last Rank of a Battalion being are of Iron, the rest of Lead, see the last Man of each File, are Ball.

call'd the Bringers up.

and Leather, are always carried along with the Artillery in the Fire-workers Stores, where they are very uleful.



fmall Barrels well hoop'd, with only one head; on the other end is nailed a piece of Leather to draw together upon Wood holding four or fix

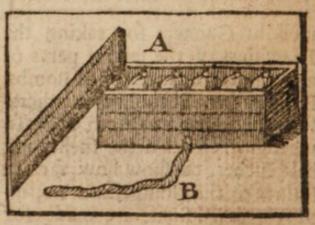
for Fire Arms from a Cannon BRINGERS-UP the whole to a Pistol; those for Cannon

BULWARK is an old BUCKETS both of Wood Term for Rampart, see Rampart.

CADET is a young Gentle-BUDGEBARRELS are man, who, to attain to some Knowledge in the Art of War, and in expectation of Preferment, chuses at first to carry Arms as a private Man in a Company of Foot. Cadet differs from a Volunteer, because he takes Pay, which is no more than a private Man; but a Volunteer ferves without Pay.

Cadet among the French fignifies an Officer, who, in respect of another, is younger in Service.

CAISSON is a Cheft of

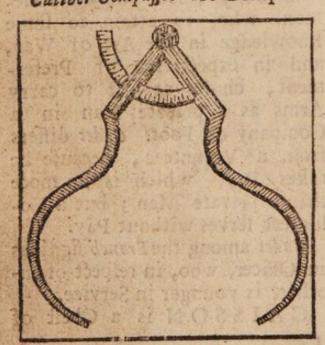


strings like a Purse. Their use is Bombs, sometimes filled only

with

the Besieged under ground, to Feet blow up a Work which the Be- CAMP is the Ground where a fecond time.

piece of Ordnance.



fore Circular on an Arch of Brass, of a Gun or Mortar.

with Powder, and buried by CALTHROPS, see Crow-

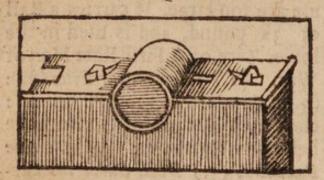
fiegers are like to be Masters of; an Army pitch their Tents. 'Tis as thus, after the Bonnet is marked by the Quarter-Masterblown up by the Mine, they lodge General, who appoints every Rea Caiffon under its Ruins, and the giment their Ground. The chief Enemy being advanc'd to make a Advantages to be minded in chu-Lodgment there, they fire the fing a Camp for an Army, is to Caiffon by the help of a Saucifs or have it near Water, in a Country Pudding, and blow up that Post of Forage, and where the Soldiers may find Wood for dreffing CALIBER is a Term in their Victuals; it ought likewife Gunnery, fignifying the diame- to have a free Communication ter or wideness of the Bore of a with Garrisons, from whence it may have a continual supply of Caliber-Compasses are Compasses Provisions. The Quarter-Master-General in chusing the Camp, ought to confider the Advantages of the Ground; fuch as Hills, rifing Grounds, Marshes, Woods, Rivers and Inclosures; if the Camp be near the Enemy, and no River or Marsh to cover it, the Army ought to be Entrench'd. An Army always encamps fronting the Enemy, and generally in two Lines running parallel about 500 yards distance, the Horse and Dragoons on the Wings, and the Foot in the Centre; fometimes a small Body of two, three or four used by Gunners for taking the Brigades is encamp'd behind the Diameters of the several parts of two Lines, and is call'd the Body a piece of Ordnance, or of Bombs, of Reserve. The Artillery and Bread Bullets, &c. Their Legs are there- Waggons are generally encamp'd in the Rear of the two Lines. A whereon is mark'd the Inches and Battalion of Foot is allow'd 80 or half Inches, to show how far the 100 Paces for its Camp, and 30 or Points of the Compasses are open- 40 for an Interval, betwixt one ed asunder. Some are made for Battalion and another. A Squadron taking the diameter of the Bore of Horse is allowed 30 for its and 30 for an Interval, and more

my are encamp'd.

which carries a Ball of fixty and a half.

more if the Ground will allow it. three pound, to a Base, which is Each Battalion posts a imall the lowest Nature of Cannon. Guard commanded by a Subaltern Those most used in the Army or Officer, about 100 yards before Navy, are (1.) Demi-Cannon; for the Front of the Regiment call'd the Cannon Royal and Baftard Canthe Quarter Guard, for the secu- non are too large. It carries a Ball rity of the Regiment; and each of 32 pound, and is used in the Regiment of Horse mounts a small lower Tire of a First Rate Man of Guard on Foot in the Front of a War. (2.) Twenty four Pounders: Regiment under a Corporal, call'd (3.) Culverins carrying 18 pound: the Standard Guard. The Grand these two Natures of Gunsarethe Guard of the Army confifts of best for Battering. (4.) Twelve Horse, and is posted a mile and a Pounders. (5.) Demi Culverins carhalf from the Camp towards the rying 9 pound Ball; thesemaybe Enemy, on the Right and Left, likewise used at a Siege. (6.) six by the Lieutenant or Major General Pounders. (7.) Sakers carrying of the Day, who chuses the pro- five and a quarter pound Ball. perest Places, from whence all the (8.) Minions of 4 pound, and (9.) Avenues of the Camp may be Three Pounders, which are the lowdiscover'd. At a Siege the Army est Nature of Guns used in the encamp with their Rear to the Field or Navy: these fix last are Place besieged. Flying Camp is properest Field Guns for followthe Ground on which a Flying Ar- ing an Army. The most remarkable parts about a Gun, are the CAMPAIGN is that part of Cascabel, Mouldings, Base-Ring, the Summer betwixt the Armies Vent, Vent-Ring, Reinforc'd-Ring, taking the Field, and their return- Trunions, Dolphins, Trunioning to Garrison, which is common- Ring, Cornish-Ring, Neck, Mulle, ly fix or feven months; an Officer Face, and Chace, or Cylinder; fee or Soldier is said to have made a each in its proper place. Guns Campaign that has been in the longer than ordinary, are call'd Field with the Army, and may Slings, Drakes, &c. as those reckon as many Campaigns as he shorter are call'd Cuts. The length has been Summers in the Field. of a true fortify'd Gun, is about The Opening and Close of the seven diameters of the Metal at Campaign, is the Armies taking the Vent; the diameter of the the Field, or returning to Gar- Metal there being three diameters of the Bore; fo that a 24 Pounder CANNON is a piece of being six inches in diameter of her Ordnance of Brass or Iron, of Bore, the thickness of the Metal feveral forts and fizes, from a at the Vent must be a foot and a Cannon Royal or Cannon of eight, half, and her length thirteen foot

Cannon-Basket, see Gabions. · Canon-Carriages, see Carriages. Sand Bags.



to receive a third part of the Wounded. Trunions, for two thirds are let CAPONIERE is a Keys.

Bastion.

in the Trenches, goes upon the Breach to hear what the Ene-CANVAS-BAGS, see my proposes or would have, if it be to capitulate; the Go-CA.PESQUARE is a vernour sends Deputies to the General to treat, if the Capitulation be agreed to and fign'd; Hostages are delivered on both sides for the exact Performance of the Articles; one part of the Place is deliver'd to the Besiegers, and a day fixed for the Garrison to march out: The ordinary and Term in Gunnery given to that most honourable Conditions are, strong Plate of Iron which to march out at the Breach, with comes over the Trunions of a Arms and Baggage, Drums beat. Gun, and keeps her in her ing, Colours flying, Match light-Carriage; it is fasten'd by a ed at both ends, Ball in Mouth, Hinge to the Prize-plate, that it with some pieces of Cannon and may lift up and down; it forms Waggons, and Convoys for their a piece of an Arch in the middle Baggage and for the Sick and

into the Carriage; and the other Work funk on the Glacis of end is fasten'd by two Iron Wedges, a Place, about four or five which are call'd the Foretocks and foot deep: the Earth that comes out of it ferves to form a Pa-CAPITAL is a Term in For- rapet of two or three foot high, tification, fignifying the Line made with Loop-holes or small drawn from the Angle of the Embrasures; it is cover'd over-Gorge to the Flanked Angle. A head with strong Planks, on Bastion is said to have sixty which are laid Clays or Hurdles yards of Capital, when there is which support the Earth that fixty yards from the Angle of covers all; it holds about 15 or the Gorge to the Point of the 20 Men, who fire thro' these Embrafures on the Besiegers; the Clays CAPITULATION Sare are made sometimes in the bottom the Articles agreed upon be of a dry Moat. At the Siege of twixt the Besieged and the Be- Liste by the French in 1667, the siegers for surrendering a Place. Count de Broway Governour for The Chamade being beat, all Ho- the King of Spain, had funk a stilities cease on both sides, Caponiere on the Salliant Angle of and the Officer who commands the Glacis, towards the Attack of

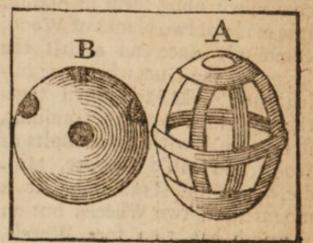
Piu-

Piccardy, which was Palifaded; but CARABINEERS was forced by the Count de St. Regiments of Light Horse, car-Faul, who from thence threw rying longer Carabines than the himself into the Covert way, others, and are used sometimes and made a very advantagi- on Foot; we have none in our ous Lodgment, which discovered Army but in Major-General Winthe whole breadth of the opposite dham's Regiment. Ditch. At the second Siege of CARCASS, A, is an Dole in 1674, the Befieged had a Caponiere in the bottom of the Foise, which could not be ruined by the Batteries. They were much used at the Siege of Candy; they differ from Coffre; fee Cofre.

CAPTAIN in Field Regiments is he who commands a Troop or Company; he ought to be very diligent and careful to keep his Company full of young lufty Soldiers, to know Invention of an oval Form made of his Commission.

Company.

Left Shoulder.



their Names and Dispositions, of ribs of Iron, afterwards filand what every Man is capable led with a Composition of of; to vifit their Tents and Lodg. Meal-Powder, Saltpetre, Sulings, to see what is wanting, phur, broken Glass, shavings of to pay them well, to cause Horn, Pitch, Turpentine, Talthem to keep themselves clean low, and Linseed Oil, and then and neat in their Cloaths, Shoes, coated over with a pitch'd Cloath; Stockings, &c. and to keep it is primed with Meal-Powder their Arms bright: He has Pow- and Quickmatch, and fired out er in his own Company of ma- of a Mortar; the Defign of it is king Serjeants, Corporals and to set Houses on fire. For lifting Ianspesades; he Marches still at it up to put it in the Mortar, it the Head of his Company, and has two small Cords fixed to Ranks according to the Seniority the fides of it. Another fort there is of them, of a late Inven-Captain-Lieutenant, is he who tion for the Sea Service, which commands the Colonels Troop or differ nothing from a Bomb, fave its being fill'd with a Composi-CARABINEisa Fire Arm tion as before, and having Five shorter than a Firelock, and car- holes all primed with Powder and ries a Ball of 24 in the pound; Quickmatch, which takes fire they are carried by the Light from the flash of the Mortar, and Horse, hanging at a Belt over the having fired the Composition, it burns

Holes, Letter B.

ters, Oc.

strengthen'd with three Bolts of Iron, and call'd the Fore, Middle, and Hind Transums; it is mounted on two Wheels, but on a march has two fore Wheels, with Shafts or Limbers added. The parts about a Carriageare the Cheeks, the Transums, the Bolts, the Plates, the Train, the Bands, the Keys and Locks, the Bridge, the Bed, the Hooks, the Trunion Holes and the Capefquare, fee wife the parts of Wheels and Limbers, at Wheels and Limbers.

on purpose for carrying of Mortars and their Beds from one Charge.

place to another.

foot and a half, or two foot dia- right Pocket-hole. meter, for carrying Mortars or CASCABEL is the knob own Carriages cannot go; and are Cannon; the diameter of it is drawn by Men.

burns very vehemently from those of Wood about three inches thick at bottom, girt round CARRIAGE is a general with Marlin, holding about 400 Term for Waggons, Carts, Lit- Musquet Balls, besides six or eight Balls of Iron of a pound Carriage of a Cannon is a long weight; 'tis fired out of a narrow Cart, invented for march- Hobit, a small fort of Moring of Cannon, and for the more tar, and is very proper for convenient using them in Action; defending a Pass. A new fort was it is made of two planks of Wood, made last Spring, much better than commonly once and a half the the former, of a globulal Form, length of the Gun, which are cal- and fill'd with Ball of a pound led the Cheeks, and join'd toge. weight; others were then made ther by three wooden Transums, for the Gans, being of Ball of half or quarter pound weight, according to the Nature of the Gun, tied in form of a Bunch of Grapes on a Tompion of Wood and coated over; these were made in the room of the Partridge Shot formerly uled, and exceed them very far, as some of the French Battalions experimented to their Cost, at the Battle of Blenheim near Hochstet.

CARTRIDGE is a Cafe each in its proper place; see like. of Pastboard or Parchment, holding the exact Charge of a Fire Arm; those for Mulquets, Ca-Block-Carriage is a Cart made rabines or Pistols, hold both the Powder and Ball for the

Cartridge-Box is a Case of Wood Truck-Carriages are two short or turn'd Iron cover'd with Leaplanks of Wood supported on two ther, holding a dozen Musquet Axiltrees, having four Trucks or Cartridges; it is wore upon a Belt, Wheels of folid Wood, about a and hangs a little higher than the

Guns upon Battery, when their of Metal behind the Breech of a the diameter of the Bore of the CARTOUCH is a Case Piece; the Neck of the Casca-

bel.

Breech Mouldings.

CASERNS, see Cazerns.

Bread for the Troops.

CASEMATE, see Cage- Wings of the Army.

mate.

dered with a Parapet cut into of the Enemies Shot.

bel, is what joins it to the Success of a Battle often depends on the Cavalry; their frequent Excursions to disturb the Enemy, CASKS or Barrels are used in to intercept their Convoys, and the Army for carry Meal to destroying the Country, are no be laid up in Magazines, or a- inconfiderable Matters; the Calong with the Army for baking valry is divided into Brigades, as the Infantry, and encamps on the

CAVIN is a natural Hollow, CAVALIER is a great fit to lodge a Body of Troops: Mais or Elevation of Earth of if there happen to be any near a different Shapes, some being Place besieged, they are of great round, and some long Squares, use to the Besiegers; for, by the fituate ordinarily in the Gorge help of fuch a Place, they can of a Bastion, for those which open the Trenches, make Places are raised on the Curtin, are of Arms, or keep Guards of rather Platforms; they are bor- Horse, without being in danger

Embrasures for four, six or CAZEMATE is a cereight Cannon, according to the tain retired Platform in the Flank Capacity of the Cavalier: They of a Bastion, for the Defence of are a double Defence for the the Moat and Face of the op-Faces of the opposite Bastion; posite Bastion; there are some. they defend the Fols, break the times three fuch Platforms one be-Befiegers Galleries, command the hind another, the uppermost of Traverses in dry Moats, scowr which is on the Terre-plain of the Salliant Angle of the Counter- the Bastion, which makes the scarp, where the Besiegers have other two to be called Places Bastheir Counter-Batteries, and en- fes, or Low Places; they are cofilade the Enemies Trenches, or ver'd from the Enemies Batteoblige them to multiply their Pa- ries by a Work of Earth added rallels; they are likewise very to the Angle of the Shoulder, serviceable in defending the Breach of a circular, or sometimes of a and the Retrenchments of the Be- square Form, call'd Shoulder, fieged, and can very much incom- Oreillon, or Epaulment. At the mode the Retrenchments which famous Siege of Candy, the Turks the Enemy make, being lodg'd in having attack'd it regularly on the Bastions, Bethleem and Pani-CAVALRY are the Regi- gra, for fixteen years, after they ments of Horse which serve in the were Masters of all the Out-Army, and may be properly call'd Works about the Town, and theie the Right Arm of the Army, for the two Bastions had suffered the Effect

B b 2

fiegers had made terrible Breaches Mercy of the Enemy, plants a in both the Faces, but never could White Flag on the Breach, or beats lodge themselves, for the Artille- the Chamade to capitulate, at ry of the Cazemates still ruin'd which both Parties cease firing, their Lodgments, and forc'd them and all other Acts of Hostility;

to quit that Attack.

CAZERNS or Baracks, are to or rejected. lodgings built in Garrison Towns CHACE of a Gun, see Cylinfor lodging the Garrison; they der. are built near the Rampart, or in 'CHAIN is a Number of Iron the wast Places of the Town; the or Brais Rings link'd one in an-Baracks or Cazerns lately built in other; an Engeneers Chain for Ireland, are of such conveniency, measuring of Ground, is of a cerboth for the Army and Country, tain number of Links of an ethat they'll perpetuate the Memo- qual length; Chains of a Gun are ry of my Lord Galway, who was of Iron, and very strong, fixed the Projector of them.

Battalion, are the Pikes; Centre used for small Guns.

of an Army, is the Infantry.

CENTINEL is a private Bridge Man in a Company of Foot, Chain Shot, see shot.

tridge-Box.

Curtin, to preferve the Cen- stages deliver'd on both sides. tries from the Weather, fee Guerritte.

der or sacrifice himself, his Garri- Sugar-Loaf, others globical, with

fect of many Mines; the Be- rison and Inhabitants, to the till the Proposals be either agreed

on the Draught-Hooks, and going CENTRE is the middle along the Shafts of the Limbers Point of a Circle; Centre of a to ease them, but they are not

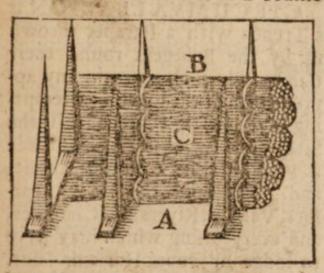
Chains of Draw-bridges, fee

armed with a Sword, Firelock, CHAMADE is a Signal Bagonet, Bandeleers, and Car- made by heat of Drum for a Conference with the Enemy, CENTRY-BOX is the same when any thing is to be prowith Guerritte, only he one posed, as a Cessation of Arms to is of Wood, and the other of bring off the Dead; or by the Be-Stone; they are upon the flank- fieged, when they have a mind to ed Angles of Bastions, and on deliver up a Place upon Articles the Angles of the Shoulder, and of Capitulation; and then there fometimes on the middle of the is a Suspension of Arms, and Ho-

CHAMBER of a Mortar, (for chamber'd Guns are out of use) is CESSATION of Arms, is that part of the Chace where the when a Governour of a Place Powder lies, and is much narbefieged, finding himself re- rower than the rest of the Cylinduced to the last Extremity, der; it is of different Forms; that he must either surren- some are like a reversed Cone or

a Neck for its Communication with the Cylinder, and are cal- fee Carriage. led Bottled Chambers, but the most ordinary are in Form of a Cylinder The Powder Chamber or Bomb-Chamber on a Battery, is a place funk under Ground for holding the Powder or the Bombs, where they may be out of Danger, and preferv'd from Rain.

Chamber of a Mine, is the place in which the Powder is confin'd, and is generally of a cubical Form, see Mine.



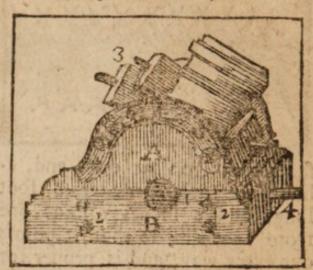
casion requires and serve to co- Mortar is Mark'd 1. ver the Work-men.

CHARG'D-CYLINDER, is tons. that part of the Chace of a Gun, CHEVAUX DE FRISE, or where the Powder and Ball are Turn-Pikes, are Spars of Wood contain'd.

Crow Feet.

CHEEKS of a Gun Carriage,

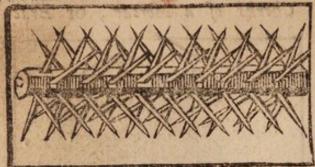
Cheeks of a Mortar, or Bras-



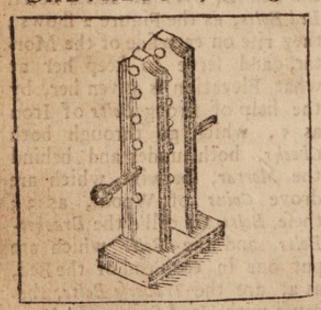
CHANDELEER is a Frame kets, are made of strong Planks of Wood of near a semi-circular Form, bound with thick Plates of Iron A, and are fixed to the Bed B, by four Bolts, call'd Bed Bolts, as the Figure 2 shows; they rife on each fide of the Mortar, and ferve to keep her at what Elevation is given her, by the help of strong Bolts of Iron as 5, which go through both Cheeks, both under and behind the Mortar, betwixt which are of Wood of two large Planks, drove Coins of Wood, as 3; 6 or 7 foot asunder, but paral- these Bolts are call'd the Bracketlel; on each of which is raised Bolts, and the Bolts which are two pieces of Wood perpendi- put one in each end of the Bed, cularly, A, B, betwixt which are as 4, are the Traverse Bolts, belaid Fascines, as C, which form cause with Hand Spikes the Mora Parapet; they are made to tar is by these traversed to the move from Place to Place as oc- Right or Left; the Trunion of the

CHESTS and Baulks, fee Pon-

about a foot diameter, and CHAUSSE-TRAPES, see ten or twelve long, cut into fix B b 3



bout an Inch diameter, 6 foot the Centre. long, and 6 inches distant one Arch of a Circle is an undeterfrom another; so that it points min'd part of the circumference stopping small Overtures, or to be ger and sometimes smaller. placed in Breaches; they are like-Horle.



Faces, and bored through; each other, having a bolt of Iron, which Hole is arm'd with a short spike being put through these Holes higher or lower at pleafure, ferves with a Hand-spike which takes its poise over this Bolt, to raise any thing by force.

CIRCLE is a plain Figure comprehended within a crooked Line, call'd the Circumference, which has all its parts equally dishod with Iron at each end, a- stant from a certain Point call'd

out every way, and is proper for of a Circle, being sometimes lar-

CIRCUMVALLATION is wife a very good Defence against a Trench with a Parapet thrown up by the Besiegers round their CHEVRETTE; among the Camp, when they are in any apprehension of the Enemies attempting to relieve the Place, or raise the Siege. The Engeneers having made a Plan of the Country about, and marked all the Hills, Marthes, Valleys, Rivers and Churches, and every thing which may ferve to lodge or cover Horse or Foot, as Vineyards, Hedges, Ruins of Houses, &c. and agreed which way to run their Line to the best Advantage, shunning always the Foot of rifing Grounds, which the Enemy being Masters of, may many Inventions for raising of command within the Trenches; Guns or Mortars into their Carria- they mark it out with Picquets ges, this Engine is very uteful; it and Ropes, making the Fossabout is made of two pieces of Wood of 12 foot wide, and the Base of the about 4 foot long, standing up- Parapet eight, the height of the right upon a third which is square; Parap t on the infide being fix they are about a foot a funder, and foot, and on the outfide 5, with a parallel; and are pierced with Banquet of three foot wide, and Holes exactly opposite to one an- one and a half high. The Lines of

Con-

same height and breadth, and 6 or 7 foot wide, the length of it both the one and the other ought being from one fide of the Moat to to be strengthned with Forts and the other, with a Parapet of about

Master of an Entry into the siegers. dance on the Inhabitants. Others Horse, Foot or Dragoons, and that must be upon pressing Rea- rity, to assume an absolute Comto batter the Town, or to cover ly exercised, and well payed; thes or Springs of Water, which giment in Arrest, but must acmay be useful to the Inhabitants, quaint the General with it. A because their chief Design is to Colonel is not allowed a Guard, keep the Inhabitants in Subje- but only a Centry from the ction, and to hinder their corre- Quarter Guard. stance from the Town.

which the Linipin goes.

Contrevallation ought to have the bottom of a dry Moat, about Redoubts, and well flanked. two foot high, full of Loop-holes, CITTADEL is a Place for- cover'd over-head with Joysts, tified with 4, 5, or 6 Bastions Hurdles and Earth; they serve to commanding a Town, built by Or- fire on the Besiegers, when they ders of the Sovereign; its being endeavour to pass the Moat, and fortified with Bastions, distinguish- differ from the Caponiere, bees it from a Castle, which hath cause it is longer, for the Capoonly round or square Towers. niere takes not the whole breadth They are sometimes built half of the Moat; it differs likewise within and half without the Ram- from the Traverse and the Gallepart of the Town, to the end the ry, because it is made by the Governour of the Cittadel may be Besieged, and these by the Be-

Town, and likewise to the Coun- COLONEL, is the Commander try, without having a Depen- in Chief of a Regiment, whether are built without the Town, but ought to be a Person of Authoions, fuch as keeping Possession mand, to see that the Companies of a high Ground which the Be- of his Regiment be full, and kept siegers might make use of, either in good Order, that they be dutheir Camp, or to preserve Mar- he may lay any Officer of his Re-

sponding with the Enemy, which COLOURS are large Flags of cannot be done, if built at a di- Silk fixt on half Pikes, and carry'd by the Enfigns; when a Battalion CLAYES, see Hurdles. is encamped, they are stuck before CLOUTS, are thin Plates of the Front of the Battalion, but Iron nailed on that part of the if the Battalion be in Garrison, Axil-tree of a Gun-Carriage that they are lodged with the Colonel or comes through the Nave, through commanding Officer; they are never carried on Detachments, nor CLOY Guns, see to Nail. with the Battalion when it mounts COFFER is a work funk in the Trenches. Field Colours are

B b 4

fmal !

small Flags of about a foot and a ders as he receives from the comfor the Squadrons and Battalions. tain number for his Affiftants.

is a long row of Troops or Bread and Provisions of the Baggage following one another; Army. the first and second Lines of the COMMISSION is the Aumake generally two Columns on General, by which an Officer offia March, filing off either from ciates in his Post. the Right or Left; sometimes COMMUNICATION, Lines of ficer.

is an Eminence or Rifing Ground, the same with Boyau.

overlooking a Post.

COMMISSARY of the Mu- Bridge.

Conductors under him.

Commissary of Horses, is likewise in the Centre. an Officer in the Artillery, ap COMPLEMEMT of a Curpointed to have the Inspection of tin, is that part of it which makes the Artillery Horses, to see them the Demigorge muster'd, and to fend such Or- Complement of the Line of De-

half square, which are carried a- manding Officer of the Artillery, long with the Quarter-Master-Ge- by some of the Conductors of neral for marking out the Ground Horses, of which he has a cer-

Colour-Guard, see Guard. Commissary of Provisions, is he COLUMN of an Army on a march, who has the Inspection of the

Army, as they are encamped, thority from a Prince or his

the Army marches in four, fix, Communication, are Trenches made or eight Columns, according as to preserve a safe correspondence the Ground will allow, and each betwixt two Forts or Posts, or Column is led by a General Of- at a Siege betwixt two Approaches, that they may relieve COMMANDING Ground one another upon occasion, it is

Bridge of Communication, see

fters, is an Officer appointed to COMPANY is a small Body Muster the Army as often as of Foot commanded by a Captain, the General pleases, to know who has under him a Lieutenant the Strength of each Regiment, and Ensign; it consists commonly and of each Company, to receive of 50 Centinels, 3 Serjeants, 3 Corand inspect the Muster Rolls, porals, and 2 Drums. A Company and to keep an exact State of in the Guards is of 80 Private the strength of the Army. Men. A Battalion of Foot con-Commissary of Stores, is an Offi- fifts of 13 Companies, one of cer in the Artillery, who has the which is always Grenadiers: The charge of all the Stores, for Eldest Company take their Post which he is accountable to the next the Grenadiers, who have al-Office of Ordnance; he is al- ways the Right of the Battalion, lowed an Affistant, Glerks and and the Second Company the Left; the youngest has its Post always

fence,

of the Flank is taken off.

Artillery, is a Post of great Truit; cuit. he inspects the Musters of the CONTRIBUTION, is an of Stores, and is accountable to from being plundred and destroy'd

the Office of Ordnance.

stants given to the Commissary tary Motion, which turns the of the Stores, to receive or de- Front of a Battalion where the liver out Stores to the Army, to Flank was, if the Battalion be . the Field; they bring their Ac- ceffary Motion. counts every night to the Com- CONVOY is a Supply of Men, missary, and are immediately un- Money, Ammunition or Provisider his Command.

turning of a Right angled Tri- guard this Supply, are called angle round a Circle, the angular likewise the Convoy.

is a Trench with a Parapet made the Fortification. by the Besiegers, betwixt them and the Place belieged, to fe- for Covert Way. cumvallation and Contrevallation; Lieutenants absence; his princip 4 Siege of Landau we used neither; Enemy.

fence, is the remainder of the but when the French befieged it Line of Defence, after the Angle in 1703, they raised Lines of Circumvallation and Contrevallation COMPTROLLER of the very strong, and of a large cir-

Artillery, makes the Pay-Lift, Imposition or Tax paid by Frontakes the Accompts and Remains tier Countries, to redeem themselves

by the Enemy.

CONDUCTORS are Affi- CONVERSION, is a Miliattend at the Magazines by turns, attacked in the Flank; and as in when in Garrison, and to look Action this may often happen, after the Ammunition-Waggons in it must be a very useful and ne-

ons, convey'd into a Town or to CONE is a Body made by the an Army. The Body of Men that

Point of the Right Angle being CORDON is a Stone jutting out fixed in the Centre, which forms betwixt the Rampart and the Baa Pyramid, whole Basis is a Circle. sis of the Parapet, like the Thore CONTREVALLATION, of a Pillar; it goes quite round

CORIDOR is a French Terra

cure them from the Sallies of CORNET, is the third Comthe Garrison, so that the Troops mission Officer in a Troop of Horse which form the Siege are en- or Dragoons; it is a very honoucamp'd betwixt the Lines of Cir- rable Post; he commands in the when the Enemy has no Army Duty is to carry the Standars in the Field, there is no occa- near the middle of the first Rank fion for the Lines of Circumvalla- of the Squadron, and should ravion; and when the Garrison is ther die than lose it, for it is a weak, the Lines of Contrevallation great Dishonour for a Squadron are feldom used; at the last to lose their Standard to the

COR-

the Muzzle.

wife the Word from such as are Votes. Posts; he carries a Fusee.

CORPS DE GARDE, see the Guns. Guard.

greatest Effort in Sieges, is to and otherwise situated. Arms.

calls together his Lieutenant and Ground. Major-Generals for their Advice Counter-mine is used when the

CORNISH-RING, or Astragal upon some Business of Imporof a Gun, is that small Ring near tance; he hears all their Reasons, and having balanced and confi-CORPORAL is an Inferior dered them judiciously, with re-Officer under a Serjeant in a Compa- gard to the Interest of his Prince my of Foot; he is commonly an old and Honour of his Country, Soldier; he receives the Word without being byass'd by one from the Rounds that pass by the or another Opinion, he deter-Grand Guard; he receives like mines to the greatest number of

stopt by his Centries, with his COUNTER-APPROACHES are Sword drawn; he relieves the the Lines and Trenches made by Centries; and when the Guard is the Besieged, in order to attack relieved, he gives the Orders he the Works of the Besiegers, or to had to the Corporal that is to hinder their Approaches. Counmount, and shows him all the ter-Battery is a Battery raised to play upon another to dismount

Counter Guard is a Work raised COVERT WAY, is a before the Point of a Bastion, space of Ground level with the consisting of two long Faces, pa-Country, about 3 or 4 Fathoms rallel to the Faces of the Bastion, wide cover'd by a Parapet which making a Salliant Angle; they goes quite round the Place; the are sometimes of other Shapes,

make a Lodgment on the Covert Counter march, is an Armies Way, which the Besieged general- turning suddenly their March ly Palisade and Undermine: this the contrary way; which may be Parapet slopes intensibly towards occasion'd by the Enemies endeathe Campaign, and the Talus or vouring to get betwixt them and Sloping, is called the Glacis, their Garrisons, or may be done which the Besiegers are generally to disappoint and amuse the oblig'd to sap through to make a Enemy. A Battalion is said to Lodgment. The Parapet of the Counter-march, when being char-Covert Way is about fix foot high ged in the Rear, they change the with a Panquet, and forms a Front by marching those which Salliant Angle, before the Cur- are in the Front, or the Filetin, which serves for a place of Leaders to the Rear, in place of the Bringers Up. Ranks are faid COHNCIL OF WAR, is to Countermarch, when the when the General of an Army Wings of a Battalion interchange

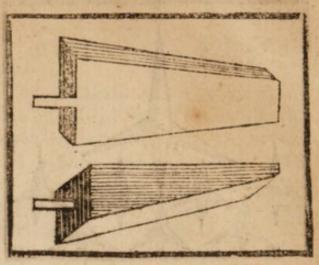
Befiegers have, notwithstanding the Opposition of the Besieged, passed the Foss, and put the Miner to the Foot of the Rampart: They are of two forts, being either made when the Bastion is raised, or afterwards when it is attacked. Those that are made when the Bastion is raised, are carried quite round the Faces of a Bastion; their height is from 4 to 5 foot, and broad enough for a Man to pals easily. The others, which are made in time of Ne- used under the Breech of ceffity, when the Besiegers are Gun, by which a Gunner raises undermining a Bastion, are Pits or falls the Muzzle of his funk deep in the Ground where Piece, till he point it exactly at the Miner is supposed to be, from the Object: Each Gun has three whence they run out Branches in Coins belonging to her. They fearch of the Enemy's Mine, to are for the same use about a Morfrustrate the Effect of it, by either tar, see their Shape in the Figure. taking away the Powder, or cut- CRAB, fee Gin. ting the Train.

tericarp.

Approaches.

take an Oath to do Justice ac- at the Beginning. cording to their Knowledge; the CROW-FEET, Chausse-Traps, Sentence is, after being approved or Caltrops, are Machines of Iron, Army.

COINS are wedges of Wood

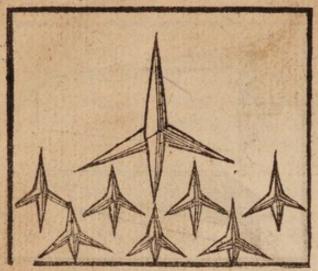


CRIC, fee Fack.

Counterscarp is properly the ex- CROWN-WORK is the terior Talus or Slope of the Ditch, largest of all Out Works, and but it is often taken for the Co encompasses the most ground, vert Way and the Glacis. The having a very large Gorge, Enemy in this fense are faid to generally the length of the have attack'd the Counterscarp, Curtin of the Place, and two or lodged themselves on the Coun-long sides, terminating toward the Campaign in two Demi-Counter Trenches, see Counter- bastions, each of which is join'd by a particular Curtin, to a COURT-MARTIAL is called whole Baftion, which is the by a General to try Offenders; Head of the Work; these Works it is composed of a President are always raised to inclose a rinamed by the General, and of 12 fing Ground, or to cover the Head Members and a Judge Advocate, who of a Retrenchment, fee the Flan

by the General, put in Execu- having four Points of about 3 or tion by the Provost-Marshal of the 4 inches long, so made that which

ever way they fall, there is still a of any part of the Rampart,



Point up; they are to be thrown upon Breaches, or in Passes where Mining. laming them, fee the Figure.

fix Squares, like a Die. Cubical, as Gun is charged, is called the Vaa Cubical Foot or a Cubical Inch, cant Cylinder. is, when the fides of the Squares that make the Cube are a foot or an inch long.

Germans are; we have had no be fortify'd with a Bastion. Cuiraffers in the English Army,

fince the last Revolution.

f inches and a quarter diameter another. of the Bore, and from 9 to 12 Piece.

wherefore Besiegers never make their Attacks on the Curtins, buton the Faces of the Bastions, because of their being defended but by one Flank.

CUNETTE or Cavette is a deep Trench about three or four fathom wide, funk along the middle of a dry Moat, to make the Paffage more difficult to the Enemy; it is generally funk so deep till they find Water to fill it, and is good to prevent the Befiegers

Cavalry are to march, to whom CYLINDER or Chace of a Gun is they are very troublesome, by the Bore or Concavity of a Piece, running into the Horses feet and whereof that part which receives the Powder and Ball, is called CUBE is a Geometrical Figure, the Charged Cylinder, and that being a folid Body bounded by which remains empty after the

D

CUIRASSIERS are Ca- DECAGON is a Figure of valry armed with Back, Breaft, ten Sides or Polygons, forming and Head-Piece, as most of the ten Angles, each of which may

DECAMP is the breaking up from a Place where the Army CULVERIN is a Cannon about has been encamped, to march to

DEFENCE of a Place, are the foot long, carrying a Ball of 18 parts of a Wall or Rampart pound; it is a good battering which flank and defend the rest, as Gun, but is too heavy for a Field- the Flanks, Cazemates, Parapets. and Faussebrays. The Face of a CURTIN is that part of the Bastion, tho it has the simplest Rampart of a Place which is be- Defence of any part of the Fortitwixt the Flanks of two Ba- fication, yet it cannot be stormftions, and is the best defended ed, till the opposite Flank be ru-

ined.

ined. To be in a posture of De- called Minutes, and each Minute fence, is to be in a Condition to into 60 Seconds. refift or oppose an Enemy.

Defence, Line of Defence, see stion

Line.

betwixt Woods or Marshes, for extraordinary Charge. fince they cannot come to relieve Diameter. federate Army of the Emperour, fes to serve it. Spain and Holland, after the Bat- Demi Gorge is that part of the Siege, and defended a Defile Space or Entrance into a Bastion.

luch a narrow Passage.

ference of a Circle; a Degree is siegers. subdivided into 60 equal Parts, DESERTER is a Soldier.

DEMIBASTION, see Ba-

Demi-Cannon is a Gun carrying DEFILE is a narrow Pass which a Ball of 32 pound weight, the obliges an Army to file off; it is diameter of its Bore is 6 inches one of the greatest Obstacles that and a half, and its length from can occur in the March of an Ar- 12 to 14 foot: they are seldom my, especially if it happen to be used at Sieges, because of their

it not only gives an Enemy an Demi-Circle is the half of a extraordinary Advantage of ei- Circle, cut by a Line passing ther attacking the Front or Rear, through the Centre, called the

one another, because of the Demi-Culverin is a Cannon of straightness of the Passage, but it about 9 foot long, the diameter likewise very much impedes the of theBore is 4 inches and a quar-March of an Army. A Retreat- ter carrying a Ball of 9 pound ing Army puts always a Defile weight; it is a very good Field betwixt them and the Enemy to Piece, takes 13 Horses to draw fecure their Retreat, as the Con- it, and two Gunners and 4 Matrof-

tle of Seneff in the year 1673, be- Polygon which remains after the ing at the Siege of Oudenard, and Flank is raised, and goes from the hearing that the Prince of Conde Curtin to the Angle of the Polywas advancing, they raised the gon, It is half of the vacant

which happened in the March of DESCENT into a Moat is a that Prince, so that he could not deepTrench or Sap thro' the Esplawithout a considerable Disad- nade, and under the Covert way, vantage, hinder their faving them. cover'd over-head with Planks and felves under the Cannon of Ghent. Hurdles, and loaded with Earth a-To Defile, is to reduce an Army gainst Artificial Fires, to secure the to a imall Front, to march thro' Descent, which in Ditches that are full of Water is made to the brink DEGREE is properly a Term of the Water, but in dry Moats in Geometry, often uled in Fortifi- the Sap is carried to the bottom cation, to measure the Angles, be- of the Moat, where Traverses are ing the 360th part of the Circum- made to lodge and cover the Be-

who,

who, by running away from his mand to the Dragoons to alight or Regiment or Company, aban- unhorse. rifie others.

jeants; a Lieutenant is allowed at an Object. 30 and a Serjeant; an Ensign 20 DITCH, see Moat. and a Serjeant; and a Serjeant 10 DIVISIONS of a Battalion and Battalions.

DIAMETER of a Circle, is march before the Divisions. a Right Line which passes thro' the Centre and touches the Cir- Brigades. cumference in two Points, diparts.

Cannon, is to break their Carri- number of Bastions. ages, their Wheels, Axiltrees, or any thing else lo as to render them treat, to capitulate with more interviceable.

Dismount, is likewise a Com-

dons the Service; he is by the DISPART of a Gun, is the Articles of War punishable by difference in the thickness of Me-Death, and after Conviction, is tal between the Base and Muzzle hang'd at the Head of the Regi- Ring, and is found thus; take ment he formerly belong'd to, with a pair of Caliber Compasses with his Crime writ on his Breast, the diameter of these two Rings; and suffered to hang till the suppose of an English Demiculve-Army leave that Camp, to ter- rin, the diameter of the Base may be about 14 inches, and that of Detachment is a certain number the Muzzle about 11; the diffeof Officers or Soldiers drawn out rence then is three, half of which from leveral Regiments or Com- is one and a half, which is the difpanies equally, to be employ'd as ference of the thickness of Metal the General pleases, whether on at these two places: The Dispart an Attack at a Siege, or in Par- is a piece of Stick of this length, ties to scowr the Country. A set on the Muzzle Ring, which Detachment of 2 or 3000 Men, makes a Visual Ray or Line is a Command for a Brigadeer, drawn from the Ba'e Ring to the 800 for a Colonel, 4 or 500 for a top of this Stick, an exact paral-Lieutenant Colonel; a Captain ne- lel to the Axis of the Concave Cy. ver marches on a Detachment linder, or to the Soul of the with lefs than 50 Men, a Lieute- Piece, and serves to direct the nant, and an Enfign, and two Ser- Gunner's Eye in levelling his Gun

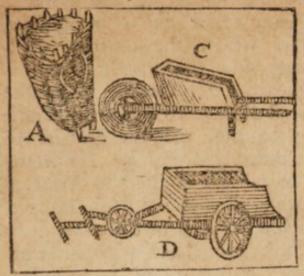
or 12 Men. Detachments are some- are the several Parcels into which times made of entire Squadrons a Battalion is divided in marching; the Lieutenants and Enfigns

The Divisions of an Army, are the

DODECAGON, is a Fividing the Circle into two equal gure bounded by twelve Sides, forming as many Angles, capable DISMOUNT the Enemies of being fortified with the fame

> DONJON, is a Place of Re-Advantage, in case of Necessity.

> > DOS-



Carts and Wheel-barrows for the keep pace with the Cavalry, and fame use, as D. C.

naille.

march into the first, third and Front and Rear of the Army. fifth, so that the fix Ranks are DRAW-BRIDGE, reduced to three, and the Inter- Bridge.

DOSSER, is a fort of Ba- the Files to the Left, is when every other File faces to the Left. and marches into the next; in doubling the Files, the distance betwixt the Files becomes double.

DRAGOON, is a Musqueteer mounted on Horse-back, fighting sometimes on Foot, and ometimes on Horse-back, according as Occasion requires: they are divided into Brigades, as the Cavalry, and each Regiment into Troops, each Troop having a Capsket, shaped as the Figure A shows, tain, Lieutenant, Cornet, Quarterto be carried on the Shoulders, Master, 2 Serjeants, 3 Corporals. and is used in carrying the Over- and 2 Drums, some Regiments plus Earth from one part of a For- have Hauthoges; they are very tification to another, where it is useful on any Expedition that rewanted. There are likewise small quires Dispatch, for they can do the Duty of Infantry. They DONIBLE-TENAILLE, see Te- encamp generally on the Wings of the Army, or at the Passes Double; to Double, is a Word leading to the Camp, and someof Command, as Double your times they are brought to cover Ranks, or Double your Files; don- the Generals Quarters; they do bling of the Ranks, is when the Duty on the Generals of Horse. fecond, fourth, and fixth Ranks and Dragoons, and march in the

iee

vals betwixt the Ranks become DRAUGHT-HOOKS, are double what they were before; large Hooks of Iron, fixt on the but, to double by half Files, is Cheeks of a Cannon-Carriage, two when the fourth, fifth and fixth on each fide, one near the Truni-Ranks march up to double the on-Hole, and the other at the first, second and third, or the Train, and are called the fore and contrary. To double the Files to the hind Draught Hooks. Large Guns Right, is when every other File have Draught Hooks near the midfaces to the Right, and marches dle Transum, to which are fixt the into the next File to it; fo that Chains which ferve to eafe the the fix Ranks are turned into 12, Shafts of the Limbers on a march. and each File is 12 deep. To double The fore and hind Hooks are used

to these Hooks.

over the Mud.

two ends with Vellum, which is passing by. See Kettle Drum. stretch'd or slackned at pleasure DRUMMER, is he that beats Occasions require : As To beat the March it is betwixt the Divisia General, is a fignal for the Army ons. to make ready to march; The Af- DUTY, is the exercise of fembly is the next Beat, which is those Functions that belong to a not to fire till next morning, for and fight an Enemy is called Gofear of alarming the Camp; this ing upon Service.

for drawing a Gun backwards or is about Sun-let, at the firing of forwards by Men, with strong a Gun call'd the Warning piece, Ropes called Draught-Ropes, fixt after which the Centries challenge, and the Picquet-Guard is DREIN, is a Trench made to relieved. The Reveille is beat at draw the Water out of a Moat, break of day, to warn the Soldiwhich is afterwards filled with ers to rile, and the Centries to Hurdles and Earth, or with Fa- forbear challenging. The Alarm feines or Bundles of Rushes and is to call the Soldiers to Arms on Planks, to facilitate the Passage notice of some sudden Danger. To heat a Parley or Chamade, is to DRUM, is a martial Instru- desire a conference with the Enement used by the Foot and Dra- my. To beat a Call, is to advergoons, in form of a Cylinder, hol- tife the Soldiers to stand to their low within and cover'd at the Arms, when a General Officer is

by the means of imall Cords and the Drum; each Company of fliding Knots: some are made of Foot has two Drummers; and a Brais, but they are commonly of Battalion has a Drum Major, who Wood The Drum-sticks are made has the command over the other of hard firm Wood, about 15 or Drums. They are distinguish'd 18 Inches long, tapering towards from the Soldiers by Cloaths of a the point, where there is a small different fashion, generally laced Knob, which by beating against with a Worsted Livery-lace; their the Drum head makes the Sound, Post, when a Battalion is drawn which is different as the feveral up, is on the Flanks; and on a

an Order for the Soldiers to re- Soldier; with this distinction, pair to their Colours; and the that Mounting Guards and the like, March, is to command them to where there is not an Enemy dimove. To beat the Retreat, is for the rectly to be engaged, is called Army to keep to their Tents, and Duty; but their matching to meet

E.

EARTH-BAGS, see Sand- ENFANS-PERDUS, see

Bags.

too much discover'd.

See Battery.

bout it; such places within Can- ing fortified with a Bastion.

the Place.

is sometimes only flanked by round or square Towers, which is called a Roman-Wall.

Forlorn hope.

ECHARPE, To batter en E. ENFILADE; to Enfilade, charpe, is to batter obliquely or is to be Masters of a Ground from fide-ways. The Flanks of Count whence a Post or an Enemy is Pagan's construction may be bat- flanked, so that it may be batterter'd en echarpe, because the Angles ed all along a Right Line. At of the Curtin being so obtuse are the second Siege of Dole in the year 1674, the King of France Echaugette, see Guerritte. caused raise a Battery, which Embrasures, are the Cuts made enfiladed or scowred the whole through the Parapet of a Battery length of the Rampart, and diffor the Muzzles of the Guns, and mounted three Faulconets, which for the Passage of the Shot. the Enemy had planted there. In When a Battery is brought on the conducting the Approaches at a Glacis of a Place, there are thick Siege, care must be had that they planks of Wood Musquet-proof be not enfiladed from any Work to stop the Embrasures, as soon as of the Place, but that they be the Gun is fired, to fave the Gun- carried on with Windings and ners and Matroffes that are employ- Turnings till they are brought to ed about the Guns from the small the Glacis, and then they are car-Shot, which plays continually ried strait forwards, being funk upon them from the Besieged. deep in the Ground, and cover'd over-head.

EMINENCE, is a High or ENNEAGON, is a Figure Rising Ground, which over looks or Polygon of nine Sides, and as and commands the low places a- many Angles, each capable of be-

non-Shot of a fortified Place are a ENSIGN, is the Officer that great Disadvantage, for if the Be- carries the Colours, being the lowest fiegers become Masters of them, Commission'd Officer in a Comthey can from thence fire into pany of Foot, subordinate to the Captain and Lieutenant; it is a EMPATEMENT, see Talus. very honourable and proper Post ENCIENTE, is the Wall for a Young Gentleman, at his or Rampart which furrounds a first coming into the Army: He Place, sometimes composed of is to carry the Colours both in Bastions and Curtins, either faced Assault or Day of Battel, and or lined with Brick or Stone, or should be no ways daunted with only made of Earth. The Enciente Danger, nor should he quit his

CC

Colours

entring into a Place, mounting burg. There is a very good En-Guard, passing a Review, or go- velope before the Port of St. Servais ing to Battel, he should carry at Maestricht. Douay is environ'd his Colours himself on his Left with an Envelope, so is the Town Shoulder; but upon a March may of Zratzein in the Palatinate, yet have them carried by a Soldier, were both taken by the Marquis tho' this is not practifed in the of Cezan, the day that Mareschal

English Army.

Earth made sometimes in the prara, in the year 1674. Some Ditch of a Place, sometimes with- give the Names of Sillon, Counterout the Ditch, sometimes in fa- Guard and Conserves, to such shion of a simple Parapet, and at Envelopes as are made in the other times like a small Rampart Moat; sometimes they are call'd with a Parapet. Envelopes are Lunettes. See Lunette and Sillon. often made to inclose a weak EPAULE, or Shoulder of a Ground, when it is to be done Bastion, is the place where the with simple Lines, to shun the Face and Flank meet, and form great Charge of Hornworks, Te- the Angle call'd the Angle of the nails, or the like, or when they Shoulder. have not Ground for such large EPAULMENT, is a Work Works. The Castle of Namure raised either of Earth, Gabions or has two Envelopes on the South- Fascines, loaded with Earth to West side of the Donjon, one before cover side Ways. The Epaulments the other, composed of two Demi- of the Places of Arms for the and without both these, a large mix'd with Earth. Work extending itself on the top Epaulment, or Square Orilwhich is lituated on a high steep mate. Rock, has three Envelopes one be- EPTAGON, or Heptagon, is Covert Ways before the Moat. The with leven Bastions. Fort Niewerburg in Holland, is fa- EQUILATERAL Figure, traited and palifaded with Stakes equal. as thick as a Man's Body, yet it ESCALADE, see Scalade.

Colours, but with his Life. In was taken by the Duke of Luxem-Turenne gain'd the Battel over the ENVELOPE, is a Work of Duke of Lorrain and Count Ca-

bastions and a Curtin, and call'd Cavalry at the entering of the the first and second Envelopes, Trenches, are generally of Fascines

of the Hill withtwo Demi-bastions, lon, is a Mals of Earth, of near a call'd the Terre Neuve, or New Iquare Figure, taced with a Wall Land. The Cittadel of Besanson, to cover the Cannon of a Care-

fore another towards the Cam- a Figure of seven Sides and seven paign, which serve as so many Angles, capable of being fortified

mous for its Envelope which goes whether Triangle, Square, &c. quite round the Fort, and is is a Figure whole Sides are all

ESCARPE,

Town.

their absence, to the Quarter- fall in Disorder. Masters of Horse, and Serjeants of EXAGON, is a Figure bounded because it would create Abuses. Stions.

when they are obliged to change fore he be fit for the Service. their Form and Disposition, in EXTERIOR-POLYGON, see order to preferve a Post, or occupy Polygon. another to attack an Enemy with

ESCARPE, see scarpe. more Advantage, or to be in a ESPLANADE, is the flo- condition of defending themselves ping of the Parapet of the Covert the better; and confifts in Dou-Way towards the Campaign; it is blings, Counter marches, Converthe same with Glacis, but begins sions, &c. A Battalion doubles the to be antiquated, and is more Ranks when attacked in Front or properly the empty space betwixt Rear, to prevent its being flanked a Citadel and the Houses of a or surrounded; for then a Battalion fights with a larger Front. ESTOILE, see Starr-Redoubt. The Files are doubled, either to ETAPPE, is a French Term accommodate themselves to the for the Distribution of Provisions necessity of a narrow Ground, or and Forrage to an Army in their to refift an Enemy which attacks Rout through a Kingdom, going them in Flank; but if the Ground to Winter Quarters, or returning will allow it, Conversion is much to take the Field. preferable, because after Conver-ETAPPIER, or Undertaker, sion the Battalion is in its first is he that contracts with a Coun- Form, and opposes the File Leaders, try or Territory, for furnishing which are generally the best Troops in their March with Provi- Men, to the Enemy; and likefions and Forrage. The Etappier wife because doubling the Files is to deliver the Etappe to the in a new or not well disciplined Majors of Horse and Foot, or in Regiment, they may happen to

Foot; they are not to give the by fix Sides or Polygons, making Soldiers Money for their Etappe, as many Angles capable of Be-

The Officers take sometimes a EXERCISE, is the Practise fum of Money from the Etappiers, of all those Motions, Actions and and oblige the Soldiers to march Management of Arms, whereby two days march in one, which a Soldier is taught the different haraffes both Men and Horse ex- Postures he is to be in under treamly, and is a great Abuse. Arms, and the different Motions EVOLUTION, is the Mo- he is to make to refift an Enemy, tion made by a Body of Troops, which he must be perfect in, be-

F.

FACE of a Bastion, is the streight Line comprehended be- by Officers, whose Companies are tween the Angle of the Shoulder not full, to muster, and so cheat and the Flanked Angle, which is the Queen of so much Pay. In composed of the meeting of the the late War, by a Proclamation two Faces, and is the most ad- all over the Army, any that could vanced part of a Bastion towards give notice of such an Abuse was the Campaign. The Faces of a Ba- promised a Reward in Money, stion are the weakest parts of a and his Discharge if he defired it; Fortification, being the least and the Officer, who was guilty, flanked. It is therefore there was to lose his Commission, and fend the Passage of the Moat, the punishable with Death. Befiegers meet with less Oppo- FALCON and Falconette, are ed.

comprehended between the Flank- Army, and are now out of use. ed Angles of two neighbouring Bastions, composed of a Curtin, two Flanks and two Faces, and is likewise called the Tenaille of a carry'd along with the Baggage. place. In a Siege the Attacks are See Flags. carry'd against both aftions when the whole Tenaille is attack'd.

Face Prolong'd, is that part of the Line of Defence Ragant, which is betwixt the Angle of the Shoulder and the Curtin, or the Line of Defence Razant, diminished by the

length of a Face.

Face is likewise a word of Command; as Face to the right is to turn upon the left Heel a quarter round to the right. Face to the left, is to turn upon the right Heel a quarter round to the left.

Face of a Gun, is the Superficies of the Metal at the extremity of the muzzle of the Piece.

FAGGOTS, are Men hired where the Breach is generally be rendred uncapable of ever made; for the opposite Flank serving his Majesty; and the being ruined, which should de- Faggot, who was muster'd, was

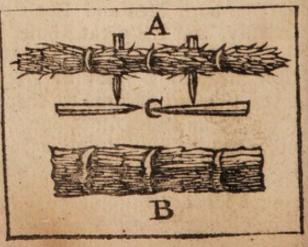
fition than they could expect in small Guns; the first about two attacking any other part of the inches three quarters diameter of Rampart which is better flank- the Bore, and the other two inches; they are too imall to be Face of a place, is the Front of use in the Field with an

FALSE Alarm, see Alarm.

False Attack, see Attack.

FANIONS, are small Flags

FASCINES, are Faggots of fmall Wood, of about a foot di-



ameter

foot of the Wall; they are like- mend the Ways. wife used in making the Sap or FAUSEBRAYE, is a small himself and burnt him, the Fascines Fausebray.

ameter and 6 foot long A, bound of the Traverse being covered with in the middle and at both ends; Raw-Hides. Fascines differ from they are brought by the Cavalry Saucissons, the former being made to the entrance of the Trenches, of small Wood, and the latter of from whence the Workmen carry Branches of Trees B. Fascines are them along to raise Batteries or sometimes ordered to be made by other Works, to make Chandeleers, the Cavalry, before a march over Epaulments, or to fill up the Moat bad Ground, and are carried by to facilitate the passage to the them, each Trooper having one to

Descent into the Ditch, in making Rampart about 3 or 4 fathom Caponeers and Coffers, and many wide, bordered with a Parapet other things; and being used so, and Banquett, the Design of it is are cover'd over with Earth or to defend the Fos; they are not Raw-Hides, to prevent their be- reckoned so useful where there is ing fet on fire. They are used in a dry Moat, because the Besiegers fortifying a Place, especially may make better Works for the where the Earth is bad, to Defence of it than Fausebrayes, bind the Rampart, where they are fuch as Traverses, Scillons, and laid athwart ways and drove Coffers, But in places surrounded down with StakesC, with a Bed of with a wet Ditch, they may be Earth above them, the Fascines more useful, provided they be again and Earth again, till the made only before the Curtin and Rampart be finished; or to keep Flanks, for lying low, they canup the Earth of the Parapet, and not be easily hurt by the Enemies then they're laid length-ways, and Cannon, and defend the Foss betdrove fast with Stakes of 3 or 4 ter, because of their low Situafoot long. There are shorter Fa- tion, than the Rampart, which, scines or Bavins, about a foot because of its height, cannot so and a half long, which being well discover the Foss. They pitch'd over, are to be thrown ought never to be made before the upon a Gallery or other Work Faces, especially in places faced of the Enemy, to set it on fire. with Brick or Stone, because the In the year 1644, when his Royal Breach being generally made in Highness Gaston of France, Duke the Face, the Ruins and Rubbish of Orleans, besieged Graveline, of the Rampart are stop'd in the having made a Passage or Bridge Fausebray, which facilitates the over the Moat with Fascines, a Ascent of the Breach; and in Neapolitan Soldier of the Garrison places lined with Brick or Stone, endeavouring to burn this Tra- the pieces of Stone or Brick fly averse, his Fireworks rebounded on mong the Soldiers that are in the

them at Wheel.

ther than a Troop or Comtany, are Front half Files.

proper to be carried along with Front to march in length. An the Army into the Field, fuch as Army is faid to file off from the are eafter served.

by the Gunners, about the length Sub-divisions. of a Halbert, with a Spear at the FIRE, is a Word of Command,

flanding one behind another, or when the Lines of an Army

FELLING-AX, see Ax. lion or Squadron. The Files of a FELLOWS, are 6 pieces Battalion of Foot, are generally of Wood, each whereof form a fix deep, and those of a squadron piece of an Arch of a Circle of 60 of Horse three. The Files must Degrees, and join'd all together be streight and parallel one to anby Duledges, make an entire Cir- other; to double the Files, is to cle, which, with the addition of put two Files into one, which a Nave and 12 Spokes, make a makes the depth of the Battalion Wheel. See the Proportion of double of what it was in number of Men. The File Leaders are the FICHANT. Line of Defence foremost Men in each File; the Bringers up are the last Men of 'FIELD-OFFICERS, are those each File, or the last Rank of the that have the Power and Com- Battalion; the half File-Leaders, mand over a whole Regiment, is the fourth Rank, because the fuch are the Colonel, Lieutenant- fourth, fifth and fixth Ranks are Colonel and Major, but such call'd the Rear half Files, as the whose Commands reach no fur- first, second and third are the

not Field-Officers. See Officers. To File off, is the same as to Field Pieces, are imall Guns Defile, or to file off from a large 3 Pounders, Minions, Sakers, 6 Right or from the Left, when Pounders, Demi Culverins, and 12 the Squadrons begin to move Pounders, which, because of their from the Right or Left, marchimalness, are easter drawn, are ing one after another, and so rea less Charge, require lesser ducing the two Lines or Ranks of quantities of Ammunition, and the Army to two long Files. A Battalion is faid to file off. Field-Staff, is a Weapon carried when it marches by Divisions or

end, having on each fide Ears to the Foot soldiers to discharge screw'd on, like the Cock of a their Musquets, to the Cavalry to Match Lock, where the Gunners discharge their Carabines or Piferew in lighted Matches when stals, to the Grenadiers to fire they are upon Command; and their Grenades, and to the Gunthen the Field-Staffs are laid to ners to fire the Guns. Running be armed, Fire, is when a Rank of Men FILE, is the Line of Soldiers drawn up, fire one after another, which is the depth of the Batts- are drawn out to fire Victory,

tor

derbusses, &c.



of Iron that they may not roll off, gure at Fire Ball, B. but flick or hang where they are Fire-Workers, are Officers fub-

Arm carried by a Foot Soldier; receive the Orders from the Firethe Barrel of it is about three Master, and not only see them foot eight inches long, the Stock executed, but work themselves ais about 4 foot and eight inches, long with the Bombardeers; there and the Bore is fit to receive a are twenty four Fire Workers esta-Bullet of Lead of an ounce blish'd in the Office of Ord-

for which each Squadron and Bat- Fire-Master, is an Officer who talion takes it from another, from gives the Directions and Proporthe Right of the first Line to the tions of Ingredients for each Left, and then from the Left to Composition required in Firethe Right of the second Line. works, whether they be for Plea-Fire-Arms; under this Name fure-Works, fuch as Balloons, are comprehended all forts of Rackets, &c. or for the War, as Arms that are charged with Fuses, Fire balls, Carcasses, Quick-Powder and Ball, as Cannon, match, &c. or firing of Bombs, Musquets, Carabines, Pistols, Blun- Petards, and Hand Grenades; these Orders are given to the Fire-Ball, is a Composition of Fire-Workers and Bombardeers who execute them. The chief Fire-Master of England, is a Post belonging to the Office of Ord-

Fire Pots, are small Earthen Pots, into which is put a Grenade filled with Powder, and then the Pot is filled with fine Powder till the Grenade be covery Meal-Powder, Sulphur, Salt petre, ed, then the Pot is covered with Pitch, &c. about the bigness of a piece of Parchment, and two a Hand Grenade A, coated over pieces of Match across lighted; withFlax, and primed with a flow this Pot being thrown by a handle Composition of a Fuze, to be of Match where it is design'd, it thrown into the Enemies Works breaks and fires the Powder and in the Night time, to discover burns all that is near it, and likewhere they are; or to fire wife fires the Powder in the Gre-Houses, Galleries, or other Blinds nade, which ought to have no of the Besiegers; but they are Fuse, to the end its Operation then armed with Spikes or Hooks may be the quicker. See the Fi-

defigned to have any Effect. ordinate to the Fire-Masters, but Fire-Lock, or Fufil, is a Fire command the Bombardeers; they Defence of the Face of the same are the Silecon

CC 4

Fireworks, are the Works made Flank Oblique, or Second Flank, by the Fire-Workers, whether for is that part of the Curtin from

War or Recreation.

small Banners of Distinction stuck shows in a Plan upon Paper to in the Baggage-Waggons of the he a good Defence, but is reje-Army, to distinguish the Baggage Eted by most Engineers as no of one Brigade from another, and ways useful for its being ruined of one Battalion from another, at the beginning of a Siege, espethat they may be marshalled by cially if it be of a sandy Earth; the Waggon-Master-General, accor- the second Parapet which may be ding to the Rank of their Bri- raised behind the former, is of gades, where they are to keep du- no use, for it neither discovers ring the March, to avoid the Con- nor defends the Face of the oppo-

Rampart which joins the Face and and the continual Fire of the the Curtin, comprehended betwixt Besiegers Cannon will never suffer the Angle of the Curtin and the them to raise a second Parapet. Angle of the Shoulder, and is the This second Flank defends very principal Defence of a Place. En- obliquely the opposite Face, and gineers have differed very much is to be used only in a Place about raising the Flank, some which is to be attacked by an pendicular on the Line of Defence, binet Engineers. fome give it an Angle of 98 De- Flank Retired, or Low Flank, is their Artillery, for the Flanks are dismount their Guns. Defence of the Face of the oppo- are the Files on the Right and Left. fite Bastion.

whence the Face of the opposite FLAGS, in French Fanions, are Bastion may be discovered. fusion that otherwise would be. fite Bastion, besides it shortens the FLANK, is that part of the Flank which is the true Defence, make it perpendicular on the Face, Army without Cannon, as being some on the Curtin, others per- only a conceited Opinion of Ca-

grees with the Curtin, and Vaubon one of the Platforms of the Cagemakes it the Chord of a Segment, mate, and is sometimes call'd the whose Centre is the Angle of the Cover'd Flank. This is generally Shoulder of the next Bastion; its called the Caremate, when there . use is to defend the Curtin, the is only one Platform retired to-Flank and Face of the opposite wards the Capital of the Bastion, Bastion; to defend the Passage of and covered by an Orillon; these the Moat, batter the Sailliant retired Flanks are a great Defence Angles of the Counterscarp and to the opposite Bastion, and to Glack, from whence the Besieged the Passage of the Moat, because generally ruin the Flanks with the Besiegers cannot see nor easily

the parts of a Fortification which Flanks of an Army, are the the Besiegers endeavour most to Troops encamped on the Right ruin, because of taking away the and Left. Flanks of a Battalion,

one Defence from the opposite utmost. Flank, is counted the weakest.

Flanked-Angle, see Angle.

Army.

Flying-Bridge, see Bridge.

FOOT, are such as list them- FORELAND, see Liziere. called Regiments of Foot.

Lines; 6 foot make a Fathom, like with hot Ball. which is a Measure equal to the FORELORN in French En-

To flank, is to attack and fire Geometrical Pace, 3 foot an Enupon the Flank of an Enemy; it glish Tard, and two foot and a is a very common Term, and ve- half make a Common Pace. To ry essential in Fortification, for all be on the same Foot, is to be in Works that have only their De- the same Circumstances with anfence right forwards are deficient, other. A Regiment is faid to be and must have each place to flank on the same Foot with another, another, and be flanked recipro- when it has the same number of claly, otherwise it is not in Per- Men and the same Pay. To gain fection. The Curtin is the strong- or lose Ground Foot by Foot, is to est part of a Fortification, because dispute a Post resolutely with an it is flanked at both ends by the Enemy, losing it by degrees, and Flanks, and the Face having but defending every bit of it to the

Foot-Bank, is a small step of Earth, on which the Soldiers Flask, is a Horn or such a stand to fire over the Parapet; thing made for carrying of Pow- there are generally two, and fomeder, and has a measure of the times three, but the height of Charge of the Piece for the top. the Parapet from the uppermost FLYING-ARMY, see Foot-Bank, ought always to be four foot and a half. See Ban-

quett.

selves under a Captain to serve on FORGE, is an Engine carried Foot, and are armed with a along with the Artillery for the Sword, Bagonet, Fire lock or Pike, Smiths, and is a travelling Smiths Collar of Bandeleers, Cartridge-Box, Forge. Forge for hot Ball, is the Gc. The Foot are formed into place where the Ball are made Companies, and according to the hot before they be fired off; it is Articles of War, a Soldier is not built of Brick, and hath a Furto leave his Company without nace below, over which are Bars leave from his Officer to go a- of Iron; it is cover'd over-head, bout his own Bufiness, without and the Balls laid upon the Bars being reputed a Deferter, and till they be red hot, and are taken tryed for his Life. These Compa- out with long Ladles to be put in nies are formed into Regiments, the Gun. The Materials for fuch Forges are carried along with the Foot, as it is a Measure, con- Artillery, when there is any detains 12 inches, and each inch 12 fign of burning Magazines or the

Toise in France; 5 foot make a fans Perdus, are Men detached

from

from several Regiments, or other- an Advantagious Post, to fortifie obsolete.

be fewed.

that orders the Method of the Circumvallation. forraging, and posts the Guards FORTIFICATION, is an

wife appointed to make the first the Lines and Quarters of a Siege, Attack in Day of Battel, or at a and several other things. They Siege to be the first in storming are of different Figures, and are the Counterscarp, mounting the made smaller and greater, accor-Breach or the like. They are ding as the Ground requires; called fo from the eminent Dan- some are in the shape of Bastions, ger they are exposed to; but this as the Fort raised on the side of Word is old, and begins to be the Hill of Bouge at Namure, or the Fort raised in 1701, by Coe-FORMERS are of several horne on St. Peter's Hill at Maforts, but the chief is for making stricht, called St. Peter's Fort; Cartridges for Cannon; they are some are fortify'd with entire round pieces of Wood fitted to Bastions, others with Demi-bathe diameter of the Bore of a stions; some are raised on a Gun, on which the Paper, Parch- Square, and others on a Pentament, or Cotton which is to make gon. The Fort de la Lippe near the Cartridge, is rolled before it Wesel, is a Square with four large Bastions, but was taken in FORRAGE, is the Hay, less than one hour by the Prince Oats, Barley, Wheat, Grass, of Conde, in 1672. The Fort St. Fitches, Clover, &c. which is cut Andrew in the Isle of Bommel, is a down and brought into the Camp Pentagon. A Fort differs from a by the Troopers, for the Subfistance Citadel, because this last is alof their Horses; it ought ways raised by the Orders of the to be chiefly confidered by the Soveraign. Small Forts are made Quarter-Master General in en- in form of a Star, having five, camping an Army, that it be in fix or feven Angles, and are raised a Country of Forrage; it is he for the fecurity of the Lines of

for the security of the Forragers. Art by which a Place is put in a Dry Forrage, is the Hay, Oates and posture of Defence, so that every Straw which is delivered out from one of its parts defends and is the Magazines, to the Army in defended by another, and dif-Garrison, or when they take the covers the Enemy in Front and Field before the Forrage be grown Flank, opposing to an Enemy the breadth and depth of a Fols, and FORT, is a Work inviron'd the height and folidity of the on all fides with a Moat, Rampart, Rampart, fo that a small Body of and Parapet; the Defign of it is to Men behind this Wall may be fecure some high Ground, or the able to relift a great Army. Forti-Passage of a River, to make good fication is likewise taken for all

the

be a good Defigner, Architect, strong Defiles, or the like

derstand Gunnery.

or Defences made of Trunks and stronger, and concerns particular-Branches of Trees mix'd with ly the Governours of Places, who Earth, to fecure them from the knowing the weakness and the Violence of an Enemy . this they strength of the Place intrusted to altered afterwards to Walls of them, ought to endeavour to fes Stone, to secure them from fur- cure it from Surprizes and Atprizes; and to refift the Efforts of tacks. Fortification Offensive, has other, behind which they made particularly the General of an cation, is that which is flanked taking of Towns, &c. and defended by Bastions and Out- Fortification Regular, consists in works, and whose Works are so a Place's being regularly fortified, folid, that they are Proof against the sides of the Polygon being of a the force of Cannon, and cannot length, and the Angles equal; in its be beat down, but by a continual being defended by Bastions and o-Fire from several Batteries of ther Works, whose relative parts Cannon.

Works raised by an Engineer, to such an Irregular Situation, as Arengthen the natural Situation renders it incapable of being reof a Place, by repairing and Jup gularly fortified, both because of

the Works that serve to cover or plying its Defects; such as Rave defend a strong Place. It is also lins, Half Moons, Horn-works, Rethe Art by which an Engineer doubts, &c. Natural Fortification makes Plans and Defigns, raifes confifts in a place's being ftrong different forts of Works, digs the by Nature, such as being fituated Foss, faces the Ramparts, and con- on a Hill or in a Marsh, or any ducts the Approaches, either in the other way, which makes it of Attack or Defence of a Place: In difficult Access, whether it be ocshort, it requires an Engineer to casion'd by Rivers, Marshes,

Miner, and Mechanick, and to un- Fortification Defensive, regards the Precautions and the Industry Fortification Ancient, were Walls by which a weak Party oppofes a an Enemy, they raised little Walls a regard to the several Ways of or Parapets on the top of the annoying an Enemy, and concerns use of their Darts in Security, Army in the Field, who deligns being cover'd from the Enemies to lay Siege to some of the Enefight by these small Parapets, mies Towns: this teaches him which they cut into Loop-holes how to take all Advantages and Battlements to facilitate the in marching or encamping his Effect of their Darts, and these Troops, the Order and Dispo-Walls were flanked by round or fitions of Battels, and the mansquare Towers. Modern Fortifi ner of carrying on a Siege, and of

are equal and uniform. Irregular Fortification Artificial, are the Fortification, is when a Town has

the

to the Situation.

FOSS, fee Moat.

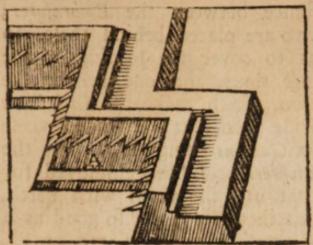
five or fix foot large: the Charge nings well stopp'd. of a Chamber or Fourneau is about FRAISES are pieces of wood

the difference of its sides, some or Barrels, so that the Sauciss or being too long, others too fhort; Pudding may fire them all at once. as likewise because of its being It is left to the Judgment of the furrounded with Precipices, Val- Engineer or Miner to augment or levs, Ditches, Rivers, Hills, Rocks diminish this Quantity as he or Mountains, and must therefore thinks convenient, and to proporbe fortified with Works suitable tion it to the Nature of the Ground or Rock on which the Work is raised, which is to be FOUCADE, Fougade, or blown up; for if a great deal of Fougasse, is a small Mine under a Powder meet with little Resist-Post, which is in danger of falling ance, it makes only a hole by into the Enemies hands, to blow raising the Earth above it with it up; it is thus made; they dig a great Violence. Sometimes they a hole or pit in the ground about make four or five Chambers uneight or ten foot wide, and ten der a Work, and put but a or twelve deep, which is fill'd small Quantity of Powder in each, with Sacks of Powder, upon as 100 ll. or the like. At the which are laid pieces of Wood Siege of Candy, the Turks and Vecross ways, with Stones and Earth netians made Fourneaus under the and whatever else can make a great Rock of the Demi bastion of St. destruction; this is fired by the Andrew, which were charged with help of a Sauciss or Train, which 70 Barrels of Powder. A Fournehas a communication with the au ought not to be charged till it Counterscarp or some other Post. be ready to spring, because the We could not keep footing in the Powder lying too long in the Hu-Half-Moon we had carry'd, because midity of the Earth, loses its of two Fougades sprung by the E- Force. When the Powder is put nemy, which ruined the Lodg- in Barrels, one of the Staves must thent we had made in the Gorge. be taken out, and a quantity of FOURNEAU, Powder-Cham- Powder scatter'd round; if it be ber, or Chamber of a Mine, is a in Sacks, they must be ript and Hole or Cavity made under a Powder strowed about, that they Work, the Top of which is some- may fire all at once. The Mouth times cut into several Points like of the Fourneau is to be stopp'd Chimneys to make more passages with great Planks and pieces of for the Powder, to the end it may Wood, and the Vacancy which is have its Effects on several fides at left, after the Fourneau is charged, the same time; and sometimes it must be fill'd with Stones and is in form of a hollow Cube, about pieces of Wood, and all the Tur-

1000 ll. of Powder put into Sacks of fix or seven foot long, planted

under

which are not faced with Stone or the Foot.



A in the Figure.

the Musquetters round with the Bomb. Pikes, that if they should be char- FUSIL, see Firelock. cade.

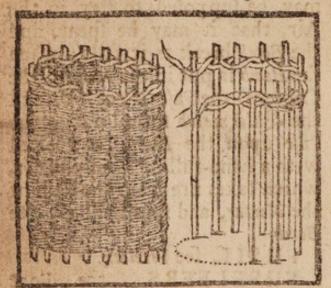
under the Cordon; and in places the Horse, and the Serjeants in

Front of a Place, is the same as the Face of a Place, or the Tenaille, being all that is contained between the Flanked Angles of two neighbouring Bastions, viz. the two Faces, two Flanks and the Curtin.

FUSE is a Pipe of Wood drove full of a Composition of Meal Powder, Salt Petre and Sulphur, having some Threads of Brick, they are planted at the Quick-match fixed in the top of Base of a Paraper, being let about it. When it is used it is drove half way into the Rampart; they into the Bomb, being first cut acare not laid parallel to the Bale cording to the Distance the Bomb of the Rampart, but a little sloping is to be thrown, and the time it downwards with their Points, may be supposed to stay in the that Men cannot stand on them; Air, that it may be spent, and their chiefest use is to hin- the Bomb break as it falls; when der the Garrison from Deserting, the Bomb is put in the Mortar, the which would be easie without Cape of the Fuse is cut off, and them, especially in Places with the Quickmatch spread out of the dry Moats. They likewise pre- Fuse upon the Bomb, and salted vent Surprizes and Escalades. See with a hand-full of Meal-powder. which takes fire from the flash of To Fraise a Battalion, is to line the Mortar, and fires the Fuse. See

ged with a Body of Horse, the FUSELEERS, are Foot Pikes being presented, may cover Soldiers armed with Fusees, with the Musquetteers from the shock of Slings to sling them. There are the Horie, and serve as a Barri- four Regiments in our Army, which have always been called FRONT of a Battalion is the Fuseleers; and go by the Name of first Rank or the File-Leaders; it the English, Scotch, Irish and is likewise called the Face or Head Welch Fuseleers, but now we of a Battalion. Front of a Squa- have none but Fuseleers abroad, dron is the first Rank of Troopers. for the Pikes are quite laid aside. Front of an Army is the first row The first Design of Fuseleers, was of Tents in the first Line, which to guard the Artillery, for which are the Quarter-Masters Tents in End the Regiment of English Fuse-

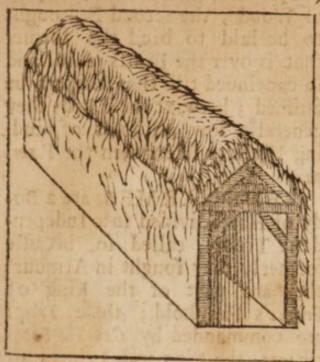
Charles O Hara were first raised a breast, which makes the dito supply the want of Pikes, stance between the Embrasures; and to fecure themselves against two are placed behind these, so Horse. The Fuseleers used to carry as to cover the Joinings of the Turn-pikes along with them, which first three, and one behind the in a Camp were placed along the two, which make the Embrasure front of the Battalion, and on a wide enough at the outfide, these March were carried by the Sol- fix Gabions being the Merlon; the thort Pikes, and two by turns that use, fill them with Earth, put together.



in the Ground in a Circle, which gure. Branches, Leaves and all, and af- is a covered Walk made of strong sometimes used in making Batte. ting the Miner to the Foot of the vies, and are brought empty to Rampart: sometimes the Gallery

leers now commanded by Sir the place, and placed three diers, each carrying one of the Pioneers or Soldiers employed for the Sparr through which they are but they are never fo good as a thrust, so that they were quickly Battery raised of Earth or Fafcines, because, if there be a Counterbattery to play upon them, they are eafily ruined. Sometimes they are used in making GABIONS, are Baskets of 5 Lodgments on a Post, and sometimes in making the Parapet of the Approaches, especially when the Attack is carrying on, thro' a rocky Ground. At the Siege of Namure in the year 1695, the third night after opening the Trenches at the Village of Bouge, the Ground was to strong and full of Rocks, that we were forced to use Gabions, and to bring the Farth a great way to fill them. When the Approaches are got near the Covert Way, the or 6 foot high, and 4 or 5 broad, Besiegers endeavour to set the Gaequally wide at top and bottom; bions on fire by imall Fascines or they are made of pieces of Wil- Bavins pitch'd over, which they low of about fix foot long, fluck throw upon them. See the Fi-

they work round with small GALLERY for passing a Moat, terwards fill them with Earth to Beams, and cover'd over-head with make a Cover or Parapet betwixt Planks, and loaded with Earth: them and the Enemy; they are 'twas formerly used for put-



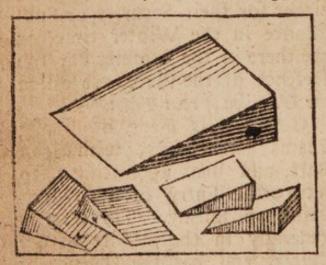
iquet Proof. It is made in the the Garrison of that Town. roll off. See the Figure.

is covered over with Raw-Hides, Besiegers carry each of them Branches under ground in fearch of each others Mines, which often meet and destroy one another. or at least disappoint the Effect of the Mine. Our Miners having heard those of the Enemy, fixed a Petard in their Gallery, which pierced into the Enemies, and cast fuch a Smoak as stifled most of the Work-men. See Mine.

GARRISON Town, is a strong Place, in which Troops are quartered, and do Duty for the Security of the Place; keeping strong Guards at each Port, and a Main Guard in the Market Place. The to defend it from the Artificial Troops that are put into a Town, Fires of the Besieged. The Galle- either for their Security or Subry ought to be very strong of sistance in the Winter time, or double Planks on that fide to- are there in the Summer for the wards the Flank, to make it Mu- Defence of the Place, are called

Camp, and brought along the GATE, is made of strong Trenches in pieces to be join'd to- Beams and Planks, with Iron gether in the-Foss; it ought to Bars, and turns upon Hinges, to be eight foot high, and ten or secure the Entry of a Town atwelve wide; the Beams ought to gainst an Enemy. The Gate is be half a foot thick, and two or generally in the middle of the three foot afunder; the Planks Curtin, and has the Defence of or Boards nailed on each fide, both Flanks; those which are in and filled with Earth or Planks the Flank, weaken the most nein the middle; the covering to cessary part of the Fortification, rife with a ridge, that what is and when they are in the Face, thrown upon it by the Besiegers they are still more prejudicial to with a Design to burn it, may the Bastion, which ought to be clear, to make Retrenchments upon Gallery of a Mine, is the same as Occasion. The Gates of a strong Branch of a Mine, and is a Passage Place are shut about five a Clock under ground of three or four in the Winter, fix in the Spring, 100t wide under the Works, and seven or eight in the Sumwhere a Mine or Countermine is mer, and are opened at seven, fix carried on. The Belieged and the and five. At the opening of the

Gates, a Party of Horse is sent Bed of Gazons is fixed with pegs to Patrouille in the Country round of Wood; the second Bed ought the Place, to discover Ambuscades to be laid to bind the former or Lurking Parties of the Enemy, that is over the Joints of it, and and to see if the Country be so continued till the Rampart be clear. In some Garrisons the finished; betwixt these Beds they Guard mounts at the opening of generally fow all forts of bindthe Gates, so that in case of a Sur- ing Herbs to strengthen the Ramprize, both the Old and the New part Guards being under Arms, they GENS-D'ARMES, are a Bogiven, till after the Gates are they are part of the King of the Town, that may carry Intel- are commanded by Captain Lieuligence to the Enemy.



makes a Triangle; to the end, that Kettle-Drums, and two Trumpets. being mixt and beat with the GENERAL of an Army, is

are in a Condition of ma- dy of Horse divided into Indepenking a good Defence. The Word dant Troops, called fo, because nor the Orders ought never to be formerly they fought in Armour; thut, for fear of Spies lurking in France's Houshold; these Troops tenants, the King and Princes of GAZONS, are Sods or pieces the Blood being their Captains; the King's Troop, besides a Captain-Lieutenant, has two Sub Lieutenants, three Enfigns, and three Guidons. The other Troops which are those of the Scots Gendarmes, the Queen's, the Dauphin's, the Gendarmes of Anjou, Burgundy, the English and Flemish Gendarmes, and those of the Duke of Orleans, are called the Small Gendarmery, and have each a Captain-Lieutenant, Sub-Lieutenant, Enfign, Guiof fresh Earth covered with don, and Quarter-Master. They Grass, about a foot long, and carry a Standard longer than the half a foot broad, cut in form of Light Horse, and divided into a Wedge to line the Parapet; two Points a little rounded, geif the Earth be fat and full of nerally adorn'd with some Device Herbs, it is the better; they are or Cypher in Embroidery and a made so, that their Solidity Fringe; each Troop has a pair of

rest of the Earth of the Rampart, he who commands in chief, and they may easily settle together is the same in an Army as the and incorporate in a Mass with Soul is in the Body; for as all the rest of the Rampart. The first the Actions of the Body proceed

from

from the Motions of the Soul, so aversion to Flattery; to make my, of their Strength and Designs, to secure his Convoys. and cannot know which way Extent, and requires a particular to take his Measures; he ought Care, because it is on him the therefore to encourage his Spies, Sovereign reposes the Care of all and to have such as he knows his Army. His Royal Highness are more inclin'd to him than Prince George of Denmark, is now to the Enemy. A General ought Captain General of all Her Majelikewise to be naturally in- sty's Forces by Sea and Land, and clin'd to great Enterprizes, to be his Grace the Duke of Marlborough,

that great number of Regiments himself beloved by every body, by ought to do nothing but by the treating his Officers with Civilia Orders of the General; who ought ty, hearing their Reasons, and to be a Man of Courage and praising and rewarding good Conduct, to have a great Expe- Actions, and punishing Crimes; rience, to be of good Quality, he ought notwithstanding to be and Liberal; his Valour makes rigorous and severe upon Occahim a Terror to his Enemies, and fion, in feeing his Orders punctuupon his Conduct depends the ally observed, otherwise Military Safety of the Army, therefore I Discipline would be loft. The think it the greater Qualification; Function of a General, is to regufor Bravery without Conduct, late the March of the Army and has often brought things to Extre- their Encampment, to visit the A General's Conduct ap- Posts, to command Parties for pears in establishing his Maga- Intelligence, to give out the Orzines in convenient Places, in ders and the Word every night examining the Country, that he to the Lieutenant and Major-Genedo not engage his Troops too far, rals; in day of Battel, he chuses without knowing which way to the most Advantagious Ground, bring them off, and to subsist makes the Disposition of his Arthem, and in knowing to take my, posts the Artillery, sends off the most Advantagious Posts, the Baggage to a place of Securieither to fight or shun a Battel at ty, and sends his Orders by his his Pleasure: His Experience Aid de Camps, where there is Ocmakes his Army have such Con- casion. At a Siege, he causes to fidence in him, that they reckon invest the Place; he views and themselves sure of Victory before observes it, orders the making of they engage: His Quality begets the Lines of Circumvallation and a greater Respect, and augments Contrevallation, and making the his Authority: His Liberality Attacks; he visits often the gets him Intelligence of the Ene- Works, and makes Detachments without which he is in the dark, Charge of a General is of a great a lover of Glory, and to have an Captain General of Her Army,

Dd

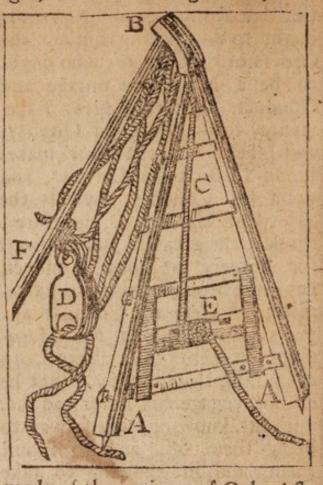
that

that acts in Conjunction with the ages, or dismounting them; it is Emperour and the States General.

General of Horse, and General of Foot, are Posts next under the General of the Army, and ought to be in the hands of Men of a fingular Merit, who, by their Birth or good Qualifications, have rendered themselves deserving of so great an Employ. They have an absolute Command over all the Horse or Foot in an Army, upon all Occasions, above the Lieute-

nant-Generals. General of the Artillery or Master-General of the Ordnance, is one of the greatest Employs in the Kingdom, being a Charge of great Trust; it is generally bestowed on one of the first Peers of the Kingdom, and is at present en. joyed by his Grace the Duke of Marlborough; he has the Manage. made of three pieces of Oak, Ash, ferviceable or useful in the Artille- are wide afunder at bottom, as A. ry, and to distribute the Vacancies A, and join at the top, on a strong to fuch as are qualified for them; piece of Wood crooking forwards, and has for his Allfants in that called the Head, B, in which are Employ, a Lieutenant-General, three Pullies of Brass, over which who commands in the absence of comes a Rope, C, called the Ginthe General; a Surveyor General, Rope, which goes likewise through Deliveries, who are called the piece of Wood, called the Block, Principal Officers of the Ord- D, and returns through the Head nance; they meet three times a down the back of the Gin, and cerns of the Ordnance.

the Drum, fee Drum.



ment of all the Ordnance of the or other strong Wood, of about Kingdom, and ought to know 14 foot long, two of which are and confider whatever can be join'd by Transums, but so that they Clerk, Store-keeper, and Clerk of other Pullies in a short strong week at the Tower, about the Con- goes round a Windlace, E; the other piece is round, F, one end General, is likewise a beat of of it goes into the Head, and the other stands on the Ground, so that GIN or Crab, is an Engine for the three make a Triangle; it is mounting Guns on their Carri- called the Pye; when a Gun is to

be mounted, there is a strong Demi-gorge; there is a Proportion Rope tied through the Block and to be observed betwixt the Gorge the Trunions, so that the Windlace and the other parts of the Fortifibeing turned round, the Gun is cation, as the Curtin and Flanks; lifted up and placed in her Car- if the Gorge be too large, the riage with eale.

by an Enemy. To get or gain and a long Flank always is better Ground, is to have the Advan- than a large Gorge. If the Gorge

them from a Post.

Affault.

GORGE of a Bastion, is that on them. space which is taken equally on GORGET, is a piece of Brass each fide of the Angle of the Fi- or Silver worn by Officers upon gure on the fides of the Polygon, Duty upon their Breast, hanging

Flanks must be shorter, which is To give Ground, is to retire or a great fault, they being the quit a Post, when it is attacked principal Defence of the Place, tage of the Enemy, and to force be too small, the Bastion is likewife contracted fo imall, that GIACIS, is that Mass of there is no ground left to entrench Earth which serves as a Parapet to behind the breadth. Gorge of a the Covert Way, which flopes ea- flat Bastion, is a right Line which fily towards the Campaign, the terminates the distance between difference betwixt Talus and Gla- two Flanks. Gorge of a Half cis, is, that in the one the height is Moon, is the distance between the more than the Base of the Slope, two Flanks, taken on the Angle and in the other, the Base of the of the Counterscarp. That of a Slope is more than the height; Ravelin, is the distance between the breadth of the Glacis is gene- the two Sides or Faces towards nerally the length of the Flank, the Place; the Gorges of all other but the largest are the best; it is Out-Works, are the Entry into likewife called Esplanade, but them from the Place, or the dithat Word begins to be out of use stance between their Sides, and The Soldiers corruptly call the top ought to be without a Parapet, of the Glacis the Counterscarp. When only plain, for fear the Besiegers the Approaches are brought to the being Masters of the Work, foot of the Glacis, they are so should find there a Cover from near, that they cannot turn any the Fire of the Place; yet they way but they must be entiladed, are sometimes palifaded to pretherefore they are carried straight vent a Surprize. In a Siege they forwards by Sap, unless it be re- are generally undermined, that folved to carry the Covert Way by they may be blown up before the Enemy can make a Lodgment up-

which makes the Entry into the round their Neck in a Riband; Bastion from the Town or Place, they are sometimes gilded, haone half of which is called the ving fome Device engraved on

Dd 2 them,

his Crest, or his Cypher.

great Trust reposed in him, and Battalion, and wear high Caps; brave, knowing that it is more Grenadiers, which takes always Honour to defend one Town, the right of the Battalion. than to take two, because the Holland each Company in a Regiber of Men, is greater with the which being drawn out together visions, and to have Registers of Troop consisting of 145 Men. all the Stores, and to neglect no- GRENADE, is a Shell of thing which tends to the Defence Iron filled with fine. Powder, of the Place, because he must an- which being fired, bursts the Mefwer for it at the peril of his tal in pieces amongst those that Head. His Charge is to order are near where it falls, who are Patrouilles, to give every night run the hazard of having their the Orders and the Word after Legs and Arms broke and spoil'd. the Gates are thut, to visit the The Grenade has a Vent to re-Soldiers do their Duties, and to the same Composition with that fend frequently Parties abroad of a Bomb, that the Grenade may for Intelligence, and to raise Con- not break in the Hand of the tribution.

GRENADIER, is a Foot ed.

them, as the Colonel's Coat of Arms, Soldier armed with a Sword, Firelock, Bayonet, and a Pouch to hold GOVERNOUR, is a very his Grenader; they are cloathed confiderable Officer, and has a differently from the rest of the ought to be very vigilant and each Regiment has a Company of abundance of Provisions and num- ment has five or fix Grenadiers, Besiegers than in the Garrison, the form a Company. The Grenadiers former being likewise Mastersof the are generally the tallest and brisk-Country, and the others shut up. est Fellows, and are always the He ought to be always prepared first upon all Attacks: When there for a Siege, to have a particular is any appearance of Action, Care of the Ramparts, Parapets, each Grenadier carries three Hand and other Defences of the Place; Grenades. Horse-Grenadiers, calthat the Foss or Moat be kept led by the French Grenadiers-Voclean and in good Order, and the lans, or Flying-Grenadiers, are Out-Works in good Repair, and fuch as are mounted on Horsewell Palisaded; he ought fre- back and fight on Foot; their Ex quently to visit the Magazines, ercise is the same with the other to see that every thing be in Or- Grenadiers; we had last War a der, and whether there be a suffi- Regiment of Horse-Grenadiers joinciency for a Siege; to confider the ed to the Guards, but fince the quantity of Grain and other Pro- Peace they are reduced to one

the Guards, the Rounds, and the obliged to quit their Post, or Posts, to see that both Officers and ceive a Fuse, which is made of Grenadier before it be deliver-

vice which ought to be perform- that should mount that day, ed with a great deal of Vigi- serve as an Advance Guard to the lance, to secure all from the Ef- Army; if a Body of Foot be forts and Surprizes of an Enemy. marching, their Advanc'd-Guard In a Garrison the Guards are re- are Foot. In small Parties, 6 lieved every day, and it comes to or 8 Horse are sufficient, and are every Soldiers turn once in three not to go above 4 or 500 yards days, so that they have two before the Party. An Advanc'd-Guard; to be upon Guard, to go of 12 or 16 Horse, under a Corupon Guard, to mount the Guard, poral or Quarter-Master, which are lieve the Guard, to change the the Camp. Guard, the Officer of the Guard, Rear-Guard, is that part of the or the serjeant of the Guard, are Army which brings up the Rear. Words often used and well which is generally the old Grandknown.

from whence all the other small that march about 4 or 500 paces Guards are detach'd; those which behind the Party. The Advanc'dare to mount the Guard, meet at Guard going out upon Party, the respective Captain's Quarters, make the Rear-Guard in their and are carried from thence to the return. Parade; where, after the whole Grand-Guard, are 3 or 4 Squa-Guard is drawn up, the small drons of Horse commanded by a Guards are detach'd for the Ports Field Officer posted before the and Magazines, and the Subaltern Camp on the Right and Left Wing Officers throw Lots for their towards the Enemy, for the fe-Guards, and are subordinate to curity of the Camp; this Guard the Captain of the Main Guard. mounts every morning about 7 The Guards are mounted in Gar- or 8 a Clock; fee Camp. risons at different hours, accor- Quarter-Guard, and Standardding as the Governour pleases, Guard, see Camp.

GUARD, is a Duty or Ser- their March, the Grand-Guards nights in Bed, and a third upon Guard is likewise the small Body to dismount the Guard, to re- posted before the Grand Guard of

Guards of the Camp. The Rear-Main-Guard, is the great Guard Guard of a Party, is 6 or 8 Horse

but the most usual is at the Picquet-Guard, is a certain opening of the Gates at ten a number of Horse and Foot which Clock, or at two in the After- are to keep themselves in a readiness in case of an Alarm; the Advanc'd-Guard, is the Party Horse keep their Horses saddled, of either Horse or Foot that and are booted all the time, march before a Body, to give in order to mount in a minute. them Notice if any Danger ap- The Foot draw up at the Head of pears; when the Army is upon the Battalion, at the beating of

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in a readiness.

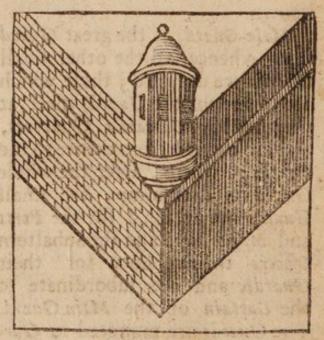
fent out to secure the Forragers, for the Guards of her Majesty and and are posted at all places, where her Palace; there are two Regieither the Enemies Party may ments of them, called the First and come to disturb the Forragers, or Second Regiments of Guards, the they may be spread too near the one having four Battalions, and wife called the Covering Party, Scots Guards is likewife two Batand marches generally the night talions. before the forraging, that they may be posted in the morning before the Forragers come; they confift both of Horse and Foot, and must stay at their Posts till the Forragers be all come off the Ground.

Artillery-Guard, is a Detachment from the Army to fecure the Artillery; their Corps de Garde is in the Front, and their Centries round the Park; this is a 48 hours Guard, and upon a March they go in the Front and Rear of the Artillery, and must be fure to leave nothing behind; if a Gun or Waggon break down, the Cap- small Tower of Stone or Wood,

more Officers.

the Tattou; but return to their with the Guard of the Queen's Tents, where they hold them- Body, divided into three Troops, selves in a readiness to march, called the Troops of Guards; each upon any sudden Alarm; this Troop hath a Colonel, z Lieutenantforms a good Body able to make Colonels, a Cornet, a Guidon, 4 Exons, a Resistance, till the Army can be Brigadeers, and Sub-brigadeers, and 160 Private Men. The Foot Guards, Forrage-Guard, is a Detachment are Regiments of Foot appointed Enemy and be taken; this is like the other two; the Regiment of

GUERITE, is a fort of



tain is to leave a part of his generally on the Point of a Ba-Guard to affift the Gunners and stion, or on the Angles of the Matroffes in getting it up again. Shoulder, to hold a Centinel, who Corps de Garde, are soldiers en- is to take care of the Foss, and to trusted with the Guard of a Post watch to hinder Surprizes; some under the command of one or call Echaugette those which are made of Wood and are of a Guards; the Horse-Guards, are square form, for the Guerites of Gentlemen chosen for their Bra- Stone are roundish, and are built very and Fidelity, to be entrusted half without the Wall, and terought to be at the Cordon, that Staff is armed with Match, and a the Centinel may discover along Linstock stuck upon his Gun, the Faces, Flanks, and Curtins, with a light Match; his Business and all along the Foss: they is to lay the Gun to pass, and ought to be about fix foot high, to help to load and to traverse and their breadth three and a her. half.

GUIDES; Captain of the Guides, is an Officer appointed for providing Guides for the Ar- HAIR-CLOTHS are large my, of which he ought to have pieces of Cloth made with half always a sufficient number with Hair; they are used for covering him, that know the Country ve- the Powder in the Wagons, or upry well, to send out as occasion on Battery; as likewife for corequires; such as are to guide the vering fixed Bombs or Hand Gre-Army on a March, for Convoys, nades; and are for feveral other Parties, Baggage, Artillery, and uses in a Magazine. Detachments; to provide which, HALBARD, is the Arms he ought to have a Party of carry'd by the Serjeants of Foot Horse to go to the Adjacent Vil- and Dragoons; the Head of the lages, Castles or Forts, to demand Halbard ought to be a foot or 15 · Guard for fear they make their the other broad, ribb'd in the which the Army is.

itself.

GUN, see Cannon.

the Guns, and when there is any and Files of a Battalion, and like-

minate at a Point below, which Apprehension of Danger, his Field-

H

Boors, whom he brings to his Inches long; one end ought to be Quarters, and keeps under a hollow to receive the Staff, but Escape, till the Army come to middle, edg'd on both sides, and another Ground, where he can be drawing to a Point, like the point provided with others: He ought of a two-edged Sword. On one to understand several Languages, side of the Head is likewise fixed especially that of the Country in a piece in form of a Half-moon or Star, and on the other a broad GUIDON, is a French Term Point of 4 Inches long, crooked for him that carries the Standard a little, which is very commodious in the Guards or Gens d'Armes, for drawing Fascines, Gabions, or and signifies likewise the standard whatever Obstacle else happen in the way. The Staff of the Halbard is about five foot long, GUNNER, is one appointed and an inch and half diameter, for the Service of the Cannon; made of Ash or other hard Wood. he carries a Field Staff and a Halbards are very useful in deterlarge Powder-Horn in a string over mining the Ground betwixt the his Left Shoulder; he marches by Ranks, and for dreffing the Ranks

Dd 4

wise for chastising the Soldiers, cause its Length allows a better. It is carried on the Left Shoul- poize. der.

Gorge is turned like a Crescent, or nadeers carry sometimes each a forming an Arch of a Circle; they Hatchet by his Side, and the French were used formerly for covering Dragoons, who have but one Pibeen found found of no use, be- at his Saddle Bow. on the Rightcause having only the Ravelins to fide. defend them, they are but very HEAD of a Work, is the Front indifferently flank'd; the Ravelins of it, next to the Enemy and farthat are built before the Curtins thest from the Place; as the Front are now called Half Moons, the of a Horn work is the Distance be-Name of Ravelin being almost tween the Flanked Angles of the

to rest, or upon what occasion which form the Re-entring Angles. may happen. The word of Com- HEDGE; to line a Hedge, is to

narily made of hard light Wood, to fave themselves from the Horse, and is of great use in Fortificati- or to defend a Pass or Defile. on for carrying Earth from one HEIGHT, see Eminence.
place to another, and in a Siege Height of the Bore of a Piece, is for carrying Bombs or Cannon-ball the Diameter of the Bore. along the Trenches, and for feve- HELVE, is the Handle of a ral other Uses.

Hand Spike, is a piece of Ash, HEPTAGON, is a figure ca-Elm, or other strong Wood, five pable of being fortified with seven or fix foot long, cut thin like an regular Bastions. Edge at one End, that it may get HERISSON, is a Barriere

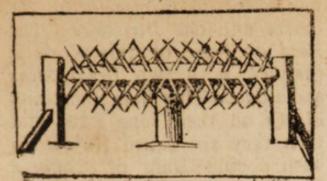
HATCHET, is a small Ax HALF-FILES, see File. used by the Pioneers, who go be-HALF-MOON, is properly fore to prepare the ways for an an Out-work composed of two Fa. Army, in cutting down Hedges, ces making a Salliant Angle, whose Bushes, Stiles or Gates. The Grethe points of Bastions; but have stol, have each a Hatchet hanging

laid aside by the Soldiers. Demibastions. The Head of a Dou-HALT, is to discontinue the ble Tenaille is the Salliant Angle in March of Troops, either in order the middle and the two other sides

mand Halt is an Order to stop the plant Mu quetteers along it under March and to stand still. cover, either to make fire upon HAND-BARROW, is ordi- an Enemy that is advancing, or

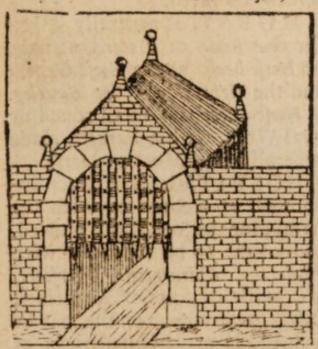
Hatchet, Pickax, Mattock, &c. To Hand-Screm, see fack. belve, is to put Handles to them.

the easier betwixt things which made of one strong Beam or Plank are to be separated, or under any of Wood; stuck full of Iron-spikes. thing that is to be raised; it is it is supported in the middle, better than a Crow of Iron, be- and turns upon a Pivet or Axis;



nature of a Turn-stile, for it is equally balanced upon the Pivot, which stands upright in the middle of the Passage, upon which it turns round, as there is occasion to open or shut the Passage.

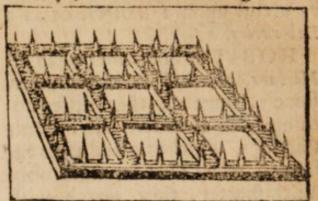
HERSES or Portcullises, are



strong pieces of Wood jointed Passage, in case the Gate had been the figure shews broke down or Petarded. It is HEXAGON, is a figure of fix either a Stop or a Separation, if sides, capable of being fortified any of the Enemy have already with fix Baftions. enter'd, for before it can be broke HIDES, Tan'd Hides are always

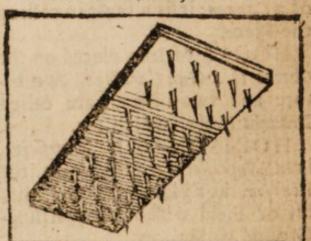
it is used in stopping a passage, in rally and repulse them. See Orgues.

Herse, is likewise an Engine like



a Harrow, stuck full of Iron-spikes; it is used in place of the Chevaux de Frife, to throw in the ways where Horse or Foot are to pass, to hinder their March, and upon Breaches to ftop the Foot. mon Harrows are sometimes made use of, and are turned with their Points upwards. See the figure.

HERSILLON, is for the



croff ways like a Lattice or Harrow, same use, as the Herse, and is made used formerly to hang in the mid- of one strong plank of Wood about dle of a Gate-way of fortified 10 or 12 foot long, fluck full of Towns, to be let fall to stop the Points or Spikes on both fides, as

open, the Besieged have time to carry'd along with an Artillery, eipe-

Laboratory.

keeping a Pass, being loaded with which 'tis faced. Cartouches. See Cartouch.

Square.

and defects in the charged Cylinder Horle-Shoe, is a small round or of a Cannon; it is a fault in calling oval Work, with a Farapet, made the Piece.

HOOKS of Iron placed on the

Draught Hooks, which see.

Ground or Hollow.

especially in the Fire-workers stores of the Shoulder, is the Length of for covering Powder or fixed one fide of the Polygon, or of the Bombs from the Rain; and are ve. Curtin and one Demigorge. The ry useful upon a Battery, or in a Head or Front of this Work is fortified with two Demibactions HOBITS, are a fort of small and a Curtin. They have sometimes Mortars, about 8 inches diameter, Flanks on their long fides, and fome 7, fome 6; they differ no then they are called Horn-works thing from a Mortar, but in their with double Flanks or Shoulders. Carriage, which is made after the They have generally a Ravelin in fashion of a Gun Carriage, only their Gorge, and a small Ravelin much shorter; they march with before the Curtin. This Work is the Guns, and are very good for quite rejected by Coeborne, being annoying an Enemy at a distance, of too great a Circumference, with small Bombs, which they and so small a Defence, that 'tis throw two or three Miles; or in not worth the Mason-work with

HORSE, is generally taken HOLLOW-SQUARE, fee for that Body of Troops that fight on Horse back, as the Horse-Guards HONEY-COMBS, are flaws and the Light-Horse. See Cavalry.

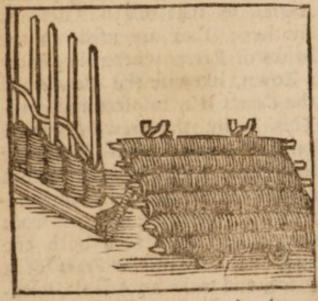
generally in a Moat or Marsh.

HOSPITAL, is a place ap-Cheeks of a Gun Carriage, two be- pointed, at a Siege or with the fore and two behind, are called Army, for the Sick and Wounded, and ought to be provided with HORISONT AL Superficies, Physicians, Chirurgeons, Overseers, is a Superficies parallel with the Oc. with all forts of Medicines, Horizon, as a plain or level Coun- Drugs, and whatever else may be try or Field without any Rifing- wanted, in great Quantities; as likewise Beds, Sheets, Coverlets, HORN-WORK, is a Work Shirts and Spare Linen for Bandawhich the French Engineers prefer ges. The Director of an Hospital before Tenailles, Swallows Tails or ought to be a very careful and Priests-Bonnets, because it takes in just Man, and to see that the Men a great deal of Ground and has a want nothing; for there are often better Desence; it is composed of great Rogueries committed in an two Long Sides or Faces parallel, Hospital, because they have every the Distance between them being thing at command, as the Wine, the Length of one Curtin; their Brandy, Syrrups, Bread, Butter, Length, measuring fro.n the Angle &c. which are often misemploy'd.

The

ed with the best Physicians and the Foss, especially when it is full Surgeons, that the Life of a Man of mud or slime. See their Form which he has exposed for the in the Figure. Service of his Prince, may not be loft by an Evil Operation of a bad Surgeon, when it may be preferved by being well dreffed; the Hospital is generally settled in fome Town near the Army, where the Sick and Wounded may be conveniently carried to it, only a part of it stays with the Army and moves with it, and is called the Flying Hospital.

HURDLES, or Clayes, are

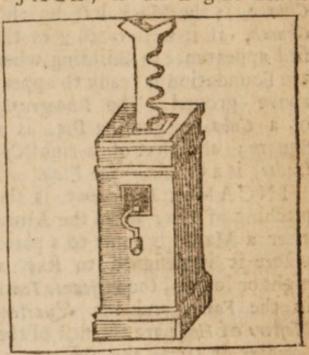


works of the Enemy, and from the Figure. the Stones which might be thrown ICHNOGRAPHY, as Fa-

The Hospital ought to be furnish- upon marshy Ground, or to pass

HUTT, see Cagerne.

JACK, is an Engine much



used about Guns or Mortars, and is always carried along with the Artillery for raising up the Carviages, or supporting the Axlemade of Branches or Twigs inter- tree, if a Wheel chance to be woven together in the figure of a broke; it is likewise used for long Square, about five or fix traverfing large Mortars, fuch as foot long, and three or three and those of 18 inches diameter, a half broad; the closer they are which are upon Low Dutch Carwoven they are the better. They riages, and for elevating them; are for several uses, as for co- for traversing the Sea Mortars, vering Traverses and Lodgments, and many other uses, too tedious Caponeers, Coffers, &c. and are to be named: with this Engine, covered over with Earth to fecure one Man is able to raife more them from the Artificial Fire- than fix could do without it. See

upon them, and likewise to lay ther L'Amy explains it in his Per-

Spective,

spective, is a Greek Word, signi- only the distance between the call Ichnos. Amongst Architects, yards for the Stables: At two 'Tis likewise what we call a Plan: Picquet Rope, firetched upon point-So the Plan or Ichnography of a ed Stakes, to which their Horles Church, is the Mark left by this are tied. For the Ground al-Church, if it were razed; or the lowed a Battalion or Squadron, first appearance in Building, when see Camp the Foundation is ready to appear INCAMPMENT, fee Camp. above ground. The Ichnography INDENTED-LINE, is a of a Cube, or gaming Dye, is a Line running out and in, like the Square; and that of a right Cy- Teeth of a Saw, forming several linder, is a Circle. See Plan.

fronting the Subalterns; the Field the Defences are ruined. Officers behind them, the Colonel INDEPENDANT Troop or in the Centre, the Lieutenant- Company, is what is not incorpo-Colonel on his Right, the Ma- rated into any Regiment. jor on his Left, and the Sutlers INFANTRY, are the Regi

fying properly the Figure or Print Tents is about 3 or 4 yards for which the fole of the Foot leaves the Forrage, and the space beon the ground, which the Greeks tween two Troopers, is 14 or 15 it is the Section of a Building yards distance from the Doors of cut horizontally near the Ground. their Tents, is a Rope called the

Angles, so that one fide defends INCAMP; To Incamp, is the another; they are used on the pitching of Tents when the Army banks of Rivers where they enter after a March is come to a place a Town, likewise the Parapet of where it is defigned to stay a the Covert Way is often indented. night or longer; the Serjeants Tents This is by the French Engineers in the Foot, and the Quarter- called Redents; small Places are Masters of Horse, are the first of the sometimes fortify'd with such a Company or Troop; the Officers in Line, but the fault of fuch Forticamp in the Rear, the Subalterns fications, is that the Befiegers from in one Line next the Company one Battery may rule both the fronting from it, the Captains in fides of the Tenaille or Front of a another Line at some distance, Place, and make an Assault, witheach behind his own Company out fear of being enfiladed, fince

behind all. Each Company makes ments or Independent Companies of a Line in File, having an Al- Foot in an Army; they are formed lowance of 7 foot for a Tent, and into Brigades, as the Cavalry are; 2 foot distance; the Tents of each Brigade confisting of 4, 5, two Companies front one another, or 6 Battalions; the Regiments of leaving a Street of five or fix Foot Guards take the Post of all yards betwixt them. The Troops the Infantry in the Army; the of Horse incamp the same way, other Regiments take Post by

Seni-

takes the Right of the first Bri- taking great care that none of gade; the second takes the Right their Works be flanked or discoof the second Brigade; the third ver'd from the Place. They are of the third, and fo on. The to make a faithful Report to the

Place, they are to acquaint the tion.

Seniority; the oldest Regiment of Arms, Batteries and Lodgments, next in Seniority take the Left of General of what is doing, to dethe Brigades, and leave the Cen. mand a sufficient number of ters for the youngest Regiments. Work-men and Utenfils, and to The first Brigade takes the Right foresee whatever is necessary, that in the first Line, and the second there be good Provision made of Brigade the Right of the second Fascines, Picquets, Gabions, Spades, Line; the third and fourth the Shovels, Pick-axes, Hatchets, Sand-Left of the two Lines, and the bags, Planks, Boards, Mallets, youngest Brigades in the Centre. Stampers, Dosfers, Wheel-barrows, INGINEER, is an able ex- Go. An Ingineer ought to be very pert Man, who, by the help of perfect in Arithmetick, to project Geometry, delineates upon Paper the Plots of Places, and calculate or marks upon the Ground, all the Expences of a Siege; in Geoforts of Forts and other Works metry, to measure his Works and proper for Offence or Defence; raife Plans; in Military Archiwho understands the Art of Forti- tecture, to distinguish himself in fication, and cannot only discover his Profession; in Civil Archithe Defects of a Place, but find a tecture, to know how to confruct proper Remedy for them; and Buildings and Works of Places; who knows both how to make an in Mechanicks, to know how to Attack, and how to defend a make Sluices, march Cannon, and Place Ingineers are extreamly use all forts of Machines; in Pernecessary for both these, and spective, to know how to express ought to be not only Ingenious, his Works on Paper, in their just but brave in proportion to their Proportion; and without Defign, Knowledge, for the Employ re he can neither make Carts nor quires Men expert and bold. At Plans. These Sciences are called a Siege, when the Ingineers have the Genius, in which confifts the observ'd and narrowly view'd the whole Spirit of War and Fortifica-

General which they judge the INSULT, is the attacking a weakest part, and where the Ap- Post with open Force, without proaches may be made with most using Trenches, Saps, or any Ap-Fase. Their Business is to deli- proaches, but coming without neate the Lines of Circumvallation Shelter to Blows with the Enemy. and Contrevallation, taking all The Besiegers generally insult the the Advantages of the Ground; Counterfearp to skun the Enemies to mark out the Trenches, Places Mines, that they may have

time to Fire them. In such At- and is either through Age, or by tacks, the Grenadiers march be reason of his Wounds, render'd fore the rest of the Troops, and the incapable of the Service. They Work-men go prepar'd to made a are disposed of in Hospitals, such Lodgment. In the year 1695, as Chelley for the Land Forces, and when our Approaches were ad- Greenwich for the Sea-men; and vanced within 150 yards of the are there provided with Meat, Covert Way before the Ravelin, Drink and Cloaths, and are alwhich cover'd St. Nicolas Gate at lowed a little Money besides. Namure, the King gave Orders to INVESTING a Place, is infult the Counterscarp about 4 a when a General having a Design to Clock in the Afternoon, which befiege it detaches a Body of Horse was done with that Bravery, that to fieze all the Avenues, blocking we lodged upon the Parapet of up the Garrison, and preventing the Covert Way.

night.

and Parapet. See Retrenchment. were opened.

INVALIDE, is a Man who ISOSCELES, see Triangle.

prepar'd) by not giving them has spent his time in the Wars,

Relief getting into the Place, till INTRENCH'D; an Army is the Army and the Artillery are got faid to be intrench'd, when they up to form the Siege. In the have raised Works before them year 1695, when the King to to fortifie themselves against the amuse the Enemy, march'd his Enemy, that they may not be Army towards the French Lines forced to fight at a Disadvantage, before Tpres, and made a Sham It was a chief Maxim amongst the Siege of Knoque; by which means Romans, that in their most hasty he drew the Marshal of Villeroy, Marches they intrench'd every with the Grand Army of France to oppose him; he order'd the INTRENCHMENTS, are Count Terclais de Tilly, Veltall forts of Works made to fortifie Marshal of the Elector of Cologne, a Post against an Enemy. The who lay with a Body of Horse to Word fignifies a Foss or Trench, cover Liege and Maestricht, to inwith a Parape:, or Rows of Fa- vest Namure on the North side of scines loaded with Earth, Gabions, the Maes, while General Flemming Sand bags, or togfbeads filled with did the same on the South side, Earth, to cover the Men from the till our Array got up and formed Enemies Fire. A Post intrench'd, that Famous Siege, which lasted is when it is cover'd with a Foss two months after the Trenches

K.

to beat the Kettle-Drums, from riot drawn by two white Horses. which he takes his Name. He KLINKETS, are a fort of ought to be a Man of Courage, small Gates made through Paliand of a good Meen, having a neat sades for Sallies. Motion with his Arms, and a good Ear; he marches always at the Head of the Squadron, and his

one before, and the other behind it is call'd the Laboratory Tent.

knobs on the ends, which beat the Drum head and cause the found. The Kettle-Drum with KETTLE, is a Term the Trumpets, is the most Martial Dutch give to a Battery of Mor- Sound of any; each Regiment of tars, because it is fank under Horse has a pair, and of late the ground. See Batt y. Dragoons have likewise Kettle-KETTLE-DRUMMER, is Drums. The Train of Artillery a Man on Horse back appointed have a very large pair on a Char-

post is on the Right when the LABORATORY, or Labo-Squadron is drawn up. ratorium, is any fort of Work-Kettle-Drums, are two forts of House; but we bring it in here as large Basins of Copper or Brass, a Term belonging to Gunnery, rounded in the bottom, and co- and it fignifies the Place where the vered over with Vellum or Goat- Fire-workers and Bombardeers preskin, which is kept fast by a Cir- pare their Stores; such as dricle of Iron, and several Holes ving of Fusees, fixing of Shells, fasten'd to the body of the Drum, making of Quick-match, fixing and a like number of Screws to Carcasses, and all other Fireworks fcrew up and down, with a Key belonging to War or Recreation. for the Purpose. The two Drums There is sometimes a large Tent are kept fast together by two carried along with the Artillery straps of Leather which go thro' to the Field for this Use, with all two Rings which are fasten'd the forts of Tools and Materials, and

the pomel of the Kettle-Drummer's LADLE of a Gun, is the In-Saddle; they have each a Banner strument wherewith the Powder of Silk or Damask richly embroi- is put into the Piece; it is made der'd with the Sovereigns Arms, of a plate of Copper bowed in or those of the Colonel, and are form of a half Cylinder, rounded fringed with Silver or Gold, and at one end, the other being fixed to preserve them in bad Weather, upon a long Staff; this filled they have each a cover of Lea- with Powder, the Gunner carries ther. The Drum Sticks are of with his Left Hand under the Crab-Tree or other hard Wood, end of it to keep the Powder of 8 or 9 inches long, with two from falling out, till he enters it he has carried the Powder home a very Intelligent Person, because to the charged Cylinder, he turns in the absence of the Captain he fall out, and withdraws it. La- to be as well qualified as the Cap-Gun, and hold Powder sufficient Arms, he takes the Left of the

for the Charge.

Offender as he passes.

they have the same Pay as a Foot and Ball. Soldier, but in France they have a Lieutenant Colonel, is the second Right of the second Rank.

in all the Store-Houses.

in the Muzzle of the Piece; when Troop or Company, and ought to be the Ladle that the Powder may commands and therefore he ought dies are fitted to the Bore of each tain; when the Company is at Captain, but the Right, if the En-LANE; to make a Lane, is to fign be there. He marches the draw Men up in two Ranks fa- Company in the absence of the Capcing one another, which is gene- tain, but when the Captain is prerally done in the Streets through fent, his Post is in the Rear; which a great Person is to pais, when the Battalion marches in as a Mark of Honour. But of- Line of Battel, the Lieutenants tentimes Men are drawn up to for take their Posts at the Head of a Soldier to run the Gauntlet, the Divisions, according to their each having a small Wand or Seniority. He ought to inspect Swith in his hand to whip the the Actions of the Serjeants and Corporals, to keep them to their LANSPESADE, or An. Duty, and take care of every spefade, is under a Corporal, and thing that is necessary to the Com. affifts him in his Duty, and per- pany to fee them Exercise, to cause forms his Duty in his absence; them keep their Arms clean and they are generally the most vigi- sit for Service, and to see that the lant and brave of the Company, Soldiers be provided of Powder

greater Allowance; they are ex- Officer in a Regiment, and should cused from Common Duty, they be one who has signaliz'd himself teach the new Soldiers their Ex- by some brave Action; a Man of ercise, and post the Centries; great Experience; knowing how their Place on a March is on the to attack or defend a Post, lead the Regiment to Battel, and how LANTHORNS are used at to make a good Retreat; he is to Sieges for the night time upon the fee the Regiment kept to their Ex-Batteries, but these are your Blind ercise, and is to know the Quaor Dark-Lanthorns. They have lifications of all the Officers of always a great Provision of them the Regiment. In the absence of the Colonel he commands the Re-LEADERS, see File-Lead- giment; his Post is on the Colonel's Left Hand, three paces before the LIEUTENANT of Horse or Captains, when there is but one Foot, is the second Officer in the Battalien; but if the Regiment be

of two, the Colonel commands the LIFE-GUARD, fee Guards. first; and he the second. Colonels LIGHT-HORSE; all the and Lieutenant-Colonels, are ex- Regiments of Horse, except the cused from mounting the Guards, are called the Lightwhen the Regiment is in Garri- Horse; each Regiment consists of

of the second Squadron.

Persons of Courage and Conduct, ment and Troop. and whose Ability and Fidelity LIMBERS, is a fort of ad-In Day of Battel, they command her. the Wings of the Army; and at a LINE, as it is a Term in Geo-Trenches by turns. They are to whole Extremities are Points. execute the Generals Orders upon Line of an Army, see Camp. and a Foot Guard mounted by a it with Brick or Stone. Lines are Subaltern, with a Serjeant and 30 fometimes made to cover a Coun-Men.

fix Troops (only Lumley's has nine) Lieutenant-Colonel of Horse, is and is commanded by a Colonel, the same; he marches at the Head Lieutenant-Colonel, Major, Captains, Lieutenants, Cornets, and Lieutenant-General, is a Charge Quarter-Masters; they rank acof great consequence, requires cording to Seniority. See Regi-

has appeared on feveral Occa- vane'd Train joined to the Carfions: They ought not only to riage of a Cannon upon a March; understand their own, but also it is composed of two Shafts . the Bufiness of a General, because wide enough to receive a Horse they are often intrusted with the betwixt them, which is called the Command of a Flying-Camp, and Fillet-Horse; these Shafts are joinsometimes with a part of the Ar- ed by two bars of Wood, and a my. The number of Lieutenant- bolt of Iron at one end, and have Generals is not limited; they are a pair of small Wheels; upon more or less, according as the the Axletree rifes a strong Iron Army is great or small: there is Spike, upon which the Train of every day a Lieutenant-General the Carriage is put upon a March, upon Command, who is called but when a Gun is upon Action; the Lieutenant-General of the Day. the Limbers are run out behind

Siege, they command in the metry, is a length without breadth,

all Occasions: some are appointed Line in Fortification, is someover the Cavalry, others for the times applied to a Trench. Line of Infantry; sometimes on the Ad- Gabions, Lines of Communication, vance-Guard, others on the Rear- Circumvallation, Contrevallation, Guard, and sometimes they com- and Lines of Approaches, are alreamand a Flying-Army. They ought dy explained. To run a Line, is to be daily with the General to to dig a Trench with a Parapet; know his Orders; they are al- to line a Work, is to trace it out; lowed each two Aid de Camps, to line a Work, is likewise to face Ee

War, which run from Dunkirk by the Linspin is put in to keep the Tpres, Menin, Courtray, Lifle, and Wheel from falling off. ended at the Scheld near Tournay; LINSTOCK, is a short Staff they were fortified from distance of Wood about three foot long, to distance, with small Forts; upon one end of which is a these were forced by the Dake of piece of Iron which divides in Wirtenberg, in the year 1693, two turning from one another, near Pont Espiere. The French in having each a place to receive a Line from the Scheld below Ant- fast; the other end is pointed and werp to cover that Place and all shod with Iron to stick in the Brabant, which passes by Leer, Ar- Ground. It is used by Gunners to Schot, and Leuwe, to the Mehaigne, fire the Guns; and failing of it, a

Line-Capital, see Capital.

Line of Defence, is a supposed jot as well. Line drawn from the Angle of the LIZIERE; Berm, Foreland, or tin to the Flanked Angle, which Wall. ought never to exceed 800 foot; LOCKSPIT, is the small Face of the Bastion; this Line out the first Lines of a Work. is called likewise the Flanking or scines, Wool-packs, or Mantelets, Stringent-Line.

of Iron which keeps the Wheel of stances, are made Lodgments or a Cannon or Waggon on the Axle- Places of Arms to flank the Trenches,

try, as the French Lines in the late Axletree is put through the Nave,

the beginning of this War, made Match, and a Screw to keep it three Leagues above Huy. a piece of cleft Stick to stick the Match in, does the Bufinels every

Curtin, or from any other Point Relais, is a space of Ground left in the Curtin, to the Flanked An- at the Foot of the Rampart, on gle of the opposite Bastion; or it is the side next the Country, dea Line representing the flight of a fign'd to receive the Ruins of the Musquet Ball from the place where Rampart, to prevent its filling up the Musqueteers stand to scowr the the Foss; it is sometimes pali-Face of the Bastion, and ought ne- saded for the more security, and ver to exceed the reach of a in Holland is planted generally Musquet. It is either Fichant or with a Quickset-Hedge; when this Rayant; the first is when it is space is covered with a Parapet, drawn from the Angle of the Cur- it is called a Fausebray, or Low

the last when it is drawn from a Cut or Trench made with a Spade Point in the Curtin, razing the of about a foot wide, to mark

shows how much of the Curtin is LODGMENT, is a Work taken off fort he second Flank: it raised with Earth, Gabions, Fato cover the Besiegers from the To line Hedges, see Hedges. the Enemies Fire. In conducting LINSPINS, are small pins the Approaches at certain Ditree, for when the end of the capable of holding 100 Men, which

bags, &c. in the Trenches; and Surface. during the Action, the Pioneers Machines Composed, are those possible from the opposite Ba- may be used a great many diffestion, or the Place most to be rent ways. feared.

and two Obtuse.

nettes which are larger, and rai- with plates of Iron.

general Plan.

several pieces joined together, &c. The place ought to be large,

which serve as a guard to the and so disposed, as to serve both Trenches. But Lodgments made on for augmenting or diminishing the Glacis, Covert Way, Breach, the Force whereby a Body is &c. are much more dangerous, moved, according to the different being more exposed to the Ene- Uses to which it is applied in mies Fire, and having less Earth. War, Architecture, and other Arts. When it is resolved upon to in- Machines are either Simple or fult the Covert Way, tho' a great Composed; the Simple are the Bamany Men are lost, and generally lance, Crow, Pully, Wheel, Coin the bravest; there must be great and Screw; to which some add Provision made of Fascines, Sand the Inclining Plan, and the plain

with Mantelets, Fascines, Wool- which are composed of several packs, or Sand-bags, should be Simple Machines, which cannot be making the Lodgment; covering numbred, because in their Conthemselves as advantagiously as struction, the Simple Machines

MADRIERS, are long LOZANGE, or Rhombe, is planks of Wood very broad, used a Figure of four equal fides for supporting the Earth in minewhose Angles are two Acute, ing, in carrying on a Sap, in making Coffers, Caponiers, Galle-LUNETTE, is a small Work ries, and many other Uses at a raised sometimes in the middle Siege. They are likewise used to of the Foss before the Curtin, cover the mouth of Petards after forming an Angle; its Terreplein they are loaded, and are fixed rifing but a little above the Sur- with the Petards to the Gates, or face of the Water, about 12 foot other places design'd to be forced broad, with a Parapet of 18 foot. open; when the Planks are not There is another fort of Lu-strong enough, they are doubled

sed to cover the Faces of a Half MAGAZINE or Arsenal, is Moon; they are likewise composed the Place where all forts of Stores of two Faces, a longer and a are kept, where Guns are foundshorter; see their Figure in the ed, and where the Carpenters, Wheelwrights, Smiths, Turners, and other Handicrafts, are con-M. frantly employed in making all things belonging to an Artillery, MACHINE, is a heap of as Carriages, Waggons, Tumbrills,

niently disposed without Confu- which all the rest are subordision; the Powder by it self in a nate; see Guard. dry place, otherwise the Salt- MAJOR of a Regiment of Horse petre grows moist and damp. or Foot, is the next Officer to the The Corselets, Breast-Plates, Hel- Lieutenant-Colonel, and is generally mets, Pikes, Halberts, Musquets, made from eldest Captain; he Carabines, Piftols, Swords, Bago- ought to be a very careful vigilant nets, &c. in order; the Cords, Man; he is to take care that the Ropes, Match, Brass, Tin, Lead, Regiment be well exercised, that and all other things belonging they be drawn up in good Order at either to the Attack or Defence a Review or upon the Parade, or any of a Place, ought to be in parti- other Occasion; to see it march cular places. Fixed Bombs, Gre- in good Order, and to rally it, nades, Petards, &c. must be in in case of its being broke. He is dry Places; Cannon Ball, empty the only Officer among the Foot Bombs and Grenades, may be piled that is allowed to be on Horseup in the Court, or in places back in time of Action, that he fave their being spoiled or rotted stant. by the Rain or Snow. The Fireworkers Stores must be allowed a Major. ed.

Left Wing.

that every thing may be conve- In Garrison, it is that Guard to

made on purpose, with a small may be the readier to execute the Wall betwixt the Balls of diffe- Colonels Orders, either in adrent Calibers. The Carriages, vancing or drawing off the Regi-Wheels, Limbers, Waggons, and ment: He is appointed an Aid-Tumbrils must be in Shades, to Major, or Adjutant for his Assi-

Major of a Brigade, see Brigade-

Place and a Laboratory by them- Major-General, is a Post of great felves. A Magazine being the Consequence, and he who pos-Place appointed for making and fesses it, ought to be brave, judikeeping all forts of War-like cious, and a Man of Experience Stores, ought to be well fituated in marching and encamping of in a strong place, and well guard- Troops; he is the next Officer to the Lieutenant. General; when there MAIN-BODY of the Army, are two Attacks at a Siege, he is the Body of Troops that marches commands that on the Left. His between the Advance and the Rear- chief Business is to receive the Guard. In a Camp, it is that Orders every night from the Gepart of the Army which is en- neral, or in his absence, from the camped betwixt the Right and Lieutenant-General, of the Day, which he is to diffribute to the Main-Guard, or Grand-Guard, is Brigade-Majors, with whom he is a Body of Horse posted before the to regulate the Guards, Convoys, Camp, for the fafety of the Army. Parties and Detachments, and ap-

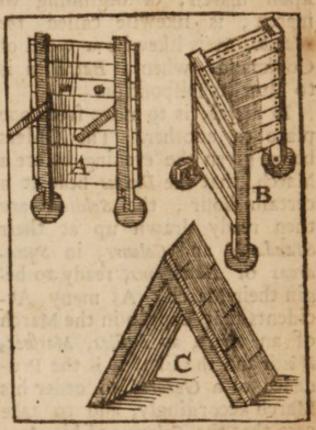
points

Rendezvous. He is to know the small Trucks; they are of two Strength of each Brigade in gene- forts, either fingle or double. ral, and of each Regiment in par- Single Mantelets A, are made in ticular, and to have a List of all joining two or three such planks the Field Officers. Finally, he is together with bars of Iron, to in the Army, the same as the Ma- make three foot or three and a jor of a Regiment in the Regiment: He is allowed an Aid de Camp, and has a Serjeant and 15 Men for his Guard.

Town-Major, is the third Officer in a Garrison; his Business is to iee the Guards mounted, the the Rounds and Posts assign'd; he regulates the Centinels, goes every evening to receive the Word from the Governour, and gives it out upon the Place of Arms, to the Adjutants and Serjeants of the Garrison; he goes his Round Major, visits the Corps de Gardes, and fees that all the Soldiers Arms are fixed and in good Order; he causes necessary Ammunition to be diffributed among them, orders the Gates to be open'd and half broad, to cover those that thut, and gives the Governour an carry them from the Enemies Account of all that passes in the Fire. Double Mantelets, B, are Place.

it needs no Description; its use in used in making Approaches and Fortification is for driving in the Batteries near the Place, as the Stakes or Piquets that fasten the others are in making Lodgments Fascines or Gazons; it is likewise on the Counterscarp; they are coused at Sieges, both upon the vered with Letten, and are Batteries and in the Trenches, on then made smaller at bottom feveral Occasions.

points the place and hour of their Fire, being pushed forward on



made by putting Earth between MALLET is so well known two such rows of Planks, and are than at the top, that they may be MANTELETS, are great the more easily join'd together, planks of Wood of about five to cover the Soldiers from the foot high, and three inches Grenades and Fireworks of the thick, which serve at a Siege to Place, as C. Some are so made, as cover the Men from the Enemies to cover the Soldiers from the Fire Ee 3

MARCH, in general, is the my, the eldest Commands. steps made in marching, or the Velt-Marshal in Germany, Branmoving of a Body of Men from denburg, Holland, &c. is likewise one place to another. The Beat of the same with Captain-General. the Drum, when the Soldiers are Marshal de Camp, is in France upon march, or beginning to the next Officer to the Lieutenantmarch, is likewise called the General, and is the same as a March. It is likewise a word of Major-General with us. See Ma-Command, when a Battalion is jor-General. to alter its Disposition.

place to another. The Orders now is suppressed. being given the evening before a MASTER DE CAMP in France, then ready drawn up at their nel of Horse. of an Army, as Defiles, Marshes, sence of the Colonel-General. Guard, the Main-Body, and the mands the other Gunners. Rear-Guard, and is sometimes in Master General of the Ordnance, two, four, fix or eight Columns, fee General. according as the Ground will al- MATCH, a small Rope or low.

very much in the Summer.

Fire on Front or in Flank, as B. or more Marshals are in one Ar-

Marshal de Battaille, was once To March, is to move from one a Post in the French Armies, but

March, that the Drums beat at a is he who commands a Regiment certain hour, the Soldiers are of Horse, being the same as a Colo-

Standards and Colours, in Squa- Master de Camp General, is likedrons or Battalions, ready to be- wife a Post in France, being the gin their March. As many Ac- fecond Officer over all the Lightcidents may happen in the March Horse, and commands in the ab-

Woods and the like, it is the Pru- Master-Gunner, is an Officer dence of a General to order his who has the command over all March accordingly, and to take the Gunners in the Kingdom, and care that the Columns of his Army is subordinate to the Principal have a free Communication one Officers of her Majesty's Ordwith the other. The March of an nance. Each Garrison has like-Army is composed of an Advance- wise a Master Gunner, who com-

Twist about three quarters of an MARSH, is a standing Wa- inch diameter twisted hard, which ter, or Water mixed with Earth, being lighted at one end, burns whose bottom is very dirty, leisurely without going out; it which drys up and diminishes was formerly used for Matchlock Musquets, but these are now out of MARSHAL of France, is the use; it is now used for firing the highest Preferment in the Army Cannon, Mortars, Hand Grenades, or in the Fleet: it is the same &c. it is sometimes used in blowwith Captain-General; when two ing up Mines, when it is to be

Match is generally the best. vantage.

should break down.

out going against Sense and Na- overlook the Works of the Place. tural Reason; they are generally 4. The Flanked Angle, or Point

establish'd as Infallible.

tain general Rules establish'd by beat it down to lodge there. Engineers, founded on Reason and 5. The Acute Flanked Angle near

chiefest Maxims are,

done some hours after; the 2. A Foreress should command all Match being cut according to the Country round it; that the Be-Judgment to burn fix, eight or fiegers may not cover themselves; ten hours, at the end of which nor find places to favour their time the Match being burned out, Approaches and Attacks, nor to fires the Powder and springs the overlook the Works of the Place, Mine; the hardest and dryest to batter them with more Ad-

MATROSSES, are Soldiers 3. The Works furthest distant in the Artillery next to a Gunner; from the Centre of the Place, must their Business is to assist the Gun- be still lowest, and commanded by those ners about the Gun, to Traverse, that are nearer; to the end, they Spunge and Fire, to affift him in may be defended by the higher Loading, &c. they carry Fire- Works, and those nearer the locks, and march along with the Place; that so the Enemy by be-Store Waggons, both as a Guard, ing exposed, may be obliged to and to help in case a Waggon quit them, after they have been posses'd of them, because of the MAXIMS, are certain Pro- Fire of the Besieged; and likepositions, so clear in themselves, wise, that the Enemy by being that they cannot be denied, with- Masters of such Works, may not

serviceable in all manner of De- of the Bastion, ought to be at least monstrations, and deserve to be 70 Degrees; that it may the better resist the force of the Enemies Maxims in Fortification, are cer- Batteries, in case they designed to

Experience, which being exactly to a Right Angle, is preferable to all observed, a Place fortified ac- other. It is certain, if the Flankcording as they direct, will be in ed Angle be a Right Angle, it has a good Posture of Defence. The all the Strength can be given it, having Solidity enough to with-I. There ought to be no part in stand the Enemies Batteries: but the Fortification of a place, but what an Angle near to a Right, makes is discovered and flanked by the Be- the Tenaille of the Place more fieged. For if there be any part of compact, by the Angle of the a Place which is not well flanked, Shoulders shortening and betterthe Enemy being there under co- ing the Defence, and by its not ver, will with the more ease at- exposing the Face so much to the tack it in that place, and carry Enemy. So that it follows of COR-Ee 4

consequence, that an Obtuse Angle vy Bodies by the help of Mais very deficient.

because the longer they are the the Parapet which is terminated weaker, for the Enemy attacks by two Embrasures of a Battery,

part under cover; which fignifies it rapet, but its breadth is ordinarily must be cover'd by an Orillon, nine foot on the inside, and fix on otherwise the Desence is present the outside. It serves to cover ly ruined, and the Lodgment no those on the Battery from the sooner made on the Counterscarp, Enemy: and is better of Earth, but the Place is obliged to capi- well beat and close, than of Stone,

8. There must be an Accord be- those they should defend. tween these Maxims, to render the MILE, is a fort of Measure Fortification perfect. For if the which is longer or shorter in dif-Gorge be too large, the Face suf- ferent Countries; an Italian Mile fers; the more the Flank is co- is 1000 Geometrical Paces; an vered, the less it is subject to be English Mile 1250, in Scotland and ruined, but then the Defence is Ireland it is 1500, and in Germany more oblique in making a fe- 4000. cond Flank, the Flanked Angle is MILITARY-EXECUTION, is made too weak in discovering the ravaging and destroying a the Face, the Defence is more Country for Contribution. vantages over all; and the Secret Powder, it is composed of a Galwith another.

chines.

6. The shortest Faces are the best; MERLON, is that part of them with a greater Front. fo that its height and thickness 7. The Flank must have some is the same with that of the Patulate, as has been often seen. because these sly about and wound

easie, but it is more exposed to MINE, is an Ouverture made the Enemies Batteries. In a word, in a Wall or other place, which there is Advantages and Dilad is defign'd to be blown up with confifts in judging whether con- lery and a Chamber. The Gallery forming with one Maxim be more is the first Passage made under Advantagious, than disagreeing ground, being no higher nor broader than to fuffer a Man to MEASURE-ANGLE, is an In- work on his Knees. The Chamstrument of Brass for measuring ber is the small space at the end Angles, either Sailliant or Ren- of the Gallery, like a small Chamtrant, to know exactly the num- ber where the Barrels of Powder ber of Degrees and Minutes, to are deposited, for blowing up lay them out upon Paper. what is proposed to be sprung. MECHANICKS, is a Science When the Chamber is dry, the very useful in War, especially Powder is put in Sacks instead of about an Artillery, as teaching a Barrels, and the form of the commodious way of moving hea- Chamber is cubical; its height

and

When the Mine is under the Ram- much used in the Field now, bepart of an empty Bastion, least by cause the Saker which carries four the thinnels of the Earth on the pound and a quarter Ball is more fide next the Place, the Powder esteemed. should burst forth that way; the MINUTE, is the 60th part top of the Chamber is cut into of a Degree, see Degree. to Passages like Chimneys, to MOAT, Ditch or Foss, is a oblige the Mine to have its Effect Depth or Trench round the Ramupwards. If the Chamber be part of a Place, to defend it, and humide or damp, the Powder is prevent Surprizes; the brink of put into Barrels or Caiffons, and the Moat next the Rampart, is calfired with a Sauciss. If the Places led the Scarpe, and that opposite Boards.

his Shoulders.

and depth being about fix foot, foot and a half; they are not

to be blown up be rocky, or if on the other fide, is called the there happen to be any thing else Counterscarp, which forms a Rein the way to hinder the Miners, entring Angle before the Centre of they make Fourneaux, Arraignée, the Curtin. A dry Moat round a or Rameaux, all which are the place that is large and has a same thing, and signifie Branches, strong Garrison, is preferable to which terminate in small Mines, one full of Water, because the and are fired all together by feve- Passage may be disputed inch by ral Saucisses. The Gallery of a inch, and the Besiegers when Mine goes turning and winding, lodged in the Moat are continuthe Earth is put in small Baskets, ally exposed to the Bombs, Greand given out betwixt their Legs nades, and other Fireworks which backwards from one to another, are thrown inceffantly over the because of the narrowness of the Rampart on their Works. In the Passage. The Earth of the Cham- middle of dry Moats, is someber is to be supported, with times made another small Moat, planks, and when the Chamber is called the Cunette, which is gedamp, it must be floor'd with nerally dug so deep till they find, Water to fill it. The deepest MINER, is he that works in and broadest Fosses are counted the the Mine; he covers his Head best, but a deep Foss is preferable with a Hood, to fave his Eyes to a broad one; the ordinary from the Earth that falls down, breadth is about 20 fathom, and which by this Hood is thrown over the depth about 16 foot. To drain a Foss or Moat full of Wa-MINION, is a Piece of Canter, is to dig a Trench deeper non carrying a Ball of 4 pound than the Level of the Water to weight, the diameter of its Bore let it run out; when it is drainis 3 in ches and 3 eighths, and the ed, there are Hurdles thrown uplength of the Piece about fix on the Mud and Slime, and cover'd

Passage.

MONT-PAGNOTE, or Post weight. Place besieged, where curious gland, are 10, 13, 15, and 18 in-Persons post themselves to see an ches diameter; there are smaller Attack, and the manner of the Mortars of 6 and 8 inches; all Landau, there was a Mont Pagnote Oak, on which rife two Cheeks or raised on a Rising Ground, half Brackets on the sides of the Morby the Orders of Prince Lewis of the 18 inch is mounted on a Low

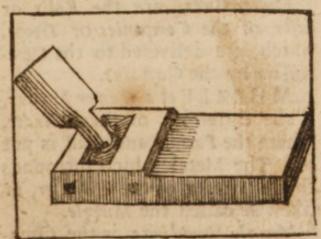
mans to fee the Attacks.

cover'd with Earth or bundles of Mortars are used both at Sea and Rushes, to make a sure and firm Land, but they differ very much in Form. A Sea Montar is gene-MOINEAU, is a French rally 13 inches diameter of the Term for a little flat Bastion rai- Bore, is longer and more reinfed upon a Re-entring Angle forced than a Land Mortar, bebefore a Curtin, which is too cause they are fired with a greater long, between two other Bastions; quantity of Powder, iometimes it is commonly joined to the Cur- with 30 or 33 pound; some of win, but sometimes separated by a them have their Beds or Stools of Fofs, and is then called a De- Metal cast in a piece with the tach'd Bastion; they are not raif- Mortars, others have them of a ed fo high as the Works of thick iquare piece of Oak, which the Place, because they must be by the help of Hand screws or exposed to the Fire of the Be- Facks, is turned round upon a fleged, in case the Enemy should strong Axis of Iron to fire any lodge themselves there. Their way; they are always fixt at an Parapet, as well as the Parapet of Elevation of 45 Degrees; they all Out-Works, ought to be Cannon carry Bombs of 200 pound, and Proof, that is to fay, 18 foot thick. generally weigh about 9 or 10000

of the Invulnerable, is an Eminence Land Mortars are of different chosen out of Cannon-Shot of the forts; those used most in En-Siege, without being exposed to but the 18 inch Mortars are mounany Danger. At the late Siege at ted on a very thick plank of way betwixt the two Attacks, tar, fee the Figure at Cheeks. But Baden, for the King of the Ro- Dutch Carriage, consisting of two strong planks of Wood bound MORTARPIECE, is a fort with thick plates of Iron, and of a short piece of Artillery, re- joined together with Transums of inforced, and of a wide Caliber, Wood. All Land Mortars may be differing from a Cannon, both in elevated to any degree of the Form and Use; the Cannon ser- Quadrant. They have no Wheels, ving to throw Ball, and the Mor- therefore on a March they are tar to throw Bombs, Carcasses, laid upon a Block Carriage made Fire Pots, and several other forts on purpose. They are never carof Fireworks, as likewife Stones. ried along with the Army, because

on an Occasion of a Siege or piece of Oak of 20 inches long, Bombardment; but a fort of 10 and a half broad, and betwixt small Mortars called Hobits, 3 and 4 thick; they stand fixed mounted in Gun-Carriages, are al- at 45 Degres of Elevation, and ways a part of the Field Artillery. throw Hand Grenades, as all other See Hobits.

feveral forts, as Tinkers Mortars, 2 yards distance from one anwhich are fixed at the end of a other, having each a Soldier to staff of about four foot and a half serve it, and an Officer to every 40 long, the other end being shod or 50, who lays them to what with Iron to stick in the Ground, Elevation he thinks convenient, horne's new Invention exceeds confusion.



made of hammer'd Iron of four Ball, or fo far as the Bomb or inches diameter of the Bore, ten Ball may be supposed to go in a inches and a half long, and nine right Line. The Mixt Motion, is

of their great weight, except up- inches in the Chace, fixed upon a Hand Mortars do; they are placed Hand Mortars, are likewise of in the bottom of the Trenches, at while a Soldier with his one Hand by raising or finking the hind part keeps it at an Elevation, and of the Bed; three or four hundred with the other Hand fires. Fire- of them are sometimes in Service lock Mortars are fixed in a Stock at once, in different parts of the with a Lock, like a Firelock; Trenches, 60, 70, or 80 in a they swing between two Arches place. Those in one place fire all of Iron, with Holes answering at once, immediately after the one another, by which the Mortar Batteries have done, and are anis elevated; these stand upon a swered from another part of the sole or plank of Wood, and may Trench, which brings such a be carried by one Man from one shower of Hand Grenades into the place to another. There are more Covert Way, that those that deforts of Hand Mortars, but Coe- fend it cannot prevent being in

them all, so far as to deserve a MOTION, or Movement of an Army, is the feveral Marches and Counter marches it makes, or changing of its Post for an Advantagious Encampment, either with a Defign to engage the Enemy to a Battel, or to shun fighting.

Motion of a Romb or Ball, is the Progress it makes in the Air after it is delivered, and is of three forts: The Violent Motion, is the first Expulsion when the Powder particular Description. They are has worked its Effect upon the

when

when the weight of the Ball be- the Ramparts and Parapets. See gins to overcome the force which Firelock. was given by the Powder, and Musquet Baskets, see Baskets.

as Squares or Rounds, which are Troopers who fight sometimes ferve generally for Ornament, on Foot, sometimes on Horsefuch as the Breech-Mouldings and back; they are Gentlemen of Muzzle Mouldings; the Rings of a good Families, and are divided

on Duty: To Mount a Breach, is to other the Black Musqueteers, for run up it or to attack: To Mount the same Reason. the Trenches, is to go upon Guard MUSQUETOON, see Blunderin the Trenches.

commodious and useful Fire-Arm view of Troops under Arms, to see used in the Army, either in at- if they be compleat, and in good tacking or defending a Post; it is Condition; that their Arms and with small trouble, which makes thereby to know the Strength of its use the more common; the an Army: The General may order Pikes being laid aside in our Ar- either Muster or Review, as often my of late, and Musquets brought as he pleases. in their stead shows that tho' Pikes Muster-Master, see Commissary. are useful, yet Musquets are much Muster Rolls, are the Rolls or more, and can do better Service. Lifts of the Companies or Troops, They carry a Ball of 16 in the which are delivered to the Compound: the length of the Line of missary by the Captains. Defence is limited in Fortification, MUZZLE of a Gun or Mortar, by the ordinary distance of a is the extremity of the Cylinder, Musquet-Shot, which is about 120 where the Powder and Ball is put fathom, and almost all the Mili- in. The Metal which surrounds

the Natural Motion, is when the MUSQUETEER, is a Foot Ball or Bomb is falling. Soldier arm'd with a Musquet or MOULDINGS of a Gun or Firelock, Sword, Bayonet, &c. Mortar, are all the eminent parts, The Grand Musqueteers in France,

Gun, are likewise Mouldings. into two Troops, the one called MOUNT, see Cavalier. the Grey Musqueteers, because of To Mount the Guard, is to go up- the Colour of their Horses, the

bus.

MUSQUET, is the most MUSTER, is a narrow Reeasily managed, and is carried Accoutrements be in good Order;

tary Architecture is regulated by the Extremity of the Cylinder, is this Rule for the length of the likewise called the Muzzle.

Defence, as the effect of Cannon Muzzle-Mouldings is the Ornagives a Rule for the thickness of ment round the Muzzle, see Mould.

ings.

her and a limit long, and mine right lines

N.

Spike be either got out, or a new cabel. Vent drilled. In all Sortees or Sallies of a place befreged, nothing is fo glorious as the nailing of the Beliegers Cannon, nor so advantagious to the Garrison, Flank. himself into the Grave, which is it approved by Engineers. was then belieged by them in the OBTUSE-ANGLE, fee year 1674, to serve as Volunteer, Angle. and in a Sally the Garrison made OCTOGON, is a Figure of behaved himself with great Bra- 8 Sides or Polygons, forming the mies Cannon. The late Sally of Bastions. ed.

called the Wisher, which saves the Hole of the Nave from wearing

too big.

To nail Cannon, or as some say NECK of a Gun, is that to Cloy them, is to drive an Iron part betwixt the Muzzle Mould-Spike by main force into the Vent ings and the Cornish-Ring. Neck or Touch-hole, which renders the of the Cascabel, is the part betwixt Cannon inserviceable, till the the Breech-Mouldings and the Caf-

0.

OBLIQUE-FLANK, see

for it takes the Enemy some time Oblique Defence, is that which to repair it. Mr. Dupas, Go- is under too great an Angle, as vernour of Naerden in Holland, to is generally the Defence of a ferepair his Fault in delivering the cond Flank, which can never be Town to the Hollanders, threw fogood as a Defence in Front, nor

very in clearing the Trenches, same number of Angles, and caand was killed nailing the Ene- pable of being fortified with 8

the Garrison of Verne, and their OFFICER in General, is a nailing up the Enemies Cannon, Person employed in some Office. was no lefs disadvantagious to Officer in the Army, is a Person hathe Enemy, than it was glorious ving a Command in the Army. and advantagious to the Befieg- Those having Commissions from the Queen or General, are called NAVE of a Wheel, is that short Commission'd Officers, which inthick piece in the centre of the cludes all from the General to an Wheel, which receives the end of Enfign. Such as have no Commisthe Axletree, and in which the fion, but only Warrants from their ends of the Spokes are fixed; it is Colonels, are called Warrant-Officers, bound at each end with Hoops of as Quarter-Masters of Horse, and Iron, called the Nave bands: It Surgeons. Those that have neihas likewise in each end of the ther Commissions nor Warrants, Hole, through which the end of are called Staff-Officers, as Serthe Axletree goes, a Ring of Iron jeants, Corporals, Lanspesades, &c.

with many good Qualifications, Pioneers make in the night time as presence of Mind, Judgment to on their knees, generally a Musquetexecute what he is commanded to Shot from the place, or half a the best Advantage; Conception, Cannon-Shot, and sometimes withto apprehend easily what he is out the reach of Cannon-Ball; to do; Complexion, to enable him especially if there be no Hollows to endure the Fatigues of War; or Rifing Grounds to favour Integrity, that what soever is en- them, or if the Garrison be strong, trufted to him, he may behave and their Artillery well ferved. himself honourably; Diligence This small Foss is afterwards ento execute every thing with dif- larged by the next Pioneers which patch; Secrecy in all Affairs of come behind them, who dig it Consequence, with which he is deeper by degrees, till it be about Esteem of his Superiours; No deep, especially if they be near

jor-General, Brigadeer - General, Break Ground. Quarter-Master General, and Ad- OPEN, is a Word of Com-

proper Letters.

tenants: Cornets, and Ensigns.

breaking of Ground by the Be- flance commanded. Open your fiegers, in order to carry on their Files to the Right or Left. Approaches towards a place: The ORDER, is a Word of Comdifference betwixt opening and mand, as Order your Firelock, is carrying on the Trenches, is that the planting the But end of the the first is only the beginning of Piece against the middle of the the Trench, which is always turn- outside of the Right Foot, with ed towards the Besiegers: It is the Lock outwards. Open or march-

An Officer ought to be endued begun by a small Foss, which the entrusted; Conduct to gain the 4 yards broad, and 4 or 5 foot Presumption nor Obstinacy, as be- the place; to the end, the Earth ing the stumbling Blocks of such which is taken out of it may be as have too much Spirit. thrown before them to form a General Officers, are such as Parapet, to cover them from the command a Body of Troops of se- Fire of the Besieged: The place veral Regiments, as the Captain- where the Trenches are opened, is General, Lieutenant-General, Ma- called the end of the Trench. See

jutant-General, fee each at their mand, as Open your Ranks backward to such a distance, is when the Field Officers, are those who Ranks fall back without changing have a command over a whole Aspect, observing their Right Regiment, as the Colonel, Lieute. Hand Men and their Leaders. Open nant-Colonel and Major. your Files from the Centre, is when Subaltern Officers, are the Lieu- they face outwards from the Centre: if there be an odd File TO OPEN Trenches, is the first it stands, the rest take the di-

wile Words of Command in the Exercise of a Battalion of Foot.

Order of Battel, is a Disposition of Battalions and Squadrons of an Army, in one or more Lines, according to the Nature of the Ground, either to engage an Army, or to be reviewed by the General

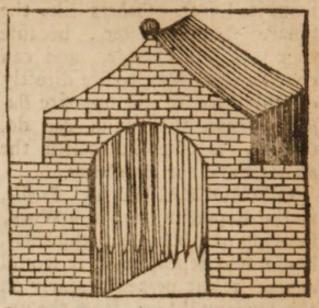
Orders, are the Notice given every night by the General to the Lieutenant-General of the Day, who conveys them to the Major-. General, and he to the Brigade jutants, and they to the Serjeants, and are preferable to Herses or that the Army may know when Portcullifes, because these may be to march; what Detachments, either broke by a Petard, or they Conveys, Parties, &c. are to go may be stop'd in their falling they are to Forrage or Graze; gainst an Orgne, for if it break when they are to Muster or Re- one or two of the Pieces, they view, and many other things; immediately fall down again, the Orders are generally given out and fill up the vacancy; or if fignifie all that is commanded by they have no dependance on one a Superiour Officer.

ORDNANCE, all forts of plain them better.

fence. See Cannon.

be let fall in case of an Enemy. of the Besieged, for their round-

ing Order, and close Order, are like- Their Disposition is such, that



Major, who gives them to the Ad- they stop the Passage of the Gate, abroad next morning; when down, but a Petard is useless ain the evening at the Head Quar- they stop one or two of the Pieces ters, where all the Generals meet from falling, it is no hindrance at that time. Orders in general, to the rest, for being all separate, another. The Figure will ex-

Guns, Mortars, Firelocks, Cara ORILLON, is a Mais of bines, Piftols, Pikes, Swords, &c. Earth faced with Stone, built on all forts of Arms or Stores, be- the Shoulder of a Cazemated Balonging either to Offence or De- stion, to cover the Cannon of the retir'd Flank, and hinder its ORGNES, are thick long being difmounted by the Enepieces of Wood pointed and shod mies Cannon. They are made with Iron clear one of another, sometimes round, and sometimes hanging each by a particular Rope square; some maintain the round or Cord over the Gate-way of to be best, because they are not so a strong Place, perpendicular, to easily beat down by the Cannon from its Effect. Others like the keep an Enemy at distance, and square Orillons better, because to hinder his getting any Advanthey are less Charge, and can tage of Hollows or Rising Grounds contain more Men to fire directly that may happen near the Counteron the Face of the opposite Ba- scarp of the Place; for these Cavistion, than the round can do. ties and Eminences may serve for Orillon, is likewise called the Lodgments to the Besiegers, and

Profile.

rence can be equal.

Crown-works, Counter guards, En- them from the Fire of the Place. velopes, Swallows-Tails, Lunettes, OXIGON, see Triangle. &c. These serve not only to co-

ness hinders the Ball very much ver the place, but likewise to Shoulder and the Epaulment. facilitate the carrying on their ORTHOGRAPHY or Profile, Approaches, and raising their Batis the Representation of a Work, teries against the Town. When thowing its breadth, thickness, Out-Works are for some Reasons height and depth, so as it would placed one before another, as in appear, if cut perpendicularly on the general Plan, you'll find a Rathe Horizontal Line, from the up- velin before a Curtin, a Horn-work permost to the lowest of its before the Ravelin, and a small parts; as Ichnography supposes an Ravelin before the Curtin of the Edifice or Work cut Horizontally, Horn-work; then the nearest to the fo Orthography supposes it cut Body of the Place must be the Vertically, and never shows the highest, tho' lower than the length of any of its parts, as a Works of the Place, that they Plan does, but then a Plan shows may command gradually those nothing of the height or depth which are without them, that the of a Work. See the Figure at Enemy may be obliged to diflodge, in case they had Possession OVAL, is a plain Figure of them, as likewise lest the Enebounded by its own Circumfe- my, being Masters of them, should rence, within which no Point can the easier cover themselves; so be taken, from which all Right that the first Ravelin ought to be Lines drawn to the Circumfe- lower than the Tenaille of the Place, and higher than the Horn-OUT-WORKS, which are like- work, and the Horn work ought to wife Advanced Works, Detached be higher than the small Ravelin and Exterior-Works, are Works which covers it. The Gorges of of several forts, which cover the all Out Works must be plain, lest Body of the Place; as Ravelins, the Besiegers being Masters of the Half-Moons, Tenailles, Horn-works, Works, it should serve to cover.

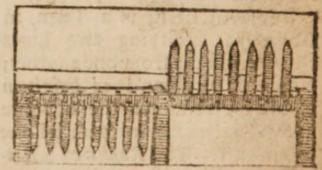
P.

a half.

wards the Enemy, that in case pitch'd over. the Besiegers should endeavour to Turning-Palisades, is an Inven-Cords may slip off, having no the Palisades of the Parapet of the hold. Palisades are planted on the Berm at the Foot of Bastions of Places furrounded with a wet Foss, to prevent an Escalade or Surprize. They are likewise planted in the bottom of dry Moats, especially if there be Traverses made. Sometimes they are fet in

just get betwixt them. The method of planting them, is by digging a Trench of about a foot, or PACE, a Measure used in Geo- a foot and a half wide, and three metry and Fortification, and much foot deep, which after the Palispoke of in Military Discipline. A sades are set in, as close to one Geometrical Pace is 5 Foot, an another as before said, is filled Italian Mile is 1000 Geometrical with Earth, which is beat and Paces; an English Mile is 1250; set very, hard about the Palisades a common Pace is two Foot and with Rammers or Stampers. Palisades are very useful, and a PALISADES, are long pieces good Defence in all forts of Forof Wood or Stakes, planted ge- tifications, provided they be well nerally before Posts, which might planted and close. They arelikebe taken by Surprize, or where wife ufeful in Sieges, to plant on the Access is very easie, to secure the out-side of the Fosses of the them bothfrom a fudden and a Batteries, to prevent the Besiegeds regular Attack. They are gene- surprizing the Batteries in their rally 8 foot long, and 6 or 7 in- Sallies, and their nailing the ches square; the one end is Cannon. Palisades are either pull'd pointed, and the other is let 3 up by shaking them with Ropes, foot perpendicularly into the cut down by the Grenadiers, Ground: fometimes they are beaten down with Cannon, or planted obliquely, pointing to burn'd down with small Fascines

pull them out with Cords, the tion of Coeborne's. To preserve



the Gorges of Half-Moons and o Redans from the Besiegers Shot, ther Out-Works. But above all, he orders them fo, that as many the Parapet of the Covert Way must of them as stand in a rods length, be well palisaded, either on the turn up and down like a Trap, Parapet, or in the Covert Way, with all the facility imaginable, They are to stand so close, that They are a good Defence, bethe Muzzle of a Musquet can but cause they are not in fight of the

on their Attack, and yet are al- the Defence of the Place befieged; ways ready to do the proper Ser- they are likewise called Lines of vice of Palisades. They are like- Communication and Boyau's. wise frugal, because they may be PARAPET, is an Elepreserved in the Magazines, and vation of Earth, designed for need not be left on the Parapet; covering the Soldiers from the besides there may be square Pali- Enemies Cannon or Small-Shot, sades kept ready to supply the wherefore its thickness is from place of such as may be broke by 18 to 20 foot; it is 6 foot high the Besiegers Cannon. The Figure on the inside, and 4 or 5 on the shows one set up, and another side next the Country; it is raidown.

Regiment.

which if prolong'd ad Infinitum Occasion. Bastion.

Besiegers, but just when they bring Trenches or Lines made parallel to

fed on the Rampart, and has a PAN of a Bastion, is the same Slope above called the Superiour with the Face of a Bastion. See Talus, and sometimes the Glacis of the Parapet, on which the Sol-PARADE, is the place where diers lay their Musquets for to Troops meet together to go upon fire over: This Pente or Slope Guard, or any other Service. In makes it easie for the Musqueteers a Garrison where there are 2 or 3 to fire into the Ditch, or at least or more Regiments, each has their on the Counterscarp. To fire razing parading Place appointed, where the Glacis of the Parapet, is calthey are to meet upon all Occa- led firing in Barbe. The Exfions, especially upon any Alarm, terior Talus of the Parapet, is the In a Camp, all Parties, Convoys, Slope facing the Country. The or Detachments that are to go a- height of the Parapet being 6 broad, have a parading Place ap- foot on the infide, it has a Banpointed them at the Head of some quett or two for the Soldiers who defend it, to mount upon, that PARALLEL, is a Term in they may discover the Country Geometry, fignifying two Lines the better, as likewise the Foss and equally distant from one another; Counterscarp, to Fire as they find

would never meet: the opposite Parapet of the Covert Way or Co. fides of a Square are parallel one ridor, is what covers that Way. to another. The Ranks of a Bat- from the fight of the Enemy, talion are likewise parallel, so are which renders it the most dangethe Files amongst themselves, rous Place for the Besiegers, be-The Counterscarp is generally cause of the Neighbourhood of drawn parallel to the Faces of the the Faces, Flanks, and Curtins of the Place; it is the same with Parallels at a Siege, fignifie the Glacis, which fignifies that whole

Mass of Earth that serves to cover PARLEY, see Chamade. wards the Country.

appointed for the Encampment of very well; employed in furprian Artillery, which is generally the zing the Enemies Convoys, or in Rear of both Lines of the Army. getting Intelligence.

See Artillery-Park.

celfary for a Siege; as Bombs, tercept their Convoys: Petards, Carcasses, Hand Grenades, Partuisan, is a Weapon some Powder, Ball, &c. with all forts times carried by Lieutenants, not of Instruments for removing the unlike a Halbert. locks.

giment, but the chief of all is the vent the Army's being surprized. most part that the Sutlers are fur- without any regard to Passes. nished. But I think the place PAS DE SOURIS, is the same where the Bread-Waggons are with Liziere, see Liziere. drawn up, and where the Soldiers PATEE, a small Work not unreceive their Ammunition Bread, like a Florse shoe, that is to say an being the Store of the Army, is Elevation of Earth of an irregu-

the Goridor, and goes sloping to- PARTISAN, is a Person who is very dexterous in commanding PARK of Artillery, is the Place a Party, and knows the Country

Partisan-Party, is a small Body Park of Artillery at a Siege, is a of Infantry given to a Partisan, to Post tortified out of Cannon-shot make an Incursion upon the Eneof the Place belieged, where are my, to lurk about their Camp, to kept all the Arms and Utenfils ne- disturb their Forragers, and to in-

Earth, as Spades, Shovels, Pick- PARTY, is a small Body of axes, Bills Hows, and Wheel- Horse or Foot, fent into the Enebarrows, with a great many things mies Country, to pillage or take more too tedious to be related Prisoners, or to oblige the Counhere. Great Precaution is to be try to come under Contribution, had about the Park of Artillery, which is to pay a certain fum of for fear of Fire; therefore the Money to redeem themselves from Centries have either Pikes or Staves Plunder. Parties are often sent made on purpose, for they are out by a General to view the Way not allowed to stand with Fire- and Roads, and to fetch Intellia gence, to look for Forrage, or to Park of Provisions, is the Place amuse the Enemy. Upon a March where the Sutlers pitch their Tents, they are frequently fent upon the and fell Provisions to the Soldiers; Flanks of the Army, to discover which is in the Rear of each Re- the Enemy if near, and to pre-

Ground alotted at the Head Quar- Party-Bleu, are a Company of ters for the Sutlers, where there is Villains who infest the Roads in still every thing requisite to be the Netherlands; they belong to had, and it is from thence for the neither Army, but rob both fides,

properly the Park of Provisions. lar Form, but for the most part

Ff 2

oval, having a Parapet; it is generally raised in marshy Grounds, to cover the Gate of a Place; it has only a fore-right Defence, and has nothing to flank it.

PATROUILLE, is a Night Watch, confisting of 5 or 6 Men commanded by a Serjeant, who are fent from the Guard to walk in the Streets and prevent Dif-

order.

To Patrouille, is to go over the Quarters of a Town to observe what is doing in the Streets, and Metal shaped like a Sugar-Loaf or to be careful of the Tranquillity High Crown'd. Hat, made for breakand Surety of the Place.

a Tent, see Tent.

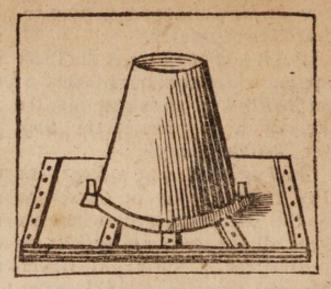
ges which a Soldier has for his at bottom one and a half; the Maintenance in the Service, and is thickness of Metal at the Neck is greater or leser, according to the half an inch, and that of the

ment.

gons, which form so many Angles, plate of Iron on the outside, the like number of Bastions.

fides equal.

PETARD, is an Engine of



ing open Gates, Draw-Bridges, PAVILION, an old Term for Barricades, Barriers, &c its length is 7 or 8 inches, the diameter of PAY, is the Allowance or Wa- the Mouth is 5 inches, and that Custom of different Countries. Breech 12 or 15; its Charge of Pay-Master, is he who is entrust- Powder is ; pound or thereabouts, ed with the paying of a Regi and it weighs about 55 or 60. There are much larger and stronger PEDRERO, a small fort of Petards, and there are likewise Guns used on the Quarter-Decks smaller: The first are employed of ships; some of them have in breaking open strong Rein-Breeches to screw out, so that forced Gates, and the last such as they receive the Charge that way. can make but small Resistance. PELATOON, see Platoon. When the Petard is loaded with PENTAGON, is a Figure Powder, it is put upon a strong bounded by five Sides or Poly- piece of Plank, cover'd with a capable of being fortified with which covers the Ouverture, being hollowed a little for the purpole; PERPENDICULAR, is a the place where they join, is done straight Line raised upright upon over with Wax, Pitch, Rofin, &c. another straight Line, without to inforce the Effect. This being leaning to one fide or another, done, it is carried to the Place but making the Angles on both defigned to be blown up, where 101nCounter-mines to break through Foot, nor change Feet to eafe into the Enemies Galleries to dif- himself. appoint their Mines.

my, fee Ax.

drive through Fascines or Gazons led his Piece. hafte.

their Horles.

joining the Plank exactly to the Criminal with his Foot on one of Gate, the Petard is stayed behind these small pointed Sticks, and and fired by a Fusee, that the Pe- tying up his Hand to a Ring above tardeer may have time to get off. his Head, fo that he neither stands They are fometimes used in nor hangs, nor can he shift his

Picket-Guard, see Guard.

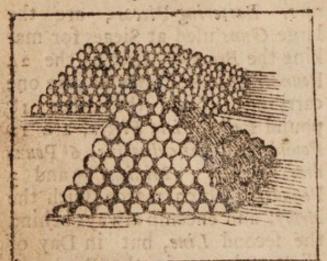
PETARDEER, is he who PIECE of Ordnance, includes loads, fixes and fires the Petard, all forts of great Guns and Morand ought to be a Man of Cou- tars. Battering-Pieces, are the rage, for he is often exposed. large Guns used at Sieges for ma-PICK-AXES, are a fort of king the Breaches, such as the 24 Hand-tools very useful in an Ar- Pounder and the Culverine ; the one carrying 24, and the other 18 PICKET, is a small pointed pound Ball. Field Pieces, are 12 Staff shod with Iron, which serves Pounders, Demi-culverins, 6 Pounto mark out the Angles of a For- ders, Sakers, Minions, and 3 tification, and the principal Parts, Pounders, which march with the when the Engineer is tracing a Army, and encamp always behind Plan upon the Ground with a the second Line, but in Day of Line. There are likewise small of Battel are in the Front. A pointed Stakes, which ferve to Soldiers Firelock is likewise cal-

to keep them fast when the Earth PIKES, are the Arms carried is bad, or the Work raised in by Pike-men, who used formerly to be a third part of the Company, Pickets, is likewise the Stakes but they are now turned to Muswhich the Troopers drive before queteers. The Pike is made of a their Tents, about 2 yards distance; point of Iron in form of the Leaf from one to another of these Pick- of an Apricock-Tree, called the ets, is stretched a Rope called the Spear, about 4 inches long, and Picket-Rope, to which they tie 2 broad in the middle, from whence it runs to a point: The Picket, is likewise a Stake of Spear has two Branches or Plates nine or ten foot high, fixed in of Iron to fix it to the Staff, of the Ground, and standing upright; about 2 foot long, and strong round the foot of it are small enough to refift the stroak of a Sticks with sharp points: this is broad Sword. The Staff or Shaft at the Head of each Regiment of of the Pike, is about 13 or 14 Herse, to punish Crimes that do foot long, made of a slip of Ash not deserve Death, by putting the very streight, about an inch and a

Ff 3

which is shod with Brass or Iron king a Piramide, whose Basis is a sharpened to a point to stick in Square. the Ground.

by an Officer of Foot, and differs try, to march along with an Arfrom a Pike, because it is but 8 or my for mending the Ways, for ler and narrower.



posing them in Magazines, is the hollowed to receive it. prling them up regularly in the PLACE, fignifies a Fortress Courts of the Arfenal, as may be or Town fortified regularly or feen at Woolwich; as suppose 385 irregularly, and is often used ; Bombs to be made in a Pile, the as when we fay it is a strong farst must be laid in a square of Place, &c.

quarter thick at the greatest end, will terminate in one Bomb ma-

PIONEERS, are fuch as are Half-Pike, is the Weapon carried commanded in from the Coun-9 footlong, and the spear is smal- working on Entrenchments and Fortifications, and for making Ap-PILE or Pyramid of Bombs or proaches; but the Soldiers are most generally employed in all these things.

PISTOL, is a Fire-Arm used by the Cavalry; the length of it with the Stock, is about a foot and a half, carrying a Ball of half an ounce weight. Every Trooper has a pair of Piftols before

him.

PIVOT, is a piece of Iron or Brass rounded at the point, that it may turn easily round in a Ball, which is the way of dif- piece or fole of Iron or Brais,

to on each fide, which makes 100 Place of Arms in a Town, is a in the first Bed, and let half a space lest near the Centre of the foot in the Ground; to the end, Place, where generally the Grand the great weight which comes Guard is placed, and where the above them may not force them Soldiers of the Garrison come to to flide out, for then the whole draw up in Battalia to mount the Pile falls: the second Bed will be Guard, from whence they are &r, which is 9 of a fide, and marched to their particular Posts. must be laid on the vacant space On an Alarm, the Soldiers who are which happens between every 4 not on the Guard, are to repair Bombs of the first Bed; and the thither with their Arms. In Places third Bed being eight of a fide, regularly fortified, the Place of is 64 laid the fame way, and fo Arms ought to be in the Centre, to the top of the File, which and of a Figure like that of the Paly-

Polygon.

Place of Arms of an Attack, or perpendicular to the Horizon. of a Trench, is a Foss with a Pa- Plan, Ground-Plot, or Ichnograrapet, or an Epaulment to cover phy in Fortification, is the Reprea Body of Horse or Foot, where sentation of the first or fundathey may be at their Arms to mental Tract of a Work, shewing withstand the Sallies of the Be- the length of its Lines, the quanfieged. The Places most conve- tity of its Angles, the breadth of nient for making Places of Arms, the Ditches, thickness of the Ramare such as can easily succour one parts and Parapets, and the distance another, and are out of fight of of one part from another, as the the Defences of the Place besieged, general Plan at the beginning as Hollows, of Hollow Ways, shows. So that a Plan represents especially if they cross one an a Work, such as it would appear other, for their depth serves as a if it were cut equal with the Le-Parapet to cover the Infantry: If vel of the Horizon, or cut off at they have not that natural Depth, the Foundation. But it marks Gabions, Sand-bags, or whatever the feveral parts of the Works, Guard of the Trenches.

view or the like.

affembled.

Polygon; its greatness ought like- other. Horizontal-Plan, is when wife to be proportioned to the is is parallel to the Horizon; and it is a Vertical-Plan, when it is

they may supply that Defect with neither the Heights nor Depths of can hinder the Besiegers from see- which is properly Profile, and ing into it. If there be a Fols which expresses only the Heights, made round it, it is called a Re- Breadths and Depths, without tadoubt. In carrying on the Trenches, king notice of the Lengths. As there must be such Redoubts raised Architects, before they lay the at convenient distances to lodge Foundation of their Edifice, make the Infantry, which have the their Design upon Paper, by which means they find out their Place of Arms of a Camp, is the Faults; so an Engineer before tra-Place chosen at the Head of the cing his Works on the Ground, Camp for the Army to form them- should make Plans of his Designs selves in Line of Battel, for a Re- upon Paper, to the end he may do nothing without serious De-Place of Arms of a Troop of Horse, liberation. Plans are very useful or Company of Foot, is the Place for Generals or Governours, in where the Troop or Company are either attacking or defending a Place, in chusing a Camp, deter-PLAN, as a Term in Geome- mining Attacks, conducting the try, is a Superficies, whose parts Approaches, or in examining the are all equally disposed betwixt Strength and Weakness of a Place; its Extremities, so that one part is especially such Plans as represent neither higher nor lower than an- a Place with the Country about

Ff

it, showing the Rivers, Foun- has generally a Platform for her tains, Marshes, Ditches, Valleys, self. See Battery. Mountains, Woods, Houses, Churches, PLATOON, or rather Pelopen about a Place.

broad, fee Madrier.

which the Prise Bolts go, and on toon. which the Hand-spike rests, when PONIARD, a fort of short it poises up the Breech of the Sword used in Spain and Italy. Piece. Breaft-Plates are the two POINT Mathematick, is what at the Train of the Car- cannot be expressed or aconceived.

upon Sleepers, floping a little to- fince generally approved. wards the Embrasure, for the Guns POLYGON, is a Fi-Wheels from finking into the and is either Regular or Irregu-Ground. The Slope serves to di- lar, Exterior or Interior. minish the Reverse of the Piece, Polygon Regular, is whose Angles

and other particulars which hap- ton, a small square Body of Musqueteers, fuch as is uted to be PLANKS or Madriers, are drawn out of a Battalion of Foot, pieces of Oak very thick and when they form the Hollow Square to strengthen the Angles: PLATES. The Prise-Plates, The Grenadiers are generally thus are two Plates of Iron on the posted. Peloton is the French Word, Cheeks of a Gun-Carriage from the only the Vulgar Corruption has Capesquare to the Centre, through brought it to be pronounced Pla-

Plates on the Face of the Carriage, hath no parts; which is to fay, one on each Cheek. Train-Plates, neither Length, Breadth nor Thickare the two Plates on the Cheeks ness, and which consequently

riage. Dulidge-Plates, are the fix Point Blank of a Gun, is the di-Plates on the Wheel of a Gun- stance she throws a Ball in a sup-Carriage, where the Fellows are posed direct Line; the Gun being joined together, and serve to laid at no Elevation, but levell'd strengthen the Dulidges. parallel to the Ho izon. I say PLATFOR M in general, is an supposed direct Line, because it is Elevation of Earth on which Can- certain and eafly proved, that non is placed, such as the Mounts a Ball cannot fly any part of its on the middle of Curtins: But it Range in a right Line, but the is likewise a sort of Bastion con- swifter it flies, the nearer it ar-Aructed on a Reentring Angle, proaches to a right Line; or the when its two Faces make a Right swifter it slies, the less crooked is Line. Platform of a Battery, is his Range. This was the Opini. a Floor of Boards nailed down on of Nicolas Tarraglia, and is

to run upon, and to keep the gure of more than four Sides,

and for the more easie running her and Sides are equal. It has an up to her Embrasure. Each Gun Angle of the Centre, and an Angle of the Polygon. The Centre of a . of the Figure.

and Angles are unequal.

fortified inwards. Errard was march over. the first that fortified after this PORT, see Gate. Manner. Count Pagan improved PORTCULLISES, fee it, and Monsieur de Vauban Herse. brought it to perfection.

Method.

when the Army marches, and abandon or quit a Post; to gain drawn by 5 Horses. Each Boat a Post Sword in Hand, &c. the Water, and placed about 2 the youngest Regiments. yards afunder, each fasten'd with Advanc'd-Post, is a spot of an Anchor, having belides, a Ground seized by a Party to fe-

Regular Polygon, is the Centre of Strong Rope which runs through a Circle which circumscribes the the Rings, and is fasten'd on each Polygon, that is, whose Circumfe- side the River to a Tree or a Stake rence passes through all the Angles made very fast in the Ground. The Baulks are laid crofs the Irregular Polygon, is whose Sides Boats, at some distance from one another, and the Chefts upon Exterior Polygon, is the Lines them joined close, which makes drawn touching the Points of the a Bridge in a very fhort time, Flanked Angles, when a Place is for Horfe, Foot or Artillery to

PORT-FIRE, is a Composi Interior Polygon, is to fortifie fition of Meal-powder, Sulphur and outwards, which makes the An- Saltpetre, drove into a cafe of Pagles of the Polygon to be the An- per, but not very hard; it is about gles of the Gorge, so that the 9 or 10 inches long, and is used whole Bastion is without the to fire Guns or Mortars instead of Polygon. Manesson Mallet, De Ville, Match, but then it is cut into and most Engineers follow this pieces of about an inch long, and put in a Linstock, or cleftStick.

PONTON, is a late Inven- POST, is any fort of Ground, tion, being a Boat of Latten fortified or not, where a Body of of about 8 yards long and 2 Men can fortifie themselves, or broad; the form of it is a long be in a condition of fighting an Square, having a large Ring at each Enemy. To relieve a Post, is to corner; it is laid upon a Carriage go upon Guard in a Post; to

has an Anchor and Cable, and Post of Honour; the Advance-Baulks and Chefts belonging to it. Guard is a Post of Honour; the The Baulk's areabout 5 or 6 inches Right of the two Lines is the Post square, and about 7 yards long. of Honour, and is always given to The Chests are boards joined to- the eldest Regiments; the Left is gether by wooden bars, about a the next Post, and is given to the yard broad, and 4 yards long. next eldeft, and fo on; the Cen-When there is occasion for using tre of the Lines is the Post the these Boats, they are slipp'd into least honourable, and is given to

part of a Garrison, to march in PRIESTS BONNET, see Bonnet and out unperceived by the Ene- a Prêtre. my, either to relieve the Works, or to make Sallies.

POT, see Fire pot.

the Crack. Since the Invention a Garrison. ption of Powder, especially at nals; he is to go often abroad Sieges, that it cannot be deter- round the Army, to hinder the mined; for the Cannon, Bombs, Soldiers from pillaging; he in-Hand-Grenades, Musquets, Mines, dites Offenders, and executes and other extraordinary Diffri- the Sentence which is probutions, besides the Waste, con- nounced; he likewise regulates lume a great deal.

is a Gun carrying a Ball of 24 of Provisions. eight foot; and Three Pounder,

cure their Front, and to cover the carries a Ball of three pound, Posts that are behind them. the diameter of the Bore is three POSTERN, is a small Door inches, and the length of the in the Flank of a Bastion, or other Piece about 6 foot or 6 and ahalf.

PROVISIONS, is what a General ought to be very careful of, never suffering his Army to be POUCH; a Grenadiers Pouch, in want of Subfiftance, elfe is a square Case or Bag of Lea- they must needs perish. AlGoverther, with a flap over it, hanging neur of a Garrison ought to be in a strap of about two inches well provided of Provisions of all broad over the Left Shoulder, in forts, such as Wheat, Rye, Peafe, which be carries his Grenades. Beans, Barley, Beef, Mutton, Veal, POWDER, is a Composition Bacon, Cheese, Butter, Salt, Pepper, of Sulphur, Saltpetre, and Char- Onions, Nutmegs, Beer, Wine, coal. The Sulphur and Charcoal Brandy, and many other things take fire, and the Saltpetre makes which are absolutely necessary in

of Powder, a great many War- PROVOST-MARSHAL of an like Machines have been invented, Army, is one appointed to secure which occasions such a consum. Deserters and all other Crimithe Weights and Measures of the POUNDER, as a 24 Pounder, Army, and the Price of all forts

pound, its diameter is six inches, PROFILE; Engineers to rethe length is from ten to twelve present the Heights, Depths and foot long, it is a good battering Thickness of a Work, with the Gun. Twelve Pounder, is a Gun Depth and Breadth of the Fosses, carrying a Ban of twelve pound, &c. do it by Profile or Orthograthe diameter is four inches and phy, which supposes the Work to s eighths, its length from eight be cut perpendicularly from top to ten foot. Six Pounder carries to bottom. The following Fia Ball of fix pound, its dia- gure shows the Profile of a Rammeter is three inches and fix part, Fausebray, Foss, Covert Way, eights, its length from feven to and Esplanade; every thing is ex. explained by Letters, and the pro-

An Explanation of the Figure.

1, 2, 3, 4. The Solidity of the Ram-

1, 2. The Basis of the Rampart.

3, 4. The Top of the Rampart.

3, 5. The Height of the Rampart.

1, 3. The Interior Talus or Slope of the Rampart.

3, 4. The Exterior Talus of the Rampart.

3, 7. The Terre plein.

7, 4. The Basis of the Parapet.

7, 15. The Banquett.

8, 13. The Interior Talus of the Parapet.

4, 12. The Exterior Talus of the Parapet.

12, 13. The Superior Talus of the Parapet.

9, 13. The Interior Height of the Parapet.

10, 12. The Exterior Height of the Parapet.

4. The Cordon.

11, 16, 17. The Fausebray with its Banquett.

17, 18. The Ligiere or Berm.

18, 19, 20, 21. The Fofs.

18, 20. The Scarpe.

19, 21. The Counterscarp.

22. The Cunette.

6, 21. The depth of the Foss.

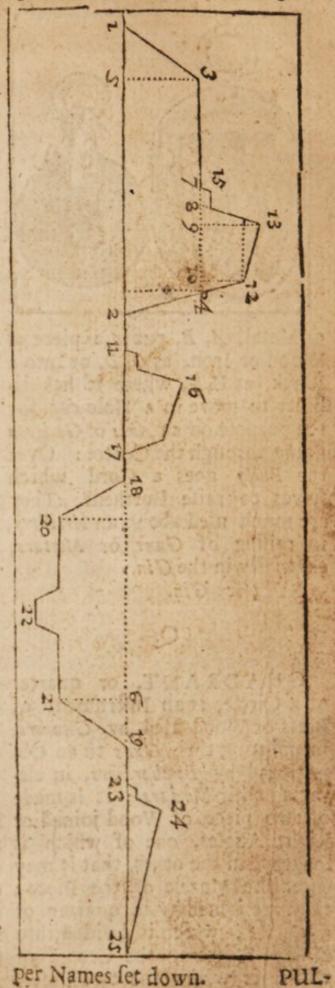
19, 23. The Covert Way.

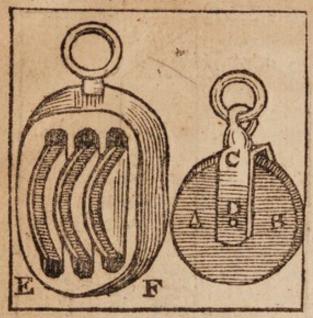
of the Covert Way.

of the Covert Way, with its
Banquett.

23, 25. The Basis of the Glacis.

24, 25. The Pent or Slope of the





or Metal, A, B, put in a piece of QUADRAT; to quadrat a berty to move in a Hole cut for the Wheels be of an equal height. the purpose, on an Axis or Gudgeon QUARTER, or Quarters, going through the Centre: Over has feveral Significations in Marthe Pully goes a Cord which tial Affairs. ferves to raise Burthens. They especially in the Gin.

PYE, see Gin.

enter the Muzzle of the Piece; entrenching, and the conveniency they are joined by a quarter of of Forage and Water. a Circle, which is divided into Quarter of an Assembly, is the ninety Degrees, the Centre of Place where Troops meet for to which is where the two Pieces

PULLY, is a Wheel of Wood join, from whence there hangs a Thread with a Plummet, which marks the different Elevations of Pieces, and the greatness of the Angles. The way of using it, is by putting the longest side into the Muzzle of the Piece; the Plummet falls perpendicularly, and marks the Angle on the Quadrant; when the Gun or Mortar is elevated to the Degree defired, it is kept there by Coins of Wood put under the Breech of a Gun, or betwixt the Bracket-Bolts of a Mortar.

Wood or Iron, as C, D, or into a Piece, is to see whether it is duly Block, as E, F, where it has li- placed in its Carriage, and that

Quarter, signifies the sparing are much used about an Artillery, Mens Lives, and giving good in raising of Guns or Mortars, Treatment to a vanquish'd Enemy; fo it is faid the Conquerours offered good Quarter: The Enemy asked Quarter. We gave

no Quarter.

Quarter in general, is the QUADRANT, or quarter Ground on which a Body of Troops of a Circle, is an Instrument of encamp, and signifies likewise the Brass or Wood used by Gunners, Troops encamped; as to beat up in pointing their Guns to an Ob. the Enemies Quarter, is to drive ject, and by Bombardeers, in ele- them from their Ground or Envating their Mortars; it is made campment; therefore it ought to of two pieces of Wood joined at be in the most convenient Place, Right Angles, one of which is as well for the Nature of the longer than the other, that it may Ground, as for the Advantage of

march

march in a Body, and is the refresh themselves, during a part

campment upon one of the most Field again. principal Passages round about a Quarter-Master of Horse, is a Place besieged, to prevent Re- Warrant-Officer appointed by the lief and Convoys: When it is Colonel, he takes up the Ground faid to be weaken'd.

where the General of an Army has a Quarter master.

neral.

Querter entrench'd, is a Place panies.

same with a Place of Rendezvous. of the Campaign; that having re-Quarter-Guard, see Guard. fresh'd and recover'd themselves, . Quarter at a Siege, is the En- they may be ready to take the

commanded by the General, it is for the Troop, and divides it, in called the Head Quarters of the giving so much for each Tent; Army: When the Camp is marked he receives the Orders, keeps a out about a Place befieged, then Lift of the Troop, visits the Stables, the Quarters are said to be dif- and takes care of the Arms. He posed: When great Detachments marches in the Rear of the Troop, are made from a Quarter for but in Camp his Tent is pitch'd Convoys, &c. such a Quarter is in the Front. In Winter-quarters he receives and distributes the Fo-Head Quarters, is the Place rage to the Troop: Each Troop has

his Quarters: it is generally near Quarter-master of Foot, is an Ofthe Centre of the Army. The ficer who takes care of Encamp-Quarters of the Generals of Horse, ing the Regiment, for there is is in the Villages that happen but one to a Regiment of Foot; he behind the Right and Left Wings; attends the Quartermaster-General the Generals of Foot, are often upon a March, to know where in the same Village with the Ge- the Ground is for the Regiment, which he divides among the Com-

fortified with a Ditch and Para- Quartermaster-General, is a conpet, to secure a Body of Troops. fiderable Officer in an Army, and Winter-Quarters, is sometimes ought to be a judicious Man, and taken for the space of time in- a Man of great Experience, and cluded between the leaving the to understand Geography; and Camp, and taking the Field; but fince his Function is to mark the it is more properly the Places Marches and Encampments of an where the Troops are lodged du- Army, he should know the Counring the Winter. According as try perfectly well, all the Rivers, the Troops are a long or thort time Plains, Marthes, Woods, Mounin Garrison, the Winter-Quarters tains, Passages, Defiles, &c. even are faid to be short or long. to the smallest Brook. The Even-Quarters of Refreshment, is the ing before a March, he receives place where the Troops that have the Orders and Rout from the Gebeen much fatigu'd are fent to neral, and appoints a place for the

Quar.

Quarter-Masters of Foot and Horse, Ordnauce between a Falconette to meet him next Morning, with and a Base, seldom used.

Right Angle, keeping his Ground, pleafant Sight.

Wheel.

Tail.

upward.

R.

whom he marches to the next RACKET, is a case of Pa-Camp, where being come, and per rolled very hard on a former having viewed the Ground, he of Wood, choaked at one end marks out to the Quartermasters with a small Cord, and drove the Ground allow'd each Regi-full of a Composition of Mealment for their Camp; he chuses powder, Saltpetre, Sulphur, and the Head-quarters, and appoints Coal, sometimes without Saltthe Villages for the General Offi- petre; it has a small Rod tied to cers of the Army, where they shall the side of it, called the Tail of quarter; he appoints a proper the Racket; it is covered with a place for the Encampin nt of the Cap of Paper running to a point, Train of Artillery; he carries the in which are placed Stars, which Army a Foraging, and plants the are a Composition of Sulphur, Covering Party, for their Securi- Saltpetre, Meal powder, and Camty at all the Passes round them, phire, and other things that can and affifts in distributing the Win- make a clear Fire; when the terquarters to the Army. Racket is fired, it cuts the Air Quarter-Wheeling of a Body of with an admirable swiftness, lea-Men, is turning the Front where ving a stream of Fire behind it; the Flank was; which is done when the Racket is burned, the to the Right by the Man on the Stars take fire, and make a very

and facing about while the rest To RAISE a Siege, is to give over the Attack of a Place, and to Queve d' Tronde, see Swallon's quit the Works thrown up against it, and the Posts taken about it. Quit your Arms, is a word of As all Enterprizes do not always Command in the Foot, when they succeed, so sometimes an Army. lay down their Arms, at which is forced to raife a Siege, either they stand up, till they are or because of Distempers in the der'd to the Right about, at Camp, or the unfitness of the Seawhich they march clear of their fon, for the Rains, Snows, Winds, Arms and disperse; but upon the and cold Weather kills the Men; Beat of Drum they run to their besides the Besieged may bestrong-Arms with a Huzza, having their ly entrench'd, and receive Sup-Swords drawn, and the Point plies of Men and Provisions. If there be no Ground to fear a Sally from the Place, then the Siege may be raifed in the day time, by fending first the Sick and Wound.

RABINET, a small fort of ed, the Baggage, the Suilers,

broken

broken Cannon and Mortars, and the Earth: It ought to be broad if possible, all the Instruments enough to allow the marching of which have been used in the Siege. Waggons and Cannon, besides the The Artillery and Ammunition may Parapet which is raised on it; its follow, and a strong Rear-Guard thickness is generally about 12 must face the Besiegers, in case fathom, with the Talus or Slope. they should offer to charge the The Earth which makes the Ram-Country will allow.

length of the Lines, and the capa- Parapet, and the Esplanade. advantages of it.

RAMEAU, see Mine

of Earth round a Place, capable compose an Army or a Battalion. of covering the Buildings from Doubling of the Ranks, is the putview, and of refifting the Cannon ting two Ranks into one. of an Enemy, as likewise of rai- RATION, is a Portion of fing those that defend it, that Ammunition, Bread or Forage, they may discover the Country distributed to every Man in the about it. A Rampart ought to be Army. A Foot Soldier receives a sloped on both sides, that is, the Ration of Bread, which is a pound Mass of Earth which composes and a half for each day; and a the Rampart, ought to be larger Trooper a Ration of Bread, and anat bottom than at top, more or other of Forage. lefs, according to the nature of

Rear. But if there be any fear part, is taken from the outside of of an Enemy in Front, this Order it, because then the Rampart and must be altered according to the Foss are made at the same time; Prudence of the General, and ac- from which it follows, that their cording as the Nature of the Proportions depend on one another; for fince the Rampart is To raise a Plan of a Fortress, is made of a certain bigness, the the measuring with Cords and Foss must be dug deep enough to Geometrical Instruments, the afford Earth for the Rampart, the

city of the Angles, that by know- RENDEZVOUS, is the ing the length, breadth, and Place appointed by the General, thickness of all the different parts where all the Troops which are to of a Fortification, it may be repre- compose his Army are to meet at sented in imall upon Paper, so as a day prefix'd, notwithstandto know the Advantages and Dif- ing Wind, Rain, Snow, Cold, or other Chances of the Wea-

RAMMER of a Gun, is a RANK, is the Order or piece of Wood fitted to the dia- streight Line made by the Soldiers meter of the Bore, stuck upon a of a Battalion or Squadron, drawn long Staff, and is used in setting up side by side; this Order was home the Charge and the Wadding. established for the Marches, and Rammer, see Beetle and Scourer. for regulating the different Bo-RAMPART, is an Elevation dies of Troops and Officers which

RAVELINS, are Works rai- Camp, are always the Rear-Guard cover the Gates of a Town and New Camp. the Bridges. They confit of two Rear-Half Files, are the three and are defended by the Faces of when it is drawn up fix deep. the Neighbouring Bastions. The Rear-Line of an Army encamp'd, They ought to be lower than the ferve. Works of the Place, that they Rear-Rank, is the last Rank of may be under the Fire of the Be- a Battalion, when drawn up. fieged, in case the Enemy should : RECOILE, or Reverse of a Gun, of all Out-Works, ought to be gling of the Powder in the Cham-Cannon-Proof; that is to say, about ber, and its feeking every way to 18 foot thick; their Ramparts fly out. Guns, whose Vents are a ought to be the half or third of little forward in the Chace, recoile one of the Flanks of the Place, most. To lessen the Recoile of a and the breadth of their Moats Gun, the Platforms are generally half the breadth of the Moat of made sloping towards the Embrathe Place.

Ragant, lee Line.

ther the hindmost part of the viceable by Age or Wounds. Rebehind it.

Rear Guard, is that Body of the of Horse or Dragoons every year. Army which marches after the RECTANGLE, see Angle. Main Body; for the March of an REDANS, or Indented Works, Army is always composed of an are Lines or Faces forming Sally-Atvanc'd Guard, a Main Body, and ing and Re-entring Angles flanka Rear-Guard; the first and last ing one another, and are generalcommanded by a General Person. ly used on the sides of a River

sed on the Counterscarp before the of the Army, and are to see that Curtin of a Place, and ferve to every thing come safe up to the

Faces forming a Sailliant Angle, hindmost Ranks of a Battalion,

Half-Moons which cover the point or second Line, is always 400 or of the Bastions, have their De 500 yards distant from the first fences from the Ravelins. They Line, which is likewise called the are the most in use of all Out- Front Line; these two Lines run Works, and are by the Soldiers parallel, and have fornetimes a most commonly called Half-Moons, third, which is called the Re-

endeavour to lodge themselves is its running back when fired, there. Their Parapets, as those which is occasion'd by the strugsures of the Battery.

RAZANT, Line of Defence RECRUITS, are new Men raised to supply the Places of such REAR of an Army, or of a as have lost their Lives in the Battalion, signifies generally, ei- Service, or are rendred unser-Army, or Battalion, or the Ground cruit Horses, are the Horses brought up for compleating the Regiments

The Old Grand Guards of the which runs through a Garrison

Town.

Town. They were used before porating them into other Regi-Bastions were, and are by some ments.

thought preferable to them.

for the Musquettetrs to fire thro; way of Preferment. fometimes they are of Earth, ha- REGIMENT, is a Body of

the Governour to surrender it to in a Company.

trench'd and separated from the by Regular-Approaches. rest by a Foss. There is general- REINFORCED-RING of a Gun,

breaking a part, and retaining because of the great force of the the rest; or sometimes by incor- Powder.

REFORM'D-OFFICER, is one REDOUBTS, are square whose Troop or Company is broke, Works of Stone raised without and he continued in whole or half the Glack of a Place, about Mus- Pay, doing Duty in the Regiquet Shot from the Town, with a ment; he preserves his Right of Fols round 'em, having Loop holes Seniority, and continues in the

ving only a Defence in Front, Men either Horse or Foot, comfurrounded with a Parapet and manded by a Colonel, Lieutenant-Fofs: both the one and the other Colonel, and Major; each Regiferve for Detached Guards to in- ment of Foot is divided into Comterrupt the Enemies Works. They panies, but the number of Comare sometimes made for the An- panies differs; though in England gles of the Trenches, for covering our Regiments are generally thirthe Work men against the Sallies teen Companies, one of which is of the Garrison. The length of always Grenadiers. Regiments of their Sides may be from ten to Horse are most commonly six twenty fathom; their Parapet, Troops, but some of nine. Drahaving two or three Banquetts, goon-Regiments, are generally in must be about nine or ten foot time of War eight Troops, and in thick, and their Foss the same, time of Peace but fix. Each Reboth in breadth and deepness; giment has a Chaplain; and a Surthey contain a Body of Men for geon. Some German Regiments the Guard of the Trenches, and confift of 2000 Foot, and the Reare likewise called Places of Arms. giment of Piccardy in France of REDUCE a Place, is to oblige 6000, being 120 Companies, at 50

REDUIT, Castle or Donjon, REGULAR-ATTACKS, are is a Place more particularly en- fuch as are made in form, that is,

ly in each of them a high Tower, is that next the Trunions, betwixt from whence the Country round them and the Vent. The reinthe Place may be discovered. forced part of a Gun, is from the REFORM; to reform, is to Base-Ring to the Reinforced-Ring, reduce a Body of Men, by either being much thicker of Metal disbanding the whole, or only than any other part of the Piece,

REINFORCEMENT to an work at fuch a time, fince they do Army, is an Addition of fresh it for the Defence of their Liberty; Troops to strengthen an Army, and so that no Officer ought to think to enable them to go on with an it below him to carry Fascines, Enterprize.

RELAIS, see Ligiere.

Guard, is to put fresh Men upon and some Fourneaus or Fougades the Guard. To relieve the Trenches, made under it, to blow up the is to relieve the Guard of the Enemies Lodgments. Trenches, by fending off those RETRAITE, or Berm, see that have been there upon Duty Ligiere. before.

led or disabled.

two Lines. See Camp.

Besieged obliged to abandon the Watch.

or to throw up Earth to cover himself. The Retirade ought to RELIEVE; to Relieve the be raised as high as possible;

RETREAT, or Tattou, is a REMOUNT; to remount the Beat of the Drum in the evening Cavalry or Dragoons, is to furnish at the firing of a Piece, called the them with Horses in the room of Warning-Piece, at which the Drumthose which have been either kil- Major, with all the Drums of the Battalion, except such as are up-RESERVE, is a Body of on Duty, beats round the Regi-Troops sometimes drawn out of ment; the Drums of the Quarterthe Army, and encamped by them- Guards, of the General's Guards, selves in a Line behind the other and all other small Guards, do likewise beat, the Trumpets at RETIRADE, is a Trench the same time sounding at the with a Parapet. But Retirade or Head of their respective Troops. Coupure, is most ordinarily taken This is to warn the Soldiers to forfor a Retrenchment formed by the bear firing, and the Centries to two Faces of a Re-entring Angle challenge till break of Day, that in the Body of a Place, after the the Reveille is beat. The Refirst Defence is ruined, and the treat is likewise called setting the

Head of the Work, without quit- RETRENCHMENT, is ting it entirely; therefore while any Work raised to cover a Post, forne are making Head to the and fortifie it against an Enemy, Enemy, others ought to be busie such as Fascines loaded with Earth, in making the Retirade, which is Gabions, Barrels of Earth, Sandonly a simple Barricade or Re- bags, and generally all things trenchment thrown up in haste, that can cover the Men, and with a fort of Foss before it; it give a stop to the Enemy. But depends upon the Knowledge of it is more particularly applicable the Engineer to direct, and the Ho- to a Foss bordered with a Parapet ; nour of the Officers and Soldiers to and a Post fortified thus, is called Pola

particular.

tack a Tenaille of the Place which mines. they judge the weakest, either by RETURNS of a Mine, ing Ground; then the Befiegers Mine.

fuch as are made in the Bastions, follow them, take the shortest when the Enemy are Masters of way to repulse the Enemy, and the Breach. They can never be to cut off their Retreat if pofmade but in full Bastions, for in fible. empty or hollow Bastions there REVEILLE, is a Beat of can be made only Retirades. the Drum about break of day, to These particular Retrenchments advertise the Army that it is day are made several ways, according light, and that the Centries forbear to the time they have to cover challenging. themselves; sometimes they are REVERSE, signifies on the

Post retrench'd, or strong Post. Re- tainly the best; as Count Pagan trenchments are either general or who makes a double Parapet in all his Bastions; and a Retrench-General Retrenchments, are new ment made before hand, requires Fortifications made in a Place be- no more Men for its Defence, fieged, for to cover themselves than if it were not made, bewhen the Enemy becomes Masters cause they never defend it till the of a Lodgment on the Fortification, principal Work be loft. The Pathat they may be in a Condition rapets of such Retrenchments ought of disputing the Ground inch by to be 5 or 6 feet thick, and 5 inch, and of putting a stop to the foot high, with a large and deep Enemy's Progress, in expectation Foss, from whence ought to ruti of Relief. As, if the Besieged at- out small Fougades and Counter-

its being ill flanked, or being are the Turnings and Windings commanded by some Neighbour- of the Gallery; see Gallery and

make a great Retrenchment, in- Returns of a Trench, are the closing all that part which they Turnings and Windings which judge in most Danger, as you form the Lines of the Trench, and may fee in the general Plan, areas near as they can be made pa-These ought to be fortified with rallel to the Place attacked, to Bastions and Demi bastions, with shun being enfiladed. These Rea good Foss, and ought to be turns when followed, makealong higher than the Works of the way from the end of the Trench Place, that they may command to the Head, which going the the old Works, and put the Be. streight way is very short, but fiegers to a great trouble in co- then the Men are exposed; yet upvering themselves; they ought on a Sally, the best Men never conlikewise to be Countermined. fider the Danger, but getting Particular Retrenchments, are over the Trench with fuch as will

made before hand, which is cer- back, or behind. So we fay a

Gg 2

Reverse View, a Reverse command- Captains, and Subalterns with Subing Ground, a Reverse Batte- alterns, and command according ry, &cc.

Reverse of a Gun, see Recoile. sions.

of the Army, or part of the Army of Wood of about 9 inches dia-Troops.

neers.

the Angles unequal.

opposite Sides are equal, but all Draught-Hooks.

its four fides are not equal.

Enemies Approaches.

of the same Rank take their turns calls, who comes there, and is anupon Duty; as Captains with swered the Round; then, let him

to the Seniority of their Commis-

REVIEW, is the drawing out ROLLERS, are round pieces in Line of Battel, to be viewed meter, and four foot long, which by the General, that he may serve in moving Mortars from one know the Condition of the place to another when it is near, by raising the fore part of the Bed RHILAND-ROD, is a so high that one of these Rollers Measure of two fathom or twelve may be laid under it, then pushfoot, used by the Dutch Engi- ing the Bed forwards, and laying another in its way, and another RHOMB, is a four fided Fi- before that, and so on: Thus the gure, whose Sides are equal, but Mortar is with little trouble brought to another place.

RHOMBOIDE, is a four ROPE; for Gin-Rope, see fided Figure, whose Angles and Gin; and for Draught-Ropes, see

ROUND, is a Night Watch RIDEAU, is a Rising Ground commanded by an Officer that goes or Eminence commanding a Plain, round the Rampart of a Garrison, which is sometimes near parallel to listen if any thing be stirring to the Works of a Place. It without the Works, to fee that is a great Disadvantage to have the Centries be watchful and dili-Rideaus near a Fortification, espe- gent upon their Duty, and that cially when they shoot from far, every thing be in order; In strict and terminate on the Counterscarp; Garrisons, the Rounds go every for they not only command the quarter of an hour, that the Place, but likewise facilitate the Rampart may still be furnished: The Centries ought to challenge at Rideau, is likewise a Trench co. a distance, and are to rest their vered with Earth, in form of a Arms as the Round passes, letting Parapet to cover the Soldiers. no Man come near them. When ROLL; Muster-Roll, is a the Round is near the Corps de scroll of Parchment, which each Garde, the Centry calls aloud, Captain gives the Muster-Master, Who comes there; when it is anon which are writ the Names of Swered, the Round; he says stand, the Soldiers of his Company. and calls for the Corporal of the To roll in Duty, is when Officers Guard, who drawing his Sword

who has the Word advance. The try of a Place protected, to Corporal receives the Word with hinder Soldiers which straggle off his Sword drawn, and pointed at from the Army, from committing the Heart of him who gives it. any Disorder. When the Major goes the Round, SAKER, is a Piece of Ordthe Officers of the Guard receive nance, carrying a Ball of 5 pound him with two Musqueteers, and and a quarter weight; the diagive him the Word only once, meter of the Bore is 3 inches and which is when he goes his Round- 9 fixteenths of an inch; the Major. When the Governour goes length of the Gun about 8 or 9 his Round, the Officers draw out foot; it is a very good Field the Guard without Arms, and Piece, and is always a part of the fend four Musqueteers to receive marching Artillery. him at ten Paces distance, and SALLY, is when the Befiegive him the Word as often as he ged march out a part of the Garripleases to demand it: All other son in the night time, to attack Rounds, without exception, are the Besiegers in their Works, to obliged to give the Word to the nail their Guns, and to hinder Corporal of the Guard.

fometimes 5, and fometimes 7 Works. times, according to the Nature of the Offence.

ction granted by a Prince or his King or his General, the Drums

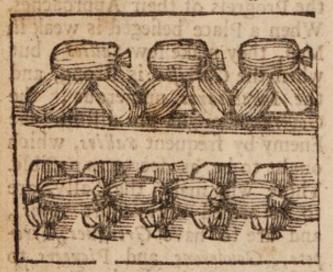
the Progress of their Approaches. To RUN the Gauntlet, is a pu- When a Place besieged is weak in nishment for considerable Offences; Men, they make few Sallies; but when a Soldier is sentenced to run when the Garrison is strong, and the Gauntlet, the Regiment is the Inhabitants numerous, the drawn out and make a Lane, Governour ought to disturb the each Soldier having a Switch in Enemy by frequent Sallies, which his hand; the Criminal's Shoul- ought to be as secret as possible. ders and Back are naked, and as Those who make the Sally, are he runs along, every one has a to be armed with short Arms, stroak at him; while he runs, and are to have Grenades, Firethe Drums beat at each end of the pots, Gouderons and Pioneers to Lane; sometimes he runs 3 times, destroy and level the Enemies

To SALUTE a Brince or Perfon of extraordinary Quality at his coming into a Garrison, is the firing of the Cannon round the Place: likewise in the Field when SAFE-GUARD, is a Prote- a Regiment is to be viewed by a General to some of the Enemies beat a March as he approaches, Lands, to preserve 'em from being and the Officers salute one after plunder'd. It fignifies likewise a another as he passes by, stepping Trooper who stays at the en- back with the right Foot and

Gg 3

Hand,

and afterwards recovering them vals which are left betwixt them. Colours near the Ground directly fieged have opposed to hinder the quets charg'd.



taining about a cubical foot of Having by this means obliged the what is beaten down; they are Wool-packs, or Sand-bags, make their Approaches, because they giously they can, from the Fire can be easily brought from far of the opposite Bastion. off, and removed at will. The SARRAZINE, is the same smaller Sand-bags hold about half with Herse or Portcullis, see a cubical foot of Earth, and serve Herfe. to be placed upon the Superior SAUCISSE, is a long train of Talus of the Parapet, to cover Powder sewed up in a Roll of

Hand, and bowing the spears of those that are behind, who fire their Half Pikes to the Ground, through the Embrasures or Inter-

gently, and bringing up the Foot SAP, is the digging deep unand Hand and planting them. der the Earth, in finking lower As foon as they have faluted, by degrees, to pass under the they are to pull off their Hats Glacis, and open a way to come without bowing, but standing under Cover to the Passage of the upright. The Enfigns falute all Moat. After they have overcome together, bringing down their all the Obstacles which the Bebefore them at one Motion, and Advancement of their Approaches, having taken them up again gent- and that notwithstanding their ly, life their Hats. If it be a Re- frequent Sallies, they are at last view of the Army, every Battalion got near the Foot of the Glacis, is to falute with Pikes and Mus- the Trench is carried directly forwards, the Work-men covering SAND-BAGS, are Bags con- themselves the best way they can, with Blinds, Woolpacks, Sandbags, or Mantelets upon Wheels; when they are got to the Foot of the Glack, they make Epaulments or Traverses on each fide to lodge a good Body of Men. Sap is made five or fix fathom from the Salliant Angle of the Glacis, where the Men are only cover'd fide ways, wherefore they lay Planks over head, with Hurdles and Earth above them. Earth; they are used for raising Enemy to quit the Covert-Way, Parapets in haste, or to repair the Pioneers, with Mantelets; of use when the Ground is rocky, immediately a Lodgment, coverand affords no Earth to carry on ing themselves the most advanta-

pitch'd

pitch'd Cloath, of about two in- without, confidering its Situaches diameter; the use of it is to tion, the Form of its Walls, the fire Mines, or Caiffons; the length Number and Figure of its Steeples, of it must reach from the Mine and the Tops of its Buildings, to the place where the Engineer is both Publick and Private. to fire it, to fpring the Mine.

or Fascines, used in covering of along it, that a Musquet-Ball Men, or making Epaulments. entring at one end, may fly to They differ from the ordinary Fa- the other, leaving no place of Sescines, because they are made of curity. thicker Wood or Branches of SCOURER or Rammer, is Trees, and tied at both ends that wherewith a Soldier rams and in the middle, and are about down the Powder and Ball into a foot and a half or two foot his Piece. thick, and four foot long. They SENIORITY, is the diffeare good to stop Passages, and rence of time betwixt the raising being mixed with Earth and Fa- of two Regiments, whereby the scines to make Traverses over a one is said to be so much Senior wet Ditch.

furious Attack upon a Wall or The difference of time betwixt Rampart, contrary to Form, and the Date of two Commissions makes with no Precaution, carried on the one Senior to the other; and with Ladders, to infult the Wall all Officers of the same Rank,

by open Force.

SCALE, is a right Line di- missions. vided into equal Parts, repre- SENTINEL, see Centinel. its true Length.

likewise called Profile or View, is Post on a March is on the Flanks, Place, such as it appears to us, good Order. A Serjeant of each

To SCOUR a Line, is to SAUCISSONS, are Faggots flank it so as to see directly

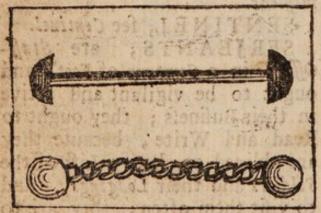
than the other; all Regiments STALADE, or Escalade, is a take place according to Seniority. roll by the Seniority of their Com-

fenting Miles, Fathoms, Paces, SERJEANTS, are Staff-Feet, Inches, or any other Mea- Officers in a Company of Foot, and fure; it is used in making Plans ought to be vigilant and active upon Paper, in giving each Line in their Business; they ought to Read and Write, because they SCALENE, see Triangle. are obliged to keep a List of the SCARP, or Escarpe, is the Soldiers and their Lodgings, and Interior Talus or Slope of the Ditch to visit them often; they are to next the Place, at the Foot of the teach the Company the Exercise of Rampart or Ligiere. their Arms, and how they are to SCHENOGRAPHY, which is keep their Ranks and Files; their the natural Representation of a to cause the Company to march in when we look upon it, from Company is to be on the Parade

at night, to receive the Orders SHOVEL, is an Instrument and the Word from the Adjutant, carried along with an Artillery, which he is to carry to his Cap- to be delivered out to the Pioneers tains and Subalterns: When the who are to mend the Ways, or Adjutant comes, the Serjeants to work in the Approaches; it place themselves in a Ring with serves to gather and throw up him, according to the precedency the Earth which the Pick-ax and of their Companies, with their Mattock raise; it is made of a Hats on the Spears of their Hal- Shaft of about three foot and a bards; and after he has given halflong; the Head of it which them the Orders, he whispers the is thin and shod with Iron, is Word to the first Serjeant, who about fifteen inches deep, and gives it to the next, and fo on, eight broad. till it come to the youngest, who SHOULDER of a Bastion, gives it to the Adjutant. They ac- is where the Face and the Flank quaint the Officers that are to go meet. next upon Duty; they visit the SIDES of Horn-works, Te-Mens Arms, and distribute Am- nailles, Crown-works, &c. munition to them.

bers.

ther for Cannon, or for Musquets, and Tenails are parallel; some-Carabines and Piftols, fee Ball.



them some liberty asunder, so with a Design to take it. When that they cut and destroy what a General designs to besiege a ever happens in their way, and Place, he must first order it to be rel, to cut the Enemies Sails. der the Command of a Lieute-

those parts of their Ramparts SHAFTS of Limbers, fee Lim- which reach from the Border of the Fols of the Place, to the Head SHOT; all forts of Ball, ei- of the Work, which in Horn-works times these Sides are no longer Chain-Shot, is two whole or half than the reach of a Musquet-Shot, and are then defended from the Faces of the Place; but when they are longer, they have either Flanks made in the long Sides, which are then faid to have Shoulders; or elfe they are indented or made with Redans, or with Traverses or cross Entrenchments in the Ditch.

SIEGE, is the Encampment of Bullets joined together, either by a an Army entrenched and fortified Bar or Chain of Iron, which allows round a place which is attacked, are very serviceable in a Sea Bat- invested by a Body of Horse, un-

mans-

nant-General, to hinder any Suc- Orders what they are to do : He of Circumvallation is without the Accidents of War. Camp to hinder Succours. The To make or form a Siege, there must Line of Contrevallation, is that be an Army sufficient to furnish five betwixt the Army and the Place, or fix Reliefs for the Trenches, which covers the Besiegers from Pioneers, Guards, Convoys, Escerts, the Sallies of the Garrison. When and what else may happen: An the General has disposed his Artillery with Magazines furnished Camps, placed his Guards, as well with a fufficient quantity of Wartowards the Place, as towards like Ammunition, and Provisions the Country, and established the of all forts: And an Hospital with Lieutenant-Generals to command Physicians, Chirurgeons, &c. and in the particular Quarters, with Med'cines of all forts.

cours getting into the Place, till goes with the Engineers to view the rest of the Army arrive. The the Place, and orders the Attack method of encamping, is quite in the Place he judges the weakotherwise in a Siege than in a est; but because it is difficult to March; for in a Siege the Army find two places situated after the environs the Place that? nothing same manner, so it is hard to may enter, and lies without Can- make two Sieges after the fame non-Shot of the Town. If the way; for there are some Towns, Place be fituated on a River, a where without opening or carry-Detachment is made of a part of ing on of Trenches, the Besiegers the Army to the other fide; and come at once and lodge themthere are Bridges of Communica- felves on the Counterscarp, by the tion made both above and below help of some Hollow Ways, the Town, with Redoubts guard- Ruins or Cavities, or by some ill ed by a Body of Foot to secure fortified Suburbs. And there are them. If the Place be environ'd others, where the Ground is betwith Mountains, they possess all ter managed, where within Canthe Heights from whence they non-Shot of the Out-Works, there can any way annoy the Enemy. is nothing which can facilitate At a Siege the Army encamps the Enemies Approaches. To fuch with their Backs to the Place; fort of places, which are not the Battalions and Squadrons inter- worst, there must be Trenches lin'd. The Engineers trace the and Approaches to gain the Ground Lines of Circumvallation and Con- foot by foot, which renders such trevallation, with Redoubts and Sieges dangerous and very long, Angles, at convenient distances, because of many Accidents which and every Regiment works at the happen daily in the Attacks, Place appointed them. The Line Sallies, and Mines, and other

attacking a Place, in abandoning Battalions in three Sixains. the Works, and levelling the SKIRMISH, a fudden En-Works or Posts which they were counter between two small Boin possession of before the place. dies of Men, without Order.

getting into it, with a Design to a Trooper.

take it by Famine.

and Bruges in Flanders, are both fix or eight. fortified this way. The Word To SPIN Hay is to twift it Envelope.

SINGLE Tenaille, see Te- he can behind him.

the Van; the first and fixth fall Centre, and make the Wheel. to the Rear, leaving the third SPUNGE of a Gun, is a long Each Battalion ought to have a which is covered over with a this Order; fo 12 Battalions may while another claps his Finger

Toraise a Siege, is to give over be put in two Sixains, and 18

To turn a Siege into a Blockade, SOLDIER, is he who is listis to give over the Attacks, and ed in the Service, and receives to possess themselves of all the Pay; he who serves on Foot, Avenues leading to the Place, to is commonly called a Soldier; hinder any Succours or Convoys and he who ferves on Horfe-back,

SOUND, see Trumpet.

SILLON, is a Work raised SPADE, is an Instrument for in the middle of a Foss, to de-digging up the Ground; the fend it when it is too wide: It Handle or Shaft is about three has no particular Form, some-foot long; the Head of it is all times being made with little Ba- of Iron, the upper part being stions, Half-Moons, and Redans, flat for the Pioneer to fet his Foot which are lower than the Works on to force it into the Ground; of the Place, but higher than the the length of the Head is a foot Covert-Way. The Towns of Doway or fifteen inches, and the breadth

Sillon, is wearing out of Use, it up in Ropes very hard for an being now called Envelope. See Expedition in the Winter time; each Trooper carrying as much as

SPOKES of a Wheel of a Can-SIXAIN, an antient Order of non, are those short pieces of Battel for fix Battalions, which, Wood, being twelve in number; supposing them all in a Line, which by having one end fixed in is formed thus. The second and the Fellows, and the other in the fifth Battalions advance and make Nave, keep the Nave in the

and fourth to form the Body. Staff put into a roll of Wood, Squadron on its Right, and an- Sheep-skin, the Wool outwards, other on its Left. Any number to spunge and clean the Gun. of Battalions produced of the As soon as the Gun has fired, a number fix, may be drawn up by Matrofs is ready with the Spunge, On the Vent to stop the Air, and number of Men in Rank or File. twixt the Wheels.

and 30 paces Interval between one ber of Men in each Rank. Squadron and another; on a March Hollow Square, is a Body of Foot the Squadrons of the same Co- drawn up with an empty space distance.

posed of four equal Sides, and to oppose the Horse.

four right Angles.

Long Square, is a Figure com- Officer. posed of four Sides, whereof the STANDARD, is a piece of

stifle what Fire may remain in or when the number of Men in the Chamber. The Spunge, Ram- each File, is equal to the number mer, and Ladle, after the Gun is of Men in each Rank. Square loaded, are laid under her be- Battalion of Ground, is when the Ground of the Flanks is of the SQUADRON, is a small Body same Extent, as the Ground of of Horse, composed of 3 Troops, the Front and Rear. To make a each 50 Troopers, making 150, square Battalion of Men, whose and sometimes 200, when the number is known, as 50, take the Troops are larger, but never above nearest Radix or square Root, that; because a greater number which is seven, for the number of can never be advantagiously post- Men in Rank and File. To make ed, nor have room to act in nar- a square Battalion of Ground, the row Grounds, as Woods, Marshes, number being likewise determin'd. and Defiles. The eldest Troop takes as 60, Maneson Mallet says that always the Right of the Squadron; Number must be multiplied by 3, the second the Left, and the which is the number of feet that youngest the Centre. A squa- every Man takes in Front, and the dron is always drawn up three Product 180 divided by 7, deep, that is to fay, in three which is the number of feet that Ranks; having the length of a each Man taketh up in deepnels. Horse, or rather more between or the distance of the Ranks; the Rank and Rank. The Standard is Quotient is 25; the square Root always in the Centre of the first of which is 5, which is the num-Rank. When the Army is en- ber of Men in each File; and if camped, a Squadron of Horse is by this Radix 5, you divide 60, allowed 30 Paces for their Front, the Quotient is 12 for the num-

lumn ought to keep a convenient in the middle for the Colours, Drums and Baggage, facing, and SQUARE, is a Figure com- covered by the Pikes every way.

STAFF-OFFICER, fee

two opposite are equal, and all Silk or Damask, about a foot the Angles Right Angles. and a half Iquare; on which is Square Battalion of Men, is that embroidered, the Arms, Device, which is composed of an equal or Cypher of the Prince, or of the Colonel

of about 8 or 9 foot long, and ments, Tents, Bread, &c. are to carried in the Centre of the first be paid; it is likewise the Mo-Rank of the Squadron; in Rainy or ney paid the Officers upon Acbad weather, it has a Case of compt, till their Accompts be

out of use, both because their Re- their Arrears, which fignifies the entring Angle is not well flanked, Money they were behind. and because the square Redoubts Sub-divisions, are the lesser Parare sooner raised, and equal- cels, into which a Regiment is dily ferviceable. They were made vided in marching, being half the with Salliant and Reentring An- greater Divisions. gles, and had from five to eight SUCCOUR, is the Enter-Points; and each of their Sides prize made to relieve a Place, or Faces was from 12 to 25 fa- that is, to raise the Siege, and thom long.

STORM, see Asfault.

of Iron fix in number, fixed with Breadth, but no Thickness: It is large Nails, called Straik-Nails, evident, that the Extremities of on the Circumference of a a Can- a Surface are Lines. non Wheel, over the Joints of the Surface, as a Term in Fortifica-

Officers

SLIB-BRIGADEER, is a Post Exterior Side.

der a Brigadeer.

Regiments of Fuseleers where in the Rear of each Regiment. there are no Enfigns, having a and about the Generals Quarters; Commission as youngest Lieute- their Beer, Wine, Bread, &c. mant, and Pay only as Enfign; they either buy from the Boors, but takes place of all Enfigns, or fetch from the nearest Towns. except the Guards.

to the Soldiers weekly, not Tenaille, in that its Sides are not

Colonel: It is fixed on a Launce cause their Cloaths, Acoutre-Leather over it to preserve it. made up, which is generally once STAR-REDOLIBTS are now a year, and then they are paid

force the Enemy from it.

SURFACE or Superficies, is STRAIKS, are strong Plates an Extent, having Length and

Fellows, both to strengthen the tion, is that part of the Exterior Wheel, and to fave the Fellows Side, which is terminated by the from wearing out on hard Ways Flank prolong'd or extended. and the Angle of the nearest Ba-SHBALTERN-OFFICERS, see stion. The Double of this Line with the Curtin, is equal to the

in the Troops of Guards, next un- SUTLER, is he who follows the Army to fell all forts of Pro-Sub Lieutenant, is an Officer in visions to the Troops. They pitch

SWALLOWS-TAIL, is an Out-Subsistance, is the Money paid Work differing only from a single amounting to their full Pay, be- parallel, like those of a Tenaille;

but

but if prolong'd, would meet not good, the Talus must be and form an Angle on the middle large, that it may keep it up the is composed of two Faces forming good to support the Earth with a the opposite Bastions.

T.

TAIL of the Trenches, or Open- Buttresses.

Opening of the Trenches.

ought to have a Slope or Talus on file. Superior Talus. See Profile.

ven to a Work, one the fide to- level. wards the Country, and ought Tarpaulins, are pitched Cloths, to be as small as possible, that the with which the Decks of Ships Enemy may not find it easie to where there are Stores are cobe mounted, either by Scalade or vered, to fave them from Rain;

of the Curtin; its Head or Front better. In such a case it were a Re entring Angle. This Work Wall, which the French call Chemise, is extraordinary well flanked and when it is not thick, and otherdefended by the Works of the wife Revetement, which signifies Place, which discover all the cloathing or fencing, to make Length of its long Sides. But the Earth last longer, and to saye their great Fault is their not co- the making too large a Talus. vering sufficiently the Flanks of This Wall ought to have a small Talus of a fifth or fixth part of its height, and for a Reinforcement it is generally supported in the infide by Counter-forts, or a fort of

ing of the Trenches, is the Post Interior Talus, is the Slope of where the Besiegers begin to break the inside of the Work next the Ground to cover themselves from Town, which is much larger the Fire of the Place, in advan- than that of the outfide; and has cing the Lines of Approach; fee at the Angles of the Gorge, and sometimes in the middle of the TALUS or Epatement, is the Curtin, Ramps, or sloping Roads, Slope given to the Rampart or to mount upon the Terre-plein of Wall, that it may stand the the Rampart. The Interior Talus faster, and is more or less accor- of the Parapet, ought to be very ding as the Earth is loofer or small, that the Men may with more binding. All Ramparts more ease fire over it. See Pro-

each side; that is, they ought to be Superior Talus of the Parapet, broader at the Basis, than at the is the Slope on the top of the Top: the one is called the Exte- Parapet, marked 13, 12, in the rior Talus, the other the Interior Figure at Profile. This Slope al-Talus. And there is likewise a lows the Soldiers to defend the Covert Way with small Shot, Exterior Talus, is the Slope gi- which they could not do were it

otherwise. But if the Earth be or to throw over Stores in open

Boats.

Magazines.

TATTOII, see Retreat.

for the pieces of Earth left stand- enough to make Horn works. The ing as Marks or Witnesses, in the Ramparts, Parapets, Fosses, Covert-Fosses of Places they are em- Way, and Glacis of Tenailles, are ptying, to the end they may the same with other Out Works. been carried away, thereby to the middle of the Foss, and is of ways fure to leave some of the seen in the Foss of the Cittadel, highest spots of Ground for Te- in the Grand Plan. The first is measure. But the Engineers are and two Faces. The Rampart of generally careful to mark out the Curtin, including the Parapet indifferent Places, some high, and Talus, is but five fathom thick, some low, to measure as exact as but the Rampart of the Flanks and they can.

likewise Tenailles in the Foss.

Front is advanced towards the the last, only in having its Ram-Country, having two Faces form part parallel to the Curtin of the ing a Re entring Angle; its two Place. All these forts are very long Sides terminate on the Coun- good Defences for the Foss, and terscarp, opposite to the Angle of lye so low, that they cannot be the Shoulder.

Double Tenaille, is a Work whose it be on the Covert-Way. two Re entring, and three Salli- a Place, is what is comprehended on the Counterscarp, opposite to the Flanks, and the Curtin. So have this fault, that they are not when they made two Attacks on flanked or defended at the Re- the Faces of the two Bastions. entring Angle, because the heighth

Boats, or upon Battery, or in of the Parapet hinders the Soldiers from discovering before that Angle. Therefore Tenailles are only TEMOINS, is a French Term made when there is not time

know exactly, how many cubical Tenaille in the Fofs, is a low fathoms or feet of Earth has Work raised before the Curtin in pay the Work-men. who are al- three different forts, as may be moins, to have more deepness to composed of a Curtin, two Flanks, Faces is seven. The second, which TENAILLE, is an Out- Vauban has by Experience found Work longer than broad, whose to be of a very good Defence, long Sides are parallel; and is ei- is composed only of two Faces, ther fingle or double. There are made on the Lines of Defence, whose Rampart and Faces are pa-Single Tenaille, is a Work whose rallel. The third differs from hurt by the Befiegers Cannon, till

Front having four Faces, forms Tenaille of a Place, or Front of ant Angles; its long Sides are between the Points of two Neighlikewife parallel, and terminate bouring Bastions, as the Faces, the Angle of the Shoulder. Both it is faid, The Enemy attacked the fingle and double Tenailles the whole Tenaille of a Place,

TENT,

TENT, is a fort of Pavilion with the more Violence. Tompion pulled down when the Army to keep out the Rain. moves; it serves to keep an Offi- TOUCH-HOLE or Vent, is Tents do the Soldiers.

go and come; it is likewise led the Vent. the Passage of the Rounds. Trees TOWN-MAJOR, see Ma. on the Terre-plein of a Rampart, jor. ferve to bind it, but in a Siege the Approaches.

To TERTIATE a Piece, is Iron. See Carriage. to examine it, whether it has the TRAPEZE, a four fided due thickness of Metal in every Figure, having only two of its place, and whether it be true four Sides parallel. bored.

Barrels.

by the French Engineers in all their rallel. Fortifications, and is fix foot; a

Wood or Cork, which is used in sometimes it is covered over head loading a Mortar; it is exactly with Planks, and loaded with fitted for the mouth of the Cham. Farth. They are very advanta-

of Cloth which is pitched upon is likewise a stopple of Wood for Poles, with Cords and Pegs, and the mouth of the Mortar or Gun,

cer under Cover, as the small the small Hole at the end of the Cylinder of a Gun or Musquet, by TERRE-PLEIN of a Rampart, which the Fire is conveyed to the is the Horizontal Superficies of the Powder in the Chamber. In a Fire-Rampart, between the Interior Ta- lock, Carabine, or Piftol, it is callus and the Banquett; 'tis on the led the Touch-hole, but in a Piece of Terre-plein, that the Defendants Cannon it is more properly cal-

TRANSUM, is a piece of they are inconvenient; for the Wood which goes across betwixt noise made by the Wind amongst the Cheeks of a Gun-Carriage, or the Leaves, hinders the Besieged of a Gin, to keep them fixed tofrom hearing the Work-men in gether; each Transum in a Carriage is strengthened by a Bolt of

TRAPEZOIDE, is a Fi-THUNDERING-BARRELS, see gure of four Sides, all unequal, and whose Angles are likewise un-TOISE, is a Measure used equal, and none of its Sides pa-

TRAVERSE, is a Trench square Toise is 36 square feet, and with a little Parapet, sometimes a cubical Toile is 216 cubical two, one on each fide; to ferve as a cover from the Enemy that TOMPION, is a stopple of might come on their Flank: ber, and is drove hard in after gious in stopping an Enemies the Powder, and the Bomb is placed Way, and to prevent being enfiabove it; it serves by confining laded. They are likewise a good the Powder, to make it burst out Defence in a dry Foss, in making

opposite Flank.

by throwing into the Fofs over Trench to five foot deep, and two use it.

ject.

the Parapet on the side next the and the Engineer is to demand only Provision of Spades, Shovels, Traverse in a wet Foss, is made and Pickaxes, to enlarge the against the place where the Miner fathoms wide. The greatest Fault is to be put to the Foot of the a Trench can have, is to be enfi-Wall, abundance of Saucissons, laded; to prevent which they Forsts, and other pieces of Wood, are ordinarily carried on with with Fascines, Stones, Earth, and Turnings and Elbows. As the all other things which can help to Trenches are never carried on but fill up the Fols, and be capable in the night time, therefore the of carrying a Gallery for such as Ground ought to be viewed and observed very nicely in the day. Traverse is likewise a Wall of On the Angles or Sides of the Earth or Stone cross a Work Trench, there ought to be Lodgwhich is commanded, to cover ments or Epaulments in form of the Men; as at Coehorne's Work Traverses, the better to hinder the at Namure, which lies on the side Sallies of the Garrison, to favour of a high Ground, and is open the Advancement of the Trenches, to the other fide the Sambre; and to sustain the Work-men. there are two high Traverses cross These Lodgments are small Trenches the Work one behind another. fronting the Place befieged, and To Traverse a Gun or Mortar, is joining the Trench at one end. to bring her about with Hand- The Platforms for the Batteries fpikes to the Right or Left, till are made behind the Trenches, The is pointed exactly at the ob- the first at a good distance, to be used only against Sallies of the Trench, which is likewise called Garrison; as the Approaches ad-Lines of Approach, and Lines of At- vance, the Batteries are brought tack, is a way hollowed in the nearer, to ruin the Defences of the Earth, in form of a Fofs, having Place, and dismount the Artillery a Parapet towards the place be- of the besieged: The Batteries for fieged, when the Earth can be re- the Breaches, are made when the moved; or else it is an Elevation Trenches are advanc'd near the of Fascines, Gabions, Wool-packs, Covert-Way. If there be two Atand such other things that can tacks, there must be Lines of Comcover the Men, and that does not munication or Boyaus between the fly in pieces or splinters to hurt two, with Places of Arms], at them: This is to be done when convenient distances. The Trenches the Ground is rocky, but when ought to be fix or seven foot high the Earth is good, the Trench is with the Parapet, which ought carried on with less trouble; to be five foot thick, and have

have Banquetts for the Soldiers to cutting one another on the Sur-

mount upon.

bows and Turnings which form dered according to the Sides, made as near as can be parallel to sceles, or scalene; and confidered the Defences of the Place, to according to its Angles, may be prevent their being enfiladed. either Rectangle, Ambligon, or

To mount the Trenches, is to Oxigon. nail their Cannon,

consequently have their Parapet are all Acute. Possession.

comprehended betwixt 3 Sides, and sometimes nine. and is either Rectilineal or Sphe- Troop; to Beat the Troop, is the rical. A Rectilineal or plain Tri- same with Assembly; see Assembly. angle, is a Figure confisting of 3 TROOPER, is a private Straight Sides. A Spherical Triangle, Man in a Troop of Horse. is a Figure formed by three TRUCKS, are small Wheels

face of a Sphere. Returns of a Trench, are the El- A Restilineal Triangle, consithe Lines of Approach, and are may be either Equilateral, Iso-

mount Guard in the Trenches. To Triangle Equilateral, is what relieve the Trenches, is to relieve has the three Sides equal; it is the Guards of the Trenches. To evident, the three Angles must dismount the Trenches, is to come likewise be equal, each being fixty off the Guard of the Trenches. To Degrees. Triangle Hosceles, 18 cleanse or scour the Trenches, is to what hath two Sides equal; make a vigorous Sally upon the whence it follows, that all Equi-Guard of the Trenches; to force lateral Triangles are Isosceles; tho' them to give way and quit their all Isosceles Triangles are not Equi-Ground, to drive away the lateral. Triangle Scalene, is what Work-men, break down the Pa- hath three unequal Sides. Trirapet, fill up the Trench, and to angle Rectangle, is what hath one Right Angle. Triangle Ambligon, Counter-Trenches, are Trenches is what hath one Obtuse Angle. made against the Besiegers, which Triangle Oxigon, is whose Angles

turned against the Enemies Ap- TROOP of Horse or Dragoons, proaches, and are enfiladed from is a small Body of about 50 or several parts of the Place, on 60; sometimes more, sometimes purpose to render them useless to less; commanded by a Captain. the Enemy, if they chance to be Each Troop has, besides a Captain, Masters of them; but they ought a Lieutenant, Cornet, Quarternot to be enfiladed or commanded Master, and three Corporals who by any Height in the Enemies are the lowest Officers in a Troop. A Regiment of Light Horse in TRIANGLE, is a Figure England, consists of fix Troops,

Arches, of three great Circles, of one piece of Wood, about a Hh toot

meter, used for Sea Carriages, Frise. and likewise for the Truck-Carriages by Land, and sometimes

for Garrison Guns.

ment of Wind Musick, used in part of the Army which marches publick Rejoicings, but especially in the Front. See Guard. in the War; each Troop of Horse VEDETTE, is a Centry on has two Trumpets. It is made of Horse-back, or a Trooper upon a Metal, most commonly of Brass, Centry Post. His Horse Head is but sometimes of Silver. The towards the Place from whence Mouth of the Trumpet is always any Danger is feared, and his of Brass, and is to take out and Carabine is advanced with the the Trumpet, is called the Trum- when the Army lies encamped, a March, is to Boot and Saddle, rity. at which the Troopers get them- VENT or Touch-hole, fee felves ready to mount; this is Touch-hole. founded when the Drums beat the To VIEW a Place in order to

with the lowermost side of the lery.

Chace of the Gun. Trunion-Ring, is that Ornament is to get as near their Camp as or Jutting out a little before the possible, to see the Nature of

Trunions.

foot and a half or two foot dia- TURNPIKE, see Chevanx de

TRUMPET, is an Instru- VAN, or Van-Guard, is that

in at Pleasure. He who blows Butt End against his right Thigh; peter, who ought to be a Man fit there are Vedettes posted at all for Fatigue and Vigilant. The Avenues, and on all Rifing first Sound of the Trumpet before Grounds, to watch for its Secu-

General. When the Assembly is besiege it, which the French call beat, then the Trumpet found to Reconnoitre, is when the General Horse, and they all mount; the accompanied by the Engineers third is to March. The Trumpets rides round the Place, observing likewise sound a Charge in day of the Situation of it, with the Na-Battel, and the Retreat at night. ture of the Country about it; as TRUNIONS of a Gue, are Hills, Valleys, Rivers, Marshes, the two pieces of Metal sticking Woods, Hedges, &c. thereby to out on the fides of a Biece, by judge of the most convenient which it swings in its Carriage, place for opening the Trenches, They are generally the diameter and carrying on the Approaches; of the Ball of the Piece in length, to find out proper places for enand their diameter is the same camping the Army, for the Lines with the diameter of the Ball. of Circumvallation and Contreval-The Axis of the Trunions, is equal lation, and for the Park of Artil-To View or Reconnoitre an Enemy,

the

the Ground, and the Avenues to Landlords make an Agreement fo it, to find out the Strength and these things, and allow Money in Weakness of their Encampment, lieu of 'em. where they may be best attacked, utensils, are likewise all sorts of to regulate the Motions of the Hand-spike, Priming-Iron, &c. Army accordingly.

To View or Reconnoitre, is likewise when the Quarter-Master-General, with a strong Party of WADD, is a Stopper of Hay Horse, goes to view the Ways for or Straw forced into a Gun upon the March of the Army, and to the Powder, to keep it close in the find the most convenient place for Chamber; when it is home at the an Encampment, to wit where Powder, the Gunner gives it genethere is Water and Forage, where rally three thumps with the Ramthe Army may not be too much mer Head. exposed to the Insults of the Ene- WAD-HOOK or Worm, is a my, but covered by Rivers, small Iron turned Serpent-wife Marshes, or ffrong Grounds, where like a Screw, and put upon the

fors of Quality, who of their own be unloaded. accord, either for the Service of WAGGONS, fee Baggagetheir Prince, or out of the Esteem Waggons. they have for the General, serve Waggon-Master-General, is he in the Army, without being en- who has the ordering and marchgaged to any Captain; but up- ing of the Baggage of the Army. on their own Expence are ready On a day of March, he meets upon all Occasions to gain Ho- the Baggage at the Place appointnour and Preferment, by expo ed in the Orders, and marshals it

faries which are to be furnished belongs to, and marches it acby a Landlord to the Soldiers quar- cording to the Route given him, ter'd upon him, such as Beds, which is sometimes in one Co-Sheets, Pots, Dishes, Spoons, Cups, lumn, sometimes in two; some.

or whether it be proper to ha- Hand-Tools used in an Army or at zard bringing them to Action. a Siege, such as Spades, Shovels, Parties of Horse, are generally sent Pick axes, Hatchets, Bills, &c. out to view the Enemies March, or the Instruments used about a to know whether it tends, there- Gun, as the Ladle, Rammer, by to guess at their Designs, and Spunge, Wad book, Linstock, Coins,

#### W.

they cannot eafily be forced. end of a long Staff, to draw out VOLUNTEERS, are Per- the Wad of a Gun when the is to

fing themselves in the Service. according to the Rank of the UTENSILS, are the Neces- Brigade or Regiment each Waggon Fire, Candle, &c. Sometimes the times after the Artillery, and

Column.

Setting the Watch.

Othcer.

make a Mine.

WHEEL, is a Word of Com. ner. mand, when a Battalion is to al- WHEEL-BARROW, is one of ter their Front, either one way the most necessary Utensils about or other. When a Battalion is to a Fortification, for rolling the Wheel to the Right, every Man Earth from one place to another; moves and wheels from the Left it is so well known, it needs no to the Right, only the Man on Description. See the Figure at the Right Angle turns very flow- Doffer.

sometimes the Baggage of each trary is to be observed. To wheel Column follows their respective by single Ranks, if it be to the Right, the Right Hand Man of WARNING-PIECE, is the each Rank turns on his Heel, Gun which fires every night about while the Left Hand Men move Sun-set, to give Notice to the round, and the whole are form-Drums and Trumpets of the Army, ed into one Rank, fronting as to beat and found the Retreat or their Flank was before. To re-Tattou, which is likewise called duce them into Ranks again, the Left Hand Men turn on their WARRANT OFFICER, see Heels, while the Right Hand Men move round. The Motion WELL, is a Depth funk in of wheeling is of great use, if a the Ground by the Miner, from Battalion be threaten'd with an whence he runs out Branches or Attack upon its Flank, or if there Galleries in fearch of the Ene- be a Design of falling upon the mies Mine to disappoint it, or to Enemies Flanks. Squadrons of Horse wheel after the same man-

ly, being as it were the Hinge on WHEELS of a Gun Carriage, which the rest move. When a which serve for marching the Battalion is commanded to Wheel Gun with more eafe, are two to the Left, the Soldier on the large Circles of Wood composed Left Angle turns flowly, while of the Fellows, the Spoaks, and the Right wheels from the Right the Nave. The Fellows are fix to the Left. When the Word of pieces of Wood, their thickness Command Wheel, is given to a being that of the diameter of the Division of Men upon a March, Ball, their breadth something if it be to the Right, the Right more, forming each an Arch of Hand Man keeps his Ground, fixty Degrees, so that being jointurning only on the Heel, while ed, they make one entire Circle; the Left Hand Man moves about they are joined where their ends quick, till he makes an even Line meet by a peg of Wood, called with the Right Hand Man. If the Duledge, and the Joint is it be Wheel to the Left, the con strengthened on the outside of the VVheel

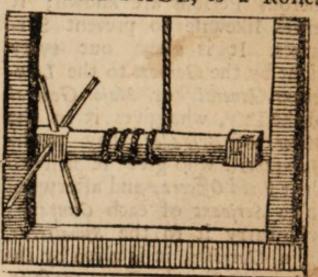
VVheel by a strong plate of Iron, rough, if they were not someone of the Fellows, called the quarter of an inch. Straiks, fixed on it with strong Nails, called the Straik Nails; the Straiks cover the Joints of The Fellows. The Spoaks are twelve in number, being short pieces of VVood let into the inner Circumference of the Fellows, and into the Nave, and appear like fo many Semi-diameters or Rayons; they keep the Nave in the Centre, and ease the Fellows. The Nave is a short thick piece in the Centre of the Wheel, through which the Axletree goes, and is fixed on of VVood square at each end, the other side by a Linspin. The through which is either cross length and diameter of the Nave, Holes for Hand-spikes, or Staves is proportioned to the nature of across, to turn it round; by this the Gun. It is bound with two means it draws a Cord, one end strong Hoops of Iron, called the of which is fastened to some Nave Bands. The two Wheels are weight which it raises up. They one on each end of an Axletree, are used in Gins, and about which keeps them at a fix'd di- Dutch Mortars to help to elevate stance, and upon which the fore them. part of the Carriage is fixed by strong Bands of Iron, called the Army. Axletree-Bands.

which is sometimes opened when called the Wings. the Gate is ordered to be kept VVINTER-QUARTERS, shut. The heighth of it is about ordinarily the Place where Troops three foot and a half, and the are lodged during the VVinter. breadth two.

the difference between the diame- Campaign, and the beginning of ter of the Bore, and the diameter the next. of the Ball; for fince the Ball are

called the Duledge-Plate, and on what less than the Bore, they the Circumference, by a plate of might jamme in the Piece; so the Iron of the length and breadth of Windage of a Demi Culverin is 2

VVINDLACE, is a Roller



VVINGS of an Army, fee

Wings of a Battalion, are the VVICKET, is a finall Door Right and Left Hand Files; when in a Gate of a fortified Place, at a Battalion is drawn up, the Diwhich a Man on Foot may get in, visions on the Right and Left are

It is likewise the time compre-VVINDAGE of a Gun, is hended betwire the end of the

stinction, by which Spies or Trea- Works of the Place; and more parcherous Persons are known; it ticularly all detach'd VVorks, ferves likewise to prevent Sur- are called the Out-Works. their Field Officers, and afterward Arms, and the other for Cannon. to a Serjeant of each Company, who carry it to the Subalterns. In a Garrison, it is given by the Governour after the Gates are shut, YOUNGER Officer; is he to the Town-Major, who gives it whose Gommission is of a later to the Adjutants, and they to the Date. Serieants.

Terms used by Officers in exer- spect of another.

WISCHER, see Nave. cising Bat, alions or Squadrons, or VVITNESSES, see Temoins. when they are upon Action.

VVORD in an Army or Gar- VVORKS; all the Fortification, is a Token or Mark of Di-tions about a Place, are called the

prizes. It is given out every VVORM, is a Screw of Iron night by the General to the Lieu- to be fixed on the end of a Ramtenant-General, or Major-General mer, to pull out the VVad of a of the Day, who gives it to the Firelock, Carabine or Piftol; it is Majors of Brigades, they to the the same with Wad-hook, only the Adjutants, who give it first to one is properer for small Fire-

Younger Regiment, is that which Words of Command, are the is of a shorter standing, in re-

THE

## There will be shortly Publish'd,

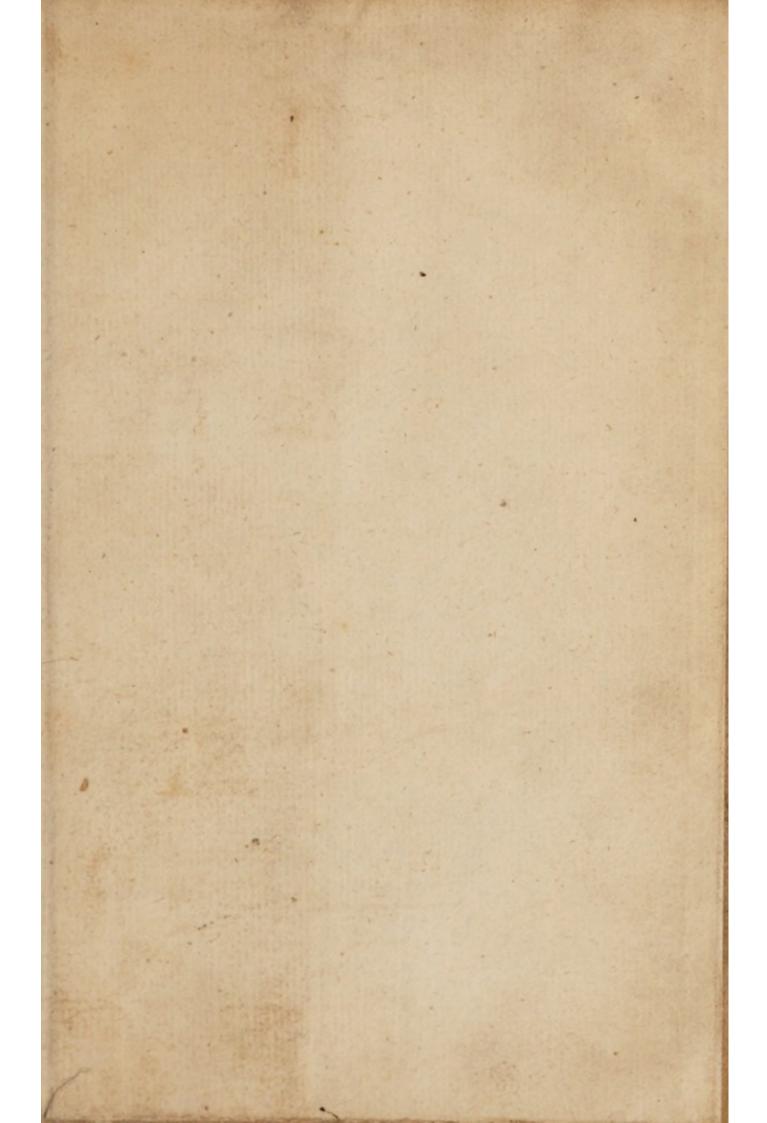
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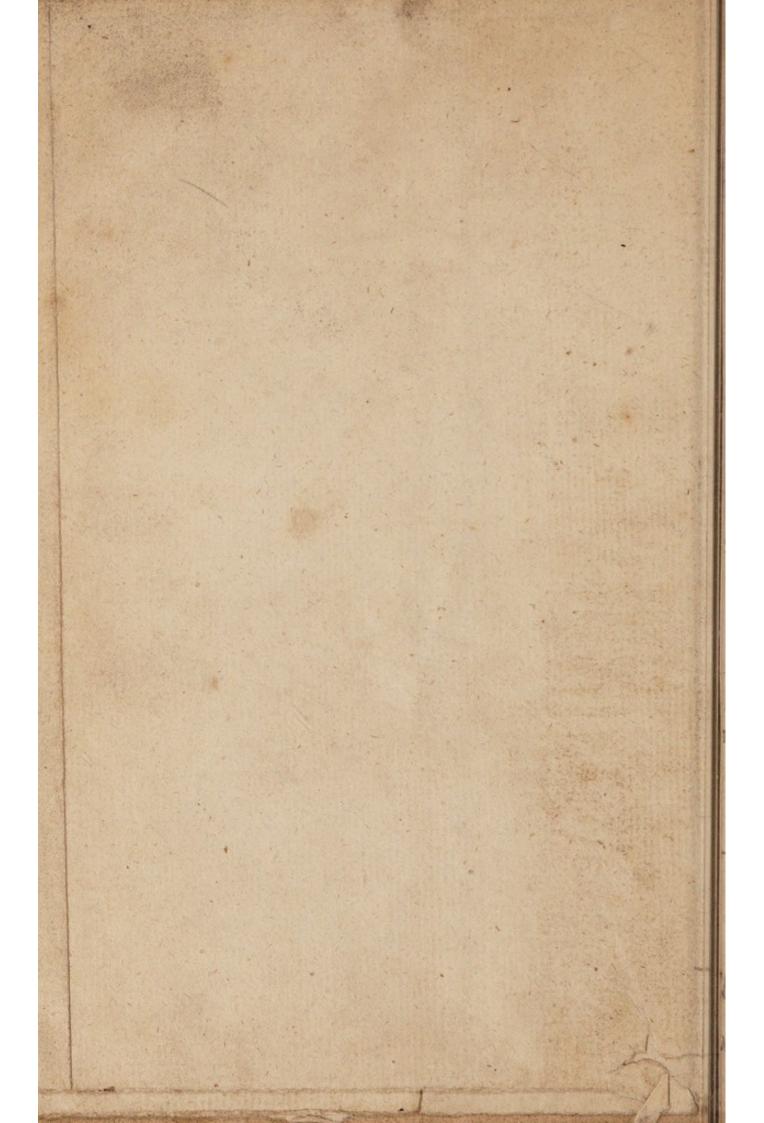
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## THE

# Gentleman's Dictionary.

## PART III.

## CONTAINING

The Art of NAVIGATION: With the Explanation of all the Terms relating to Naval-Affairs; as in the Building, Rigging, Working, and Fighting of SHIPS: Of Officers, and their Duty, &c.

The Art of Navigation Teaches how to Conduct or Guide a Ship from one Place to another, by the help of Sea-Charts, Magnetic-Compais, Sounding-Line, Log-Line, and Due Observations of the Height of the Sun and Stars; As also, a thorow-Knowlege in the Working of a Ship, upon all Occasions whatsoever: And therefore the Art of Navigation bas Two Paris, (viz.) The Piloting, and the Working part of Navigation.

The Names of each Part, and Material belonging to a Ship compleatly Rigg'd, are here rank'd in an Alphabetical Order, and fully Described, with their several Uses; as also the principal Sea-Terms, and Phrases in the Working of a Ship, in all Circumstances, amply Explain'd; with variety of Instances, shewing when properly to apply such Expressions: And all the Terms of Art, as well in the Piloting, as in the Wirking-part of Navigation, are here largely infifted on.

#### ABA

part of the Ship towards pany? the Stern, or the Hindpart of the Ship.

The Mast hangs Aft; that is, The is, to Take in the Flag. Mast hangs towards the Siern.

How Chear ye Fore and Aft? that

### ADM

BAFT, or Aft, is that is, How fares all your Ship's Com-

ABASE, fignifies to Lower or Take in; as, to Abase the Flag,

ADMIRAL, is the Chief of a Fleet, or He that has the Com-Aaa mand

mand of a whole Fleet, or is Intrusted with the Naval Assairs of a Kingdom. See Flags, and Officers.

AFTWARD, the Hinder-

part of the Ship.

ALOOF, or, Keep your Loof, is a word of Command from him that Cons the Ship, to the Man at Helm, when the Ship Sails upon a Wind, or on a Quarter-Wind, directing him to keep the Ship near the Wind. See Cond.

ALTITUDE of the Sun, or

Star. See Height.

Meridian Altitude. See Meri-

dian.

AMAIN, is a word fometimes used by a Ship to his Enemy, by way of Defiance, or Commanding him to Strike his Top-Sails, that is, to Yield.

Strike Amain; that is, Lower

your Top-Sails.

an Arc of the Horizon, intercepted between the Prime Vertical and the Sun, in his Rising or Setting.

Magnetical Amplitude, is an Arc of the Horizon, intercepted between the Sun in his Rifing or Setting, and the East or West Point

of the Compass.

ANCHOR, is an Instrument to stop Ships on the Sea or River: It consists of a Shank or Beam, with Flooks at one end, which sasten to to the Ground, their length being one third of the Shank; and at the other end is sasten'd the Stock, serving to guide the Flook, that it may fix in the Ground; as also a Ring, to which the Cable is sasten'd. There are several forts of Anchors,

differing only in Weight, which is according to the Burden of the Ship.

Sheet-Anchor, is the greatest of all that belong to a Ship, and is never used but in great Necessity, as being their utmost Resuge, when forced to Ride on a Lee-shore.

Bow-Anchors, or First and Second Bower, or Best and Small Bower, are such as the Ship, in Fair Wea-

ther, may Ride by.

Kedge-Anchor, or Kedger, used in Calm Weather, in a low Stream; or to Kedge up and down a narrow River, lest the Wind or Tide should drive the Ship a-shore.

Grapples, or Grapplings, are the smallest of all the Anchors; they have four Flooks, but no Stock: Their Use is, for a Boat to ride by, or to throw into an Enemy's Ship in a Close Engagement; to catch hold of the Gratings, Rails, &c. in order for Boarding her.

To Ride at Anchor, is faid of a Ship which is held so fast by her Anchors, as not to be driven with either Wind or Tide. The best Riding at Anchor, is when the Ship is Land-lock'd, and out of the Tide.

To Cast, or Drop Anchor, is to let it fall, to stop the Course of the Ship.

To Weigh Anchor, is to get it up.

in order to Set Sail.

To Shope an Anchor, is to put Boards fitted for that purpose on the Flooks, that the Anchor may the better hold in Soft Ground.

The Anchor is Foul; that is, the Cable is hitch'd about the Flook,

by

by the turning about of the Ship.

The Anchor is come Home, is, when it cannot hold the Ship, but that the drives away by the violence of the Wind or Tide.

The Anchor is a Peck; that is, the Anchor is right under the Hawze (or Hole) through which the Cable belonging to that Anchor runs out.

The Anchor is a Cock-bell; that is, the Anchor hangs up and down by the Side of the Ship.

Pudding of the Anchor. See

Pudding.

ANCHORAGE, or Anchoring, a Ground fit to hold a Ship's Anchor, that she may ride it out safely. The best Anchoring Ground is stiff Clays, or hard Sand.

ARMED: A cross-Bar-Shot is said to be Armed, when some Rope-yarn, or the like, is rolled round about the End of the Iron-Bar which runneth through the Shot. This is done, that the Shot may be the better Ramm'd into the Gun; as also, lest its Ends should catch into the Honey-combs in the Piece.

ARMINGS, or Waste-Cloths, are a sort of Red Cloths hung about the Out-sides of the Ship's Upper Works, fore and aft, and before the Cubbridge-heads: Its Use is for Show, and to Grace the Ship; as also, to cover the Men, in time of an Engagement, from being seen by the Enemy.

Round-Tops, for the same Purpose.

ARM-MAST. See Mast. AVAST, fignifies to Stay,

Hold, or Stop.

AWNING, is a Sail, or the like, hung over any part of the Ship above the Decks, to keep off the Sun's scorching Heat, in Hot Climates; and sometimes, as a desence from Rain, or Wind. In a Boat, an Awning is made, by bringing the Sail over the Tard and Stay, and booming it out with the Boat-hook.

AZIMUTH of the Sun, is an Arc of the Horizon, intercepted between the Meridian, and the Vertical Circle which passeth

the Centre of the Sun.

Magnetical Azimuth, is an Arc of the Horizon, intercepted between the Magnetical Meridian and the Sun's Azimuth Circle: 'Tis found by an Azimuth Compass, by observing the Sun, when he is about 10 or 15 Degrees above the Horizon.

AZIMUTH-COMPASS.

See Compass.

B

BACK-STAFF, is an Informement of excellent Use in taking the Sun's Altitude at Sea. Invented by one Captain Davis a Welshman, and is call'd, by some, Davis's Quadrant, or the Sea-Quadrant; but by the French, 'tis call'd, the English Quadrant.

BACK-STAYS. See

Stays.

BAIL, or to Baile, is to throw the Water, by Hand, out of the Boat.

BAILS, are the Hoops that

bear up the Title of a Boat.

BALLAST of a Ship, is either Gravel, Stones, &c. flow'd in the Hold, to keep her stiff in the Sea, that the may bear the more Sail.

Trench the Ballast; that is, (in seeking a Leak) to part the

Ballaft.

The Ballast Shoots; that is, it runs over from one side to the other.

BARE-PUMP. See Pump.

BARGES, are Boats of State and Pleasure, which Men of War have to carry Generals, Admirals, and Chief-Commanders; they are generally finely built, and adorn'd with various Ornaments, having Bales and Tilts, and Seats furnish'd with Cushions and Carpets, &c. and Benches for many Oars: These are also used in Navigable Rivers that lead to Rich Cities. Alfo, those great Flat bottom'd Veffels, employ'd in Navigable Rivers, for carrying of Goods, Ge. are call'd Barges.

BARQUE, or Bark, is a Vessel with Three Masts, (viz.) Main-Mast, Fore-Mast, and Misson-Mast: They carry about

200 Tuns.

BARQUE-Longue, is a small, low, and sharp-built, but very long Vessel, without a Deck; they go with Sails and Oars, and are common in Spain.

BARRS, Capstan-Barrs. See

Capitan.

BEAK, or Beak-Head of a Ship, is that Part without the Ship, before the Fore-Castle, which is fasten'd to the Stem, supported by the Main-Knee: 'Tis commonly Carv'd and Painted, and is a great Ornament to the Ship, besides other necessary Uses.

BEAKONS, or Bedcons, are Fires kept on the Sea-Coasts, to prevent Shipwracks, and to give

Notice of Invasions, &c.

BEAMS of a Ship, are the great Main Cross-Timbers which keep the Sides of the Ship asunder, and which support the Decks and Orlops: They are reckon'd by First, Second, and Third Beam, from the

Main-Beam, or that which is

next the Main-Malt.

Midship Beam, is the Greatest. Beam of all.

BEAR, is a word used in

these several senses:

Bear up; that is, Let the Ship sail more before the Wind.

Bear up round; that is, Put

her right before the Wind.

Bear in with the Land, or Harbour; that is, when she sails towards the Shore, with the Wind Large, or before the Wind.

The Ship Bears off; that is said of a Ship that keeps off

from the Land.

The Ship Bears a good Sail; that is, (having all her Sails abroad, in a Gale of Wind) fails upright in the Water. To bring the Guns to Bear; that is, to lie right with the Mark.

BEARING, the Point of the Compass, that one Place Bears

from another.

BECALM'D, is said of a Ship that has not a Breath of Wind: And 'tis usual to say, Our Ships lay so close together, that we Becalm'd one another; that is, The Wind had no Power over us. See Rain.

BED of the Carriage of a Gun, is the Plank which lies under

the Piece.

To BELAY, is to make fast the Ropes in their proper

Places.

BENDS, Wails, or Wales, the Outmost Timbers of a Ship's-fide, on which Men set their Feet, in climbing up: They are reckon'd from the Water, and are call'd the First, Second, or Third Bend, or Wail: They are the chief strength of the Ship's-Sides, and have the Beams, Krees and Foot-books bolted to them.

To Bend the Cable; that is, to make it fast to the Ring of the

Anchor.

To Unbend the Cable; that is, to loosen it from the Ring of the Anchor, as it is often done, when the Ship is long at Sea.

To Bend the Main-Sail, is to make it fast to the Yard.

BENDING, is Tying two

Ropes, or Cables, together.

BENEAP'D: A Ship is Beneap'd, that is, when the Water does not flow high enough to bring the Ship off the Ground, out of the Dock, or over the Barr.

BIGHT; any part of a Rope

between the Ends.

Holding by the Bight, is to hold by that part of the Rope which is Quoyl'd, or Roll'd up.

BILBOWS, a Sea-Punishment, answering to Stocks at

Land. See Duckings.

BILGE of a Ship, is the bottom of her Floor, or the breadth of the Place the Ship rests on, when she is a ground: Therefore,

Bilge-water, is that which lies on her Floor, and cannot go to

the Well of the Pump.

Bilge Pumps, or Burr-Pumps, are those which carry off the

Bilge-Water.

The Ship is Bilged; that is, she has some of her Timber struck off, on a Rock or Anchor, and Springs a Leak.

BILLOWS, or Surges of the Sea; that is, the Waves

raised by the Wind.

BIRTH, is a convenient Place to Moor a Ship in; as also a due Distance observed between Ships lying at Anchor, or under Sail. And a proper Place aboard for a Mess to put their Chests, &c. is call'd the Birth of that Mess.

BITTACLE, is a Square Box standing before him that Steers the Ship, with the Compass placed therein, to keep, and direct the Ship in her Course. BITTER, is a Turn of the Cable about the Bits.

She is brought up to a Bitter, is said of a Ship that is to stop by a Cable.

BITTER's-End, is that part of the Cable which stays within

Board.

BITS, in a Ship, are two great Pieces of Timber (usually placed abast the Manger in the Ship's Loof) thorow which the Cross-piece goes; their lower-parts are fasten'd to the Riders, and their middle parts (in great Ships) are bolted to two great Beams cross the Bows: Their Use is to Belay the Cable thereto, when the Ship rides at Anchor. In great Storms, to strengthen the Bits, and secure the Bows the Cable is sasten'd to the Main-Mast.

Fore-jeer-Bits, to which the Fore-jeer is fasten'd and Belay'd.

Fore-top-sail-sheet-Bits, to which the Fore-top-sail-sheet is belay'd.

BLOCKS, (at Sea, is the usual Name for what we call Pulleys at Land,) are thick Pieces of Wood, some with three, four or five Shivers in them, thorow which all the running Ropes runs.

Blecks, whether Single or Double, are distinguish'd and call'd by the Names of the Ropes they carry, and the Uses they serve for.

Double Blocks, are used when there is occasion for much frength; because they'll Purchase with more ease than single Blocks, tho' much slower.

Block and Block, a Phrase sigmisying, that two Blocks meet, in

Haling any Tackle, or Halliard, having such Blocks belonging to them.

Fish-Block, is hung in a Notch at the End of the David; it serves to hale up the Flooks of the

Anchor to the Ship's Bow.

with a Shiver in it, and a Notch cut through one of its Cheeks, for the more ready receiving in of any Rope; fince by this Notch the middle part of a Rope may be reev'd into the Block, without passing it end-wise. 'Tis commonly fasten'd with a Strap about the Main-Mast, close to the Upper-Deck; and is chiefly used for the Fall of the Winding-Tackle, which is reev'd into this Block, and then brought to the Capstan.

BLUFF, or Bluff-headed, is faid of a Ship with an upright

Stern.

BOARD, is a word variously used at Sea: As,

To go Aboard, fignifies to go

into the Ship.

To heave Over-board, is to throw a thing out the Ship, into the Sea.

To flip by the Board, is to flip

down by the Ship's fide.

Board and Board, is when two Ships come so near as to touch one another, or when they lie side by side.

to Windward: And the longer your Boards are, the more you

work into the Wind.

To Board it up, is to beat it up, some-

sometimes upon another, or bolt speed, to avoid Trains, and the it to and again, in failing against the Wind.

is, the Ship advances much at

one Tack.

The Weather-Board, is that fide of the Ship which is to Wind-

ward.

To Board a Ship, is to Enter an Enemy's Ship in a Fight. Brarding a Ship, 'tis best to Bear directly up with him, and to cause all your Ports to Leeward to be beat open, and bring as many Guns from your Weather-fide strongest Boat belonging to a thither, as you have Ports for, and then Lay the Enemy's Ship on Board, Loof for Loof; and order your Tops and Yards to be Mann'd, and furnish'd with Necessaries; & let all your Smallthot be in a readiness; then Charge at once with both Small and Great, and at the same time Enter your Men in the Smoak, either on the Bow of your Enemies Ship, or bring your Midthip close up with her Quarter, and so enter your Men by the Shrouds. Or if you would use your Ordnance, 'tis beft to Board your Enemy's Ship a-thwait her Hawse; for then you may use most of your Great-Guns, and the only them of the Prow. Let some of your Men endeavour to cut down the Enemy's Yards, and Tackle, whilft others clear the Decks, and beat the Enemy from aloft: Then let the Scuttles, and Hatches be

sometimes upon one Tack, and broke open with all possible Danger of being Blown-up, by Barrels of Powder placed under She makes a good Board; that the Decks. Thus your Men being in Possession of the Sails and Helm, and the Enemy every way stow'd below the Decks, the Ship is taken, and all lies at your Discretion.

LOGBOARD. See Log.

BOATS, of which there are feveral forts belonging to a a Ship; whose Uses you have

under their Names.

Long-Boat, is the largest and Ship, that can be hois'd aboard of her: It hath a Mait, Sail, and Oars, as other Boats, as also a Tiller to the Rudder, which answers to the Helm of a Ship: It's Useis, to Weigh the Anchor, bring Goods, Provision, Gc. to, or from the Ship; and other Services, as Occasion requires.

To Trim the Boat, is to keep

her Even.

To Wind the Boat; is, to bring her Head the other way.

BOAT-HOOK. See Hook. BOATROPE. See Rope.

BOATSWAIN, is a Ship-Officer, to whom is committed the Charge of all the Tackling, Sails, and Rigging, Ropes, Cables, Anchors, Flags, Pendants, Oc. He also calls out the several Gangs and Companies aboard, to the due Execution of their Watches, Works, and Spells, Oc.

BOATSWAIN'S-MATE, has the peculiar Command of the

Aaa 4

Long-

Long-Boat, for the setting forth of Anchors, Weighing or fetching Home an Anchor, Warping, Towing, or Mooring; and to give an Account of his Store.

BOLD-BOW. See Bow.

BOLD-HAWSE. See

Hawle.

BOLTS, in a Ship, are Iron-Pins, of which there are several forts, according to their different Make, and Uses.

Drive Bolts, are long Pieces of Iron, ferving to drive out other Bolts, Tree nails, or any fuch

thing.

Rag-Bolts, are fuch as have lags or Barbs on each fide, to keep them flying out of the Hole, wherein they are driven.

Clenck-Bolis, are those that are Clench'd with a Rivetting-Hammer, at the end where they

come through,

Forelock-Bolts, are those, which have at the end a Forelock of Iron driven in, to keep it from starting back.

Set-Bolts, are those used for forcing of the Planks, and the other Works, and bringing them

close together.

Fend, or Fender-Bolts, are made with long and thick heads, and struck into the uttermost Bends or Wales of the Ship, to fave her Sides from Bruises, Gallings, eud Hurts.

Ring-Bolts, are those used for Bringing to of the Planks, and those Parts whereto are fasten'd the Breeches and Tackles of the Ordnance.

BOLT-ROPE. See Rope. BOLTSPRIT. See Bow-Sprit

BONAVENTURE - Misen.

See Malts.

BONNETS, are small Sails to put to the Main or Fore-Course, when they are toonarrow or shallow to cloath the Maft.

Lace on the Bonnet; that is, fasten it to the Course.

Shake off the Bonnet; that is,

Take it off the Course.

BOOM, is a long Piece of Timber, with which the Clew of the Studding-Sail is spread out; and fometimes the Boom is used to spread or Boom out the Clew of the Main-Mast. Also, a Cable firetch'd a-thwart the Mouth of a River or Harbour, with Yards, Top-masts, Battling or Spars of Wood, &c. lash'd to it, to prevent an Enemy's entring in, is call'd a Boom: And fuch Monfieur Chateau-Renault had with Diligence and Art prepared at Vigo in Gallicia, for the Defence of the Plate-Fleet lying there: But how strong soever, 'twas Forc'd by Sir Thomas Hobson, who, by that means, made way for the rest of the English Ships to comein, to partake of the Taking, or Destroying all that Fleet. 10 1702.

A Ship com's Booming; that is, the makes all the Sail the can.

BORES-Tackles.

Tackles.

BOW of a Ship, is that Part of her, which begins at the Loof

and'

and compassing Ends of the Stem, and ends at the Sternmostpart of the Fore-caftle.

Bold Bow, that is, a Broad

Bow.

Lean-Bow, that is, a narrow way all together! thin Bow.

Bow-Pieces, are the Pieces of Ordnance at the Bow.

BOWER, Small, or Best.

See Anchor.

BOW-LINE, is a Rope made fast to the Leech or Middlepart of the out-fide of the Sail; tis faftened by two, three, or four Ropes, like a Crow's-Foot, to as many parts of the Sail; only the Misen-Bow-line is fastened to the lower-end of the Yard: This Rope belongs to all Sails except the Sprit-Sail, and Sprit-Top-fail; therefore those Sails cannot be used close by a Wind, for want of room to hale the Bow-Line forward by; fince the Use of the Bow-Line, is to make the Sails fland fharp, or close, or by a Wind.

> Sharp the Bow-Line; that is, Hale it taught; or, Pull it hard.

> Hale up the Bow-Line; that is,

Pull it harder forward on.

Check, or Eife, or Run up the Bow-Line; that is, Let it be more Slack.

BOW-LINE-BRIDLES, are the Ropes by which the Bow Line is fastened to the

Leech of the Sail.

BOW-LINE-KNOT, is a Knot that will not flip, by which the Bow-Line-Bridles is faitened to the Crengles,

BOWSE, fignifies as much as to Hale, or Pull.

Bowling upon the Tack; that

is, Haleing upon a Tack.

Bowse away! that is, Pull a-

BOW-SPRIT, or Bolt-Sprit, is a kind of Mast resting slopewife on the head of the Main-Stem, and having its lowerend fallen'd to the Partners of the Fore-mast, and farther supported by the Fore-stay: It carries the Sprit-fail, Sprit-topfail, and Jack-staff : And its Length is usually the same with the Fore-mast.

BOW-SPRIT-LADDER.

Ladder.

BRACES, are Ropes belonging to all the Yards of a Ship, except the Milen, two to each Yard, reev'd thorow Blocks that are fasten'd to Pennants feiz'd to the Yard-arms: Their Use is either to Square, or to Traverse the Yards: And all these Braces come aftward on, as the Main-Brace comes to the Poop; the Main-top-fail Brace comes to the Misen-top, and and thence to the Main-shrowds: The Fore and Fore-top-fail-Braces come down by the Main and Main-top-fail-stays, and fo of the reft. But the Milen bowline ferves to Brace to the Yard; and the Cross-jack-Braces are brought forwards to the Mainshrowds, when a Ship fails close by a Wind.

BRACKETS, are small Knees serving to support the

Galleries ;

Galleries; and are commonly Carved: Also, the Timbers that support the Gratings in the

Head, are call'd Brackets.

BRAILES, are imall Ropes made use of to Furl the Sails a-cross; they belong only to the two Courses, and the Misen-sail: They are reev'd through Blocks feiz'd on each fide the Ties, and comes down before the Sail, being at the wery skirt thereof fasten'd to the Crengles.

Hale up the Brails, or, Brail up the Sail; that is, Hale up the Sail, in order to be Furl'd, or

bound close to the Yard. BRAKE, is the Handle of

a Pump.

BREAD-ROOM. See Room. BREAMING of a Ship. See Brooming.

BREAST-CASKETS.

See Caskets.

BREAST-FAST, is a Rope Easten'd to some part of a Ship forward on, to keep her Head fast to a Wharf, or the like.

BREAST-HOOKS, are the Compassing Timbers before, in a Ship, which help to strengthen her Stem, and all her Fore-

part.

BREAST-ROPE. See Rope. BREECHINGS, are those Ropes with which the Great-Guns are lash'd, or fasten'd to the Ship's-fide.

BREEZE, a shifting Wind Bunt or Compass. for some certain Hours of the Wind; that is, The Bunt hangs Day, or Night; common in Africa, too much to Leeward.

and some Parts of the East, and West-Indies.

BRIGANTINE, is a small light Veffel, which can both Row and Sail well, and is either for Fighting, or giving Chase.

BROOMING of a Ship, is to wash and burn off, all the Filth that the has contracted on her Sides, with Weeds, Straw, Broom, or the like, when she is on the Careen, or on the Ground.

BUCKET-ROPE.

Rope.

BULK of a Ship, is her whole Content in the Hold, for

the Stowage of Goods.

To Break the Bulk; that is, to open the Hold, and take out Goods thence.

BULK-HEADS, are Partitions made a-thwart the Ship with Boards, whereby one part is divided from the other, as the Great-Cabbin, Gun-Room, Bread-Room, and several other Divifions. The Bulk-Head afore, is the Partition between the Forecaftle and Gratings in the Head.

BUNT of a Sail, is the Middle-part thereof, which is defignedly form'd into a Bag or Cavity, that the Sail may receive the more Wind. It is used molily in Top-fails; because Courses are generally cut square, or with but small allowance for

that blows from Sea, or Land, The Bunt holds much Leeward

BUNT-LINES, are small Lines made fast to the bottom of the Sails, in the middle-part of the Bolt-rope to a Crengle, and so are reev'd through a small Block seiz'd to the Yard: Their Use is, to trice or draw up the Bunt of the Sail, for the better furling of it up.

BUOY, is a short piece of Wood, or close-hoop'd Barrel, fasten'd so as to float directly over the Anchor; and by that means, 'tis always known where

about it lies.

Stream the Buoy; that is, Let the Anchor fall, while the Ship

has way.

To Buoy up a Cable, is to fasten some Pieces of Wood, Barrels, drc. to the Cable, near the Anchor; that the Cable may not touch the Ground, in case it be soul or Rocky, lest it should be fretted, and cut off

BUOYANT, fignifies any thing that is floating, or floatable.

CAN-BUOYS, are of a larger fize; and used to discover dangerous Rocks and Shelves, by being fasten'd over them.

BUOY-ROPE. See Rope.

BURTON, is a small Tackle, consisting of two single Blocks, and may be made fast any where, at pleasure, for hoisting of small things in or out; and will Purchase more than a single Tackle with two Blocks.

BUT-ENDS, are the Foreends of all Planks under water, as they rife, and are join'd one End to another; which, in great

Ships are most carefully bolted; for if any one of these Ends should spring, or give way, the Leak would be very dangerous,

and difficult to ftop.

BUTTOCK of a ship, is that part of her, which is her Breadth right a-stern, from the Tack upwards: And a Ship is said to have a Broad or Narrow Buttock, according as she is built Broad or Narrow at the Transom.

C

CABINS, are the little Rooms, or Appartments, wherein the Officers lie, such as are on the Quarter-deck, and on each side of the Steerage, &c.

all, and that which properly belongs to the Captain, or Chief-

Commander.

CABLE of a Ship, is a great Rope fasten'd to the Anchors, and proportional to them; serving to keep the Ship fast, whilst she rides at Anchor.

Sheet-Anchor-Cable, is the greateft of all, belonging to a Ship.

serve, or Plat the Cable; that is, Bind it about with Ropes, Clours, &c. to keep it from

galling in the Hawie.

To Splice a Cable, is to make two Pieces fast together, by working the several Threads of the Rope, the one into the other.

Pay

Pay more Cable; that is, Let it more out from the Ship, that the Boat which carries the Anchor may the more easily drop it into the Sea.

Pay cheap the Cable; that is, Put, or, Hand it out a-pace.

Veer more Cable ; that is, Let

more of it run out.

The Cable is well-Laid; that is, well-Wrought, or well-Made.

A Shot of Cable; when the Cable is double in length, to make the Ship ride with more case.

To Quoil a Cable, is to roll it up in a Ring, or fack one above another.

Cable-Tire, is where these several Rolls of Cables are quoil'd.

To Bend, or Unbend the Cable. See Bend.

Pointing the Cable. See Point-

zng.

CABURNS, are small Lines made of spun Yarn, to bind Cables, seize Tackles, or the like.

CALKING, the fame

with Caulking; which fee.

CALM, is when there is no Wind stirring. See Rains.

Calm Sea; that is, when the Sea appears very smooth.

CAMBER'D - Deck. See

Deck.

great Can wherewith Seamen pour Water into Fumps, to make them Pump.

CAN-BUOYS. See

buoys.

CAN-HOOK. See Hook.

CANOW, is a little Boat, chiefly for the Service of great Ships: The Indians make these Canows of the Trunk of a great Tree, hollow'd or scoop'd; or of the Barks of Trees sew'd together.

CANTING - COINS.

See Coins.

CAP, in a Ship, is a square Piece of Timber put over the Head, or upper-end of any Mast, having a round Hole to receive the Mast. By means of these Caps, the Top-masts, and Top-gallant-masts are kept steady, and firm, in the Tressel-trees, where their Feet stand; as those of the lower Masts do, in the Steps; lest they should be Born by the board, in a stiff Gale: So that every Mast that has a Top, has a Cap.

of Lead, which is put over the Touch hole of a Gun, to keep the Priming from being wasted, or spilt.

To CAP, is faid of a Ship, in the Trials of the Running or

Setting of Currents.

ning out with a Point into the Sea; as Cape St. Vincent, Cape de Verde, Cape of Good-Hope, Cape-

Horn, &c.

CAPSTAN, Main-Capstan, is a great Piece of Timber in the nature of a Windlass, placed next behind the Main-mast; its foot standing in a step on the Lower-deck, and its head be-

tween the two Upper-decks; form'd into several squares, with holes in them: It's Use is, to weigh the Anchors, to hoise up, or strike down Top-masts, to heave any weighty thing, or to strain any Rope that requireth a main force.

Jear-Capstan, is placed between the Main-mast and the Foremast; and serves to strain any Rope, heave upon the Jear-rope, or upon the Viol, or hold-off by, at the weighing of an An-

chor.

Capstan-Bars, are the Birs or Pieces of Wood, that are put into the Capstan-holes, to heave up any thing of weight into the Ship, by the help of as many Men, as can well stand at them.

Man the Capstan! that is, Have all the Hands necessary to heave at the Capstan-Bars.

Spindle of the Capstan, is the

main Body thereof.

Whelps of a Capstan, are short Pieces of Wood made fast to it, to keep the Cable from coming too nigh, in turning it about.

Pawl of a Capstan, is a short piece of Iron made fast to the Deck, and resting upon the Whelps, to keep the Capstan from recoiling, which is of dangerous consequence.

Ropping it from turning, by

means of the Pawl.

Come up Capstan! or, Launch out the Capstan! that is, Slack

the Cable which you heave

by.

CAPTAIN of a Ship, is he that Commands a Ship of War in Chief, in a Fight; And is a Charge, as great, as that of a Colonel at Lard: Besides his being Accountable for the Ship, if by his Mis-conduct Lost, or Taken. See Officers.

Points, are the North, West, South, and East Points of the

Compais.

CAREEN a Ship, is to bring her to lie down on one fide, in order to Trim, and Caulk the other fide. Or a Ship is said to be brought to the Careen, when the most part of her Lading, Go. being taken our, the is hall'd down on one fide by a small Vessel, as low as neceffary, and there kept by the weight of the Ballaft, Ordnance, dre. as well as by Repes, left her Mafts should be strain'd too much; and this is done, that her Sides or Bottom may be Trimm d. Seams Caulk'd or any thing that's faulty under Water, mended.

A Ship sails on the Careen; that is said of a Ship that lies much on one side, when the

fails.

CARGO: By a Ship's Cargo, is meant, the Quantity of Goods that a Merchant-ship is laden with. See Burden.

CARLINGS, are Timbers in a Ship, lying Fore and Alt along from Beam to Beam, whereon the Ledges rest, on which the Planks of the Ship are fasten'd: And all the Carlings have their Ends let into the Beams Culvertail-wise.

care those Timbers which go athwart the Ship, from her Sides to the Hatch-way, and which bear up the Deck on both fides.

CARNELS; so some call those Vessels which go with Misen-sails instead of Main-

fails.

CARNEL-WORK: In building of Ships, first with their Timbers and Beams, and after bringing on their Planks, is call'd Carnel-work, to distinguish

it from Clinch-work.

CARPENTER of a Ship, his Office, when at Sea, is to have all things ready that relate to his business; that is, of keeping the Ship in Repair, as Stopping of Leaks, Fishing the Masts or Yards, Caulking, Breaming, and the like. He hath a Mate under him, and a Crew, or Gang, to Command on necessary Occasions. See Officers.

CARRIAGE of a Gun, is the Frame of Timber on which a Piece of Ordnance is laid, fix'd, and mounted.

CARTOUCHE, the same

with Cartridges.

CARTRIDGES, are Cases of Paper, or, as now they are usually made for Ships of War, (to prevent Danger from fire in a Gun not, well spung'd)

or Parchment, exactly fitted to the Bore of a Piece of Ordnance, and containing its due Charge of Powder. There are also Tin-Cartridges, in which the Paper or Parchment ones, are both form'd and carried.

Musket-Bullets, Stones, old pieces of Iron, &c. are put up into Cases, and so shot out of Great-Guns: They are generally used at Sea, to clear the Enemy's Decks, when they are full of Men.

Ropes made of Sinnet, and fasten'd to Gromets, or little Rings upon the Yards: Their Use is, to make fast the Sail to the Yard, when it is to be furl'd.

Breast Caskets, are the longest or biggest of these, or those in the midst of the Yard, betwixt

the Ties.

CAST a Point of Traverse, fignifies, to prick down on a Chart the Point of the Compass any Place bears from you; or to find what point of the Compass the Ship bears at any Instant, or what Way the Ship has made.

CATARACT, is a Precipice in the Chanel of a River, caused by Rocks, or other Obstacles, stopping the Course of its Stream, from whence the Water falls with a great noise and impetuosity; as the Catarals of Nile, Danube, Rhine, &c.

CAT-HARPINGS, are small Ropes, running in little Blocks from one side of the Shrowds to the other, near the Deck: Their Use is to force the Shrowds, and make them taught, for the more security and safety of the Masts.

CAT, or Cat-bead, is a short Piece of Timber in a Ship, lying aloft right over the Hawse, having at one end two Shivers, wherein is reev'd a Rope, with a great Iron-hook sasten'd to it call'd Cat-Hook: It's Use is to trice up the Anchor from the Hawse to the top of the Forecastle.

are over the Ports, as right with the Capstan as they can be: Their Use is, to heave the Ship a-stern, upon occasion, by a Cable, or a Hawser, call'd Stern-fast.

CAT - HOOKS. See

Cat.

CAT-ROPE. See Rope.

c A U L K I N G of a Ship, is driving Okum, or the like, into all the Seams of the Planks of the Ship, to prevent Leaking, or keep out the Water.

are Iron-Chissels for that pur-

pofe.

Rope, is faid of a Rope that is gall'd or fretted, or when a Rope rubs against any thing.

The Cable is Chafed in the Hawse; that is, fretted, or be-

gun to be worn out there.

CHAIN-PUMP. See Pump.

CHAINS in a Ship, are those Irons to which the Shrowds of the Masts are made fast to the Chain-Wails.

CHAIN-SHOT, is two Bullets, or rather Half-Bullets with a Chain between them; they are used at Sea, to shoot down Yards or Masts, to cut the Shrowds, or any Rigging of a Ship.

CHAIN-WAILS in a Ship, are the broad Timbers which are made jetting out of her Sides; to which, with Chains, the Shrouds are fasten'd, and by them spread out, the better to

secure the Masts.

CHANEL, is a narrow Paffage of Sea between two Lands, joining one part of the Sea or Ocean to another part; as the British Chanel between England and France, and the like.

CHARGE: A Ship of Charge, is such as draws much Water, or swims deep in the Sea: Though sometimes an unweildy Ship, that will not ware nor steer, is call'd a Ship of Charge.

CHART, a Nautical, Marine, or Sea-Chart, is a Description or Draught of any Place, projected on Paper or Parchment, for the benefit of Seamen; discovering the Sea-Coasts, Sands, Rocks, Depth of Water, Gr. as also the Latitude, Longitude, Distances and Bearings of Places.

Plain-Chart, is a Plat or Chart, used by Seamen, having the Degrees

Degrees of Longitude thereon, made of equal Length with those of Latitude. This Chart is very easie and useful in short Voyages:
But in long Voyages, except under the Equinoctial, or near a Meridian, 'tis impossible to sail by them, any thing correctly:
For sew or no Places, but such as sie under the fame Meridian, or under the Equinoctial, can be express'd therein, according to their true Distance and Situation one from the other. See Mercator.

Mercator's, or Wright's Chart, is a Projection of the Surface of the Earth in Plano; wherein the Degrees upon the Meridian Encrease towards the Poles, in the fame Proportion that the Parallel Circles Decrease towards them. This Projection was hinted by Ptolemy; and a General Chart accordingly was made, and publish'd by Mercator, and therefore have over fince bin call'd by his Name : But the Thing Demonstrated, and a ready Way shew'd for Describing it, was not, till Mr. Wright taught to Enlarge the Meridian-Line, by the continual Addition of Secants: So that all the Points of Latitude in each Parallel might be protracted in like Proportion with those of Longitude; and therefore will truly shew, in any affign'd Course, the Ship's Morion on an Imaginary Plane, where the Parallels of Latitude are strait Lines, and the Meridians also parallel to one another, by a Method that is

easie, certain, and demonstrable both in Longitude, Latitude, and Distance, and is the only true way of Sailing that is Practicable: And the most Curious and Correct Chart of this kind, is that done by the Excellent Mathematician Captain Halley; where you have not only the Places justly and accurately laid down, but also the Degrees of the Variation of the Magnetic-Needle, or Sea-Compais, and that by Inspection only; as Design'd by his own Observations, in a Voyage purposely made to the Western and Southern Ocean, at the Public Charge, in the Year of Our Lord, 1700. And thefe Charts are to be Sold by R. Mount, and T. Page, at the Postern on Tower Hill, London.

CHASE, fignifies, the Ship

Chased or Pursued.

To Chase, or Giving Chase, is

to Pursue a Ship at Sea.

CHASER, is the Ship in Pursuit of the Chase.

Stern-Chase, is when the Chase is right a-head with the Chaser.

To lie with a Ship's Fore-foot in a Chase, is to sail the nearest way to meet her, and so to cross her in her way, or to come

a-cross her Fore-foot.

A Ship of a good Forward, or Stern Chase, is a Ship that is so built forward on, or a-stern, that she can carry many Guns, to shoot right forwards, or backwards.

In Chasing, these Rules are generally observed: If the Chased

pe

be found any thing to the Wind- the Stern, ( which are only useward, the Chafer is to bring all ful, when they are Chafed, or his Tacks aboard, and to shape his Course to meet her at the nearest Angle. If the Chased be to the Leeward, then the Chaser may come in with her ; except the bear upright before the Wind, and fo out-fail her; or that she bring her felf close by a Wind, and the Chaser prove the more Leeward Ship, and so lose her that If the Chase be found way. right-a-head, and so the Chaser be put to a stern-Chase; then the best Sailer shall carry it, if there be Sea-room, and Daylight.

Being come up close with the Chase, endeavour to cross her Fore-foot; and, by that means, you'll both hinder her Way, and avoid the Fury of her Ordnance, (except those in her Chase;) and use your own, if required, to more Advantage; and that as well your Chase pieces, at your first getting up within reach, as your Broad-fide, and Quarter-pièces, as you pass thwart ber Hamse; and scoure her Decks from Stem to Stern.

If the makes away from you, ply your Guns, as many as poffible, at her Sails, Yards, Masts, and general Tackling: And being near, spare not your Case-Thot, or Cross-bar-shot, to make the greater Damage.

CHASE-GUNS, are fuch, whose Ports are either in the Head, ( and then they are used in Chasing others; ) or in

or Pursued by another Ship, or Ships.

CHASE of a Gun, is its

whole Length.

CHECK the Bow-line. See Bow-line.

CHECQUE, Clerk of the Cheque. See Clerk, and Officers.

CHEEKS, are two Pieces of Timber, fitted on each fide of the Mast, at the Top firving to strengthen the Masts there. The uppermost Rail, or Piece of Timber, in the Beak of a Ship, is call'd the Cheek. The Knees, which fasten the Beak-head to the Bow of the Ship, are call'd Cheeks .. And the sides of any Block; or the Sides of a Ship's Carriage of a Gun, are call'd. Cheeks.

Upper and Lower Cheeks, are those Pieces of Timber on each fide of the Trail-board.

CHESSE-TREES, are two small Pieces of Timber, with a Hole in them, on each fide of the Ship, a little before her Loof; their Use is, for the Main-Tack to run thorow, and to hale it down to.

CHEST-ROPES, See

CHEVILS, the same with Knevels.

CHIRURGEON, the fame with Surgeon; which fee.

CLAMPS, in a Ship, are those thick Planks, which lie Fore and Aft, under the Beams Bbb

of the First Orlop, or Second- gallant-sails, and Sprit-sai's, that the Deck.

CLEAR the Hawfe.

Hamele.

CLEAT, is a Piece of Timber, fasten'd on the Yard-Arm of a Ship, to keep the Ropes from flipping off the Yard.

CLERKS of the Cheque, are Officers belonging to the Principal Dock-Tards; they are employ'd in Mustering the Workmen in the Yards; the Ship's Company, within Reach; and Chequing them out of Wages, when Absent. See Officers.

CLERKS of the Survey.

See Officers.

CLEW of the Sail, is the lower-corner of it, to which are made fast the Sheats and Tacks: A Iquare Sail hath no Clew.

A Sail with a great Clew; that is, with a great goaring, or flo-

ping down.

To Spread a great Clew; that is faid of a Ship that has a very long Yard, and therefore has

much Canvas in her Sail.

CLEW-GARNET, 18 a Rope made fast to the Clew of the Sail, and running from thence to a Block leiz'd to the middle of the Main, and Fore-Yard; which, in Furling, does hale up the Clew of the Sail close to the Middle of the Tard.

CLEW-LINE, is the

Deck; bearing them up at the Clew-garnet is to the Maineither End; and are the same sail and Fore-sail, and has the that the Rifing-Timbers are to same Use. In a Gust of Wind, when a Top-fail is to be taken See in, 'tis usual first, to hale home the Lee-Clew-Line; then 'twill be easier to take in the Sail.

CLINCH-BOLTS. See

Bolts.

CLINCH of a Cable, is that part of it which is bended about the Ring of the Anchor, and then feized, or made fatt.

CLINCHING, is a kind of flight Caulking, used at Sea, in a prospect of Foulweather, about the Ports; that is, to drive a little Okum into their Seams, to prevent the Water's coming in at them.

CLOATHED: A Mast is faid to be Cloathed, when the Sail is fo long, as to reach down to the Gratings of the Hatches, fo that no Wind can blow be-

low the Sail.

A Ship spreads much Cloth; · that is, the has Broad Sails.

CLOSE-QUARTERS.

See Quarters.

CLOYED: The Touch-hole is Closed; that is, something is got into the Touch-hole; fo that with the Priming-Iron, way cannot be made, for the Powder to be put in, to Prime her.

COACH, is the Council-Chamber on-board a

Ship.

COAMINGS, or Coomings, are thoe Planks, or that fame to the Top-fails, Top- Frame, which lie upon the Carling-

Carling-knees, and hear up the COCK-PIT, is a Place on Hatches higher than the rest of the Decks, to keep the Water from running down at the Hatches; and in which also Loop-holes, for Muskets to shoot out at, are usually made; in order to Clear the Decks of the Enemy, when a Ship is Boarded.

COASTING, is that Part of Navigation, where the Places affign'd, are not far diffant, fo that a Ship may fail in fight of Land, or within Soundings between them. In this, there is only required a good Knowlege of the Land, the Use of the compass, and Lead, or Sounding-Line: Such are the Voyages in the British Seas, between England, Holland, and France, in the Mediterranean, and Baltic-Seas.

COATS, are Pieces of Tarr'd-Canvale which are put about the Masts, at the Partners, to keep out Water: They are also put about the Pumps at the Decks, that no Water may go down there; and fuch are also used at the Rudder's-head.

COCK-BOATS, are Small Boats uled in Rivers, or near the Shoare: They are of no service at Sea, because too tender, weak, and imall.

COCKS, are little square Pieces of Brais, with Holes in them, put into Wooden-shivers, to keep them from splitting, and galling, by the Pin of the Block.

the Lower Floor, or Deck, abaft the Main-Capstan, lying between the Platform, or Orlop, and the Steward's-Room; where Partitions, for the Purfer, the Surgeon, and his Mates.

COCKSWAIN, or Coxfon. is an Officer a-board a Man of War, who has the care of the Barge, or Shallop, and all things belonging to it; to be always ready with his Boat's-Gang, or Crew, and to Man the Boat, on all Occasions: He fits at the Stern of the Boat, and steers; and has a Whiftle, to Call and Encourage his Men.

COILE, the same with

Quoil; which fee.

COINS, or Quoins, are Wedges of Wood, serving to raile, or lower the Breech of a Gun, upon Occasion.

Canting-Coins, are little thort Pieces of Wood. or Billets, cut Wedge-like, to lie betwixt the

Casks.

Standing-Coins, are Billets, or Pipe-staves, to keep the Casks from ftirring, or giving way.

COLLAR of a Ship, is a Rope fasten'd about her Beak-head, unto which the Dead-man's eye is feiz'd, that holds her Main-Itay. And that Rope which is wound about the Main-mast head, to fave the Shrowds from galling, is called also a Collar.

COMB, in a Ship, is a little Piece of Timber, fer under the lower-part of the Beak-head, near the middle: It has two Bbb 2 Holes Holes in it; and supplies to the Fore-tacks, what the Chest-trees do to the Main-tacks; that is, to bring the Fore-tacks a-board.

COMPASS, in Navigation, is an Instrument to direct the Ship's Course by; being a Round Box, with a graduated Circle, drawn on a Card, or Pastboard, hanging Horizontally therein, by means of a Brass Centre, or Cap, on an Erect Pin: The Card is divided into Four Quarters, representing the Four Cardinal-Winds, or Principal Points, East, West, North, and South; and each Quarter fubdivided into Eight other Equal Parts, making in all Two and thirty Points, or Rhumbs. And under the Card, from North to South, is placed a Magnetic-Needle, or Wire; whose Ends, touch'd by a Loadstone, always stand towards the North, and South; tho' in different Parts of the World, with different Variations from those Points. This Instrument is kept in the Bittacle; hanging fo in Brass-Rings, as to give such Way to the Motion of the Ship, that the Box will fland Horizontally steady. And by Steering by this Compass, ( well Made, and duly Rectified, ) is known how, or which Way the Ship fails, at all Times; and how to keep in, and direct her to, her true Course.

Fly of the Compass, is the same with the Card, or the round piece of Pastbord which has the Points drawn thereon; and the

Magnetical-Needle, or Touch'd-

Wire, underneath.

Variation of the Compass, is the Deflection of the Magnetical-Needle from the true Meridian; or that Arc of the Horizon, (either Eastward, or Westward,) intercepted between the True, and Magnetical-Meridian: And is found, either by the Sun's Amplitude, or Azimuth; as is seen in most Books of Navigation. And this Variation is not always the same, in the same Place; but varies, in process of Time, from what it was.

Who it was that Discover'd this Useful Property of the Load-Stone, is unknown; tho' tis conjectured, by very Eminent Perfons, that the Sea, or Magnetic-Compass, was first made by an English man. But we are certain, that the Phanomena of the Variation of the Compass, have bin Accounted for, only by our Learned Captain Halley, (now Savilian Professor of Geometry in Oxford; to whom the World is entirely Obliged, for his Excellent Theory, and Wonderful Discoveries in this Subject : as also tor his most-Curious Chart of the World, after Mr. Wright's Proje-Ction; wherein the Variation of the Needle is found at any Place by Inspection: The want of which, render'd one of the NoblestInventions, in a manner, utelets.

AZIMUTH - COMPASS, is and Inflrument made of Brass, resembling the Common Sea-Compasses; but has a Broad

Limb.

Limb, graduated Diagonally, with an Index, and Thread; and is fitted up in a square Wooden-Box, with Jambols, and other Contrivances, for a free liberty of hanging Horizontally: It chiefly serves for taking the Sun's Azimuth, or Amplitude, in order to find the Difference between the Magnetical Meridian, and the True Meridian, which shews the Variation of the Compass. These Instruments, if truly wrought, are very useful for that Purpose; and are excellently made, as also all Things of this Kind, by Mr. Richard Glynne, a very Skilful and Accurate Mathematical Instrument - Maker, next Door to the Latin Coffee-House in Ave-Maria-Lane, near St. Paul's, London.

Guide, or Direct the Ship in her right Course, or to give Words of Direction to the Man at Helm, how to Steer. And he that Con's the Ship, uses these Terms to him at Helm:

Starboard, or Port, the Helm; that is, Put the Helm a Starboard, or to the Larboard; that is, to the Right, or Left of the Ship; and then the Ship will go to the Larboard, or Starboard: For the Ship always fails contrary to the Helm.

Right the Helm! or, Helm a Midship! that is, Keep it right up; or in the Midships, when 'tis required the Ship should go right before the Wind.

Aloof! or, Luff! Keep your Loof! Fall not off! Veer no more! Keep her to! Touch the Wind! Have a care of the Lee-latch! are Directions much to the same purpose; implying only, that the Steers-man should keep the Ship near the Wind.

Ease the Hem! No Near! Bear up! That is, Let her fall to Leeward; or fail more Large, or more Before the Wind.

Steady! As you go! That is, Keep her upon the same Point; or, Keep her from going in and out, or making Taws; whether she sails Large, or Before the Wind.

Keep her Thus! Thus! That is, Let her go just as she does.

CONTINENT, is a vaft Continued Space of Land, containing many Countries, and Kingdoms; and confequently, not eafily differnible to be furrounded with the Sea.

convoys, are ships of war, employed for the Security and Safety of particular Traders; to prevent their being Insulted, in Time of War.

COOK, Ship's Gook; whose Business is, to Dress, and Deliver out the Victuals. He has a Mate, under him.

where the Victuals are Dress'd: In some Ships, 'tis seated in the Hold; but generally in the Fore-castle, where there are Furnaces contriv'd, a d other Necessaries, for the Purpose. cooper, ship's Cooper, is he that looks to the Casks, and all other Vessels, for Beer, Water, or any of er Liquor. He has a Mate, under him.

cordage, fignifies in general, all the Ropes belonging to

the Rigging of a Ship.

Officer that has the Charge of Setting and Relieving the Watches, and Centryes; and fees all the Soldiers and Sailers keep their Arms Clean, and Neat; and teaches them their Use. He has a Mate under him.

COUNTERS in a Ship, are

Parts of her: As,

Opper-Counter, is the Hollow Arching from the Gallery, to the lower part of the strait Piece of the Stern.

Lower-Counter, is between the Transom and the lower part of

the Gallery.

COURSE of a Ship, is that Point of the Compass on which she sails; and is indeed, the Angle, that the Rhumb-Line steer'd upon, makes with the Meridian.

Main-sail, and Fore-sail; which are call'd, the Main and Fore-Course.

To Sail under a Main-Course, and Bonnet; is, to sail under

Main-sail, and Bonnet.

To go under a Pair of Courses; that is, to fail under Main, and Fore-sail, without lacing on any Bonners. COXSWAIN, the same with

Cock swain.

CRABB, is an Engine of Wood with three Claws, placed on the Ground, for Launching of Ships, and to heave them into the Dock.

CRADLE, is a Timber Frame, made along the Out-fide of a Ship, or Galley, by the Bildge; ferving for the more secure and commodious Launching of her.

manner of Lines, Nets, Hooks, &c.

which serve for Fishing.

Small-Craft, are all such little Vessels; as Ketches, Hoys, and Smacks; made use of, in the

Fishing-Trade.

crane Lines going from the upperend of the Sprit-fail-top-mast, to the middle of the Fore-stays; they serve to keep the Sprit-failtop-mast upright and steady in its Place, and to strengthen it; in order that it might bear its Yard and Sail the better.

CRANK-Sided, is faid of a Ship that cannot bear her Sails; or can bear but small Sail, for fear

of Over-setting.

CRANK by the Ground; that is said of a Ship that cannot be brought on the Ground, without danger of Overthrowing her.

CREEK, is a finall Bay, or

Nook, by the Shore.

CRENCLES, in a Ship, are small Ropes, spliced into the Bolt-Ropes of the Sails of the Main mast, add Fore-mast: They are fasten'd to the Bow-line-

Bridles;

Bridles; and are also to hold by, when a Bonnet is shaken off.

CREW, Ship's Crew, or Boats's trew; that is, the Seamen belonging to a Ship, or Boat. There are also in a Ship, several particular Crews, or Gangs; as the Gun-Room Crew, belonging to the Gunner; the Carpenters Crew, &c.

CROSS-Barr-Shot, is a great shot, or Bullet, with a Barr of

Iron put thorow it.

Yard, flung at the upper-end of the Misen-mast, under the Top. It has no Halliards, nor Ties, belonging to it. Its Use is, to spread and hale out the Misentop-sail Sheats.

of Timber, going a-cross the Bolts of a Ship: To this the Cable is belay'd, when the Ship

Rides an Anchor.

CROSS-Staff, or Fore-Staff, is an Instrument, made commonly of Box, or Pear-tree, with Siding Vanes: 'Tis used at Sea, for taking the Altitude of the Sun, or Star, &c. in order to find the Latitude.

CROSS-Trees, in a Ship, are four Pieces of Timber, bolted, and let-in to one another a-cross, at the Head of the Mast: Their Use is, to keep and bear the Top-mast up; for the Foot of the Top-mast is always fasten'd into them: But some call only those two of these Timbers which go a-thwart Ships, the Cross-

Trees; and then, they call the others, the Tressel-Trees.

CROSS; To Ride a-cross. See

Ride.

CROSS-Tree-Yard, is a Yard, standing square, just under the Misen top; and to it the Misen

Top-Sail is fasten'd below.

or Ropes, sometimes six, eight, or ten, reev'd thorow the Deadmens-Eyes: They are scarce of any more Use, than to make a Shew of small Rigging. They are placed at the bottom of the Back-stays of the Fore-top-mast, Misen-top-mast, and Gallant-top-mast.

The Spritsail-Topsail Crow-Foot, is a Rope, divided into two, or four Portions, from the upperend of the Spritsail-Topmast, to

the the Fore-top-mast-Stay.

CRUISERS, are small Men of War, made use of, to and fro, in the Chanel, and elsewhere, to secure our Merchant-Ships, and Vessels, from the Enemies small Frigats, and Privateers: They are generally those that Sail well, and therefore are commonly well Mann'd: And indeed, the Sasety of the Trade in the Chanel, and up and down the Soundings, and other Places, does absolutely require the constant keeping out of such Ships at Sea.

the Bulk-heads of the Fore-Castle, and the Half-Decks; wherein there are placed Murdering-Pieces, &c. to Clear the Bbb 4 Decks,

Decks, fore and aft, upon Occa-

CUDDY, in Great Ships, is a Place lying between the Quarter-Deck, and the Captain-Lieutenant's Cabin, under the Poop; and is divided into Partitions, for other Officers.

CULVER-TAIL'D, fignifies, the fasting, or letting of one Timber into another, so that they cannot slip out; as the Garlings, into the Beams of a Ship.

CUN, or CUNNING, the same with Good; which see.

CURRENTS, are the impetuous Motions of the Waters, which in certain Latitudes run and set on particular Points of the Compass: And commonly, their Force is conformable to the Course of the Moon; so as to be more rapid, or strong, when She is in the Change, or at Full; and more weak, in her Wain.

cut a Feather: If a Ship has too Broad a Bow, 'tis common to say, She will not Cut a Feather; that is, She will not pass thro' the Water, so swift, as to make it foam, or froth.

the Head, is the Sharpness of the Head of the Ship, below the Beak: And is so called, because it Cuts, or Divides the Water, before it comes to the Bow.

D

DAILE, is the Trough wherein the Water does run over the Decks.

DAVIS's Quadrant. See Back-

Staff.

DAVIT, in a Ship, is a short Piece of Timber, with a Norch at one end, wherein, by a Strap, hangs the Fish-Block. The Use of this Block, is to help up the Fluke of the Anchor, and to fasten it at the Ship's Bow, or Looff. The Davit is shiftable from one side of the Ship, to the other, as there is Occasion.

DEAD-MENS-EYES, are Blocks with many Holes, but no Shivers: Thro' them the Lanniers go, which make fast the Shrowds, below the Chains. And sometimes the Main-stays are set taught, by these Dead-Mens-Eyes, and Lanniers. Thro' these, also, the Crow-Feet do reeve.

DEAD-RECKONING, at Sea, is that Estimation, Judgment, or Conjecture, which the Seamen have of the Place where the Ship is, by keeping an Account of her Way, or Distance Run by the Log; by knowing the Course they have Steer'd, by the Compass; and by Rectifying all, with Allowance for Lee-way, Currents, &cc. with Consideration of the Ship's Trim, &c. So that this Reckoning, is without any Observation of of the Sun, or Stars; and is to

be rectified, as often as any good Observation can be had.

DEAD-RISING, is that part of a Ship which lies aft between the Keel and the Floor-Timbers, next adjoining to the Stern-Post, under the Bread-Room in a Ship of War.

DEAD-ROPES, are fuch as

does not run in any Block.

DEAD-WATER, is the Eddy-Water just a-stern of a Ship; and is so call'd, because it does not pass away so swift, as the Water running by her Side does.

A Ship makes much Dead-Water; that is, She has a great

Eddy following her Stern.

Floor from Stem to Stern, whereon the Guns lie; and on which the Men Walk to, and fro. Great Ships have Three Decks, First, Second, and Third, beginning to account from the Lowermost.

Half-Deck, reaches from the Main-mast, to the Stem of the

Ship.

Quarter-Deck, is that aloft the Steerage, reaching to the Roundhouse.

Flush-Deck, is that which lies even in a Right-Line, fore and aft, from Stem to Stern.

Cambered-Deck, is that which lies compassing; and is by no means proper for a Man of War.

DECLINATION of the Sun, or Star, is in an Arc of a Great Circle, intercepted between the Sun, or Star, and the Equi-

notial: And is easily found by

PROPORTION;

As the Radius, or Sine of 90 Degrees,

To the Sine of the Sun's greatest

Declination:

So is the Sine of the Sun's Equinochial Distance,

To the Sine of the Sun's present

Declination.

When an Observation of the Sun's Meridian Altitude is made, in order to find the Latitude of the Place; The Sun's Declination also must be known; as usually, and readily, by means of Tables carefully Calculated for that Purpose; such as those in Mr. Jones's Treatise of Navigation, Edit. 2d.

DEEP - SEA - LINE, or Dip-Sea-Line, is a small Line, to Sound with, some 150 Fathom long; with a long hollow Plummet at the Head, and Tallow put into it, that will bring up any Gravel, Stones, Sand, Shells, and the like, from the Bottom; and to know the Differences of the Ground: Which having bin before Discover'd by other Observations, and Entred into their Books; they guess, by their Soundings, what Coast they are upon, tho' they cannot see Land. If it happens that no Ground come upon the Tallow, they conclude, they are upon Ouzie-Ground: Which they Discover again, by Sounding with a Wollen-Cloth

upon

Ground will be brought up. This Line is first mark'd at 20 Fathom; and afterwards encreased, by 10's, to the End; distinguished by so many small knots upon each little String, that is fix'd at the Mark, strow the Shrowds, or midst of the Line; shewing it is so many times 10 Fathom de p, where the Plummer does rest, from drawing the Line out of One's Hand. Tis used only in Deep Waters, when the Seamen think they approach the Shore.

Tendency of a Ship from the grue Courfe, by reason of Cur-

her right Way.

DEGREE, the 360th Part of the Periphery of a Circle. See

Mercator's Chirt.

DEPARTURE, in Navigation, is the nearest Distance between any two Meridians, counted on the Parallel of Latitude; shewing how far one Place is to the Eastward or Westward of another, in Degrees, or Miles, proper to the Parallel of Latitude.

Mavigation, is the nearest Distance of any two Parallels of Latitude; shewing how far one Place is to the Northward or Southward of another: And it never exceeds 180 Degrees. See

Latitude.

or Meridional Distance, in Navigation, is the Distance on the Equinostial, which is contain'd

Ground will be brought up. This two Places; shewing (in the Line is first mark'd at 20 Fathom; Equinoctial) how far the Meriand afterwards encreased, by 10's, dian of one Place is to the East-to the End; dislinguished by so ward or Westward of the Merianny small knots upon each little dian of another.

a Ship passes out of the Mouth of some great Gulf, or Bay, they call it Disemboguing. Also, 'tis said of a River, That at such a Place, or after it has run so many Leagues, it Disembogues it self into the Sea. Thus, the Volgo Disembogues it self into the Caspian; and the Danube, into the Euxine-Sea.

DISTANCE Run, in Navigation, is the Number of Miles, or Leagues, that a Ship has failed from any given Point. 'Tis usually found by the Lig-Line; which see.

Meridional Distance. See Me-

ridian.

DIVISION, is the Third Part of a Fleet of Men of War: But fometimes 'cis the Ninth Part; which happens, when the Fleet is Divided into Three Squadrons; for then each Squadron is distributed into Three Divisions. As 'twas practis'd by the Fleets of England and France, jointly, in the Years 1672, and 1673: The English Fleet form'd Two Squadrons, the Red, and the Blue, each diffributed into Three Divifions: The French Fleet, which form'd the White Squadron, was also distributed into Three Divisions.

In a Sea-Engagement, the Order of Battle, is, To place in one

Line

Line, all the Squadrons, and all the Divisions of the Side: And this Order is kept, as long as Wind, Valour, and Fortune, will permit. See Engagement.

DOCK, is a Pit, Pond, or Creek, by the Water-fide, made convenient either to Build, or Repair Ships in: And is either,

Dry-Dock, where the Water is kept out, by great Flood-Gates, till the Ship is Built, or Repair'd; then the Gate is open'd, and the Water let in, to Float, and Launch her.

wet-Dock, a Place where the Ship may be haled into, out of the Tide's Way, and so Dock her self, or Sink her self a Place to lie in.

DOCK-YARD3, are the Magazines of all forts of Naval-Stores: The Principal one's, are those at Ghatham, Portsmouth, Plimouth, Woolwich, Deptford, and Sheerness. In Time of Peace, Ships of War are laid up in these Docks: But the Biggest, and greatest Number of the Biggest Ships, are lodged at Chatham; where, and at other Yards, they receive, from time to time, such Repairs as are necessary.

These Tards are generally supplied, from the Northern Crowns, with Hemp, Pitch, Tar, Rosin, and several other Species: But as for Masts, particularly those of the Largest size, they are brought from New England.

How much it imports the Good of the Public, to keep those Magazines constantly replenish'd,

every One is ab'e to judge: And And it were much to be wish'd, the Improving the afore-mention'd Commodities in our English Plantations, might meet with all possible Encouragement; lest, one time or other, it may prove difficult to get them elsewhere. It is reasonable to think, such an Undertaking will put the Nation to some Considerable Charge, e're it be brought to Perfection; but when so, many are the Advantages that will arise from it.

DOGGAR, is a Small Ship, built after the Dutch Fashion, with narrow Stern; they carry commonly but one Mast.

DOMESTIC-Navigation, is, Coasting, or Sailing along the Shore; in which, the Lead, and Compass, are the chief Instruments.

DOUBLE the Cape, or Point; that is, to Come up with it, Pass by it, and so leave it behind.

DRABLER, a small Sail in a Ship; being the same to a Bonnet, that a Bonnet is to a Course; and is only used, when the Course and Bonnet are too Shoal to Cloath the Mast.

DRAGS: Sea-Drags, are whatever hangs over the Ship, in the the Sea, as Shirts, Coats, or the like: And Boats, when Tow'd, or whatever else, that, after this manner, may hinder the Ship's Way, when she sails, are call'd Drags.

DRAUGHT

DRAUGHT of a Ship, is so many Feet as she Draws; that is, as she sinks into the Waters. So that if a Ship sink into the Water 18 Feet Perpendicular, she is said to Draw 18 Feet Water: And therefore her Draught is said to be more or less, as she Draws more or less Water.

DRIFT, at Sea: Any thing that floats upon the Water, is is said to Run a Drift.

DRIFT-SAIL. See Sail.

DRIVE: A Ship Drives, when an Anchor being let fall, will not hold her fast; but that she sails away with the Tide, or Wind. The best Help, in this Case, is to let fall more Anchors, or to veer out more Cable; for the more Cable she has out, the safer she rides.

The Skip Drives to Leeward, is usually said of a Ship that lies

a Hull, or a Try.

DRIVE-BOLTS. See Bolts. DRY-DOCK. See Dock.

Arm, is a Way of Punishing Sea-Offenders: And is perform'd thus; The Malefactor has a Rope fasten'd under his Arms, about his Middle, and under his Breech; and so is hoisted up to to the End of the Tard; from whence he is violently let down into the Sea, sometimes twice, sometimes three several times, one after another.

And if the Offence be very great, he is also drawn underneath the very Keel of the Ship; the which they call Keel-Haleing,

or Keel-Raking.

The Criminal being under-Water, a Great-Gun is fired right-over his Head; as well to aftonlih him the more, as to give Warning to all Others, to Look out, and Beware.

Other Punishments there are, at Sea; as particularly those at the Feer-Capstan, and Bilboes.

That at the Capstan, is, when a Capstan Barr being thrust thro' the Hole of the Barrel, the Offender's Arms are Extended at the full length, cross-wife, and so Tied unto the Barr; having, sometimes, a Basket of Bullets, or some other-like Weight, hanging by his Neck: In which Posture he continues till he be either brought to Confess some Plot, or Crime, whereof he is Suspected; or that he has Suffered, what he is Censured to Undergo, at the Discretion of the Captain.

The Punishment by the Bilboes, is, when an Offender is laid in Irons, or in a kind of Stocks, that they use for that Purpose; and which are more or less Ponderous, as the Quality of the Offence is, which he is

Guilty of.

DUCK-UP, is a Term used by the Steer's-man, or Man at Helm, when either Main-sail, Fore-sail, or Sprit-sail, hinders his seeing to Steer by a Land-Mark: And then his Word is, Duck-up the Clew-Lines of those Sails! that is, Hale the Sail out of the Way!

Alfo,

Also, When a Shot is made by a Chace-Piece; if the Clew of the Sprit-sail hinders the Sight; then they call, Duck-up the Clew-Lines of the Sprit-Sail!

E

The Bolt-Rope, which, at the four Corners of the Sail is left open, in the shape of a Ring: The two Uppermost parts are put over the Ends of the Tard-Arms, and so the Sail is made fast to the Yard: And into the Lowermost Earings the Sheats and Tacks are seiz'd, or bent at the Clem.

EASE! That is, Make more

S'ack! or, Let go Slacker!

Ease the Bow-Line! or, Ease the Sheet! That is, Let it be

be more Slack!

the Ship go more Large; or more before the Wind; or more Larboard.

EAST, is One of the Four Cardinal-Points of the World; and is that Point of the Horizon, where the Sun is seen to Rise, when 'tis in the Equinoclial: So that when the Sun Rises due East, it makes Equal Days and Nights over all the World.

of the Horizon, intercepted between the Point of the Sun's Rising, and the East-Point of the

Magnetic-Compass.

EASTERN-Hemisphere. See Hemisphere. EASTING. See Departure.

EBB; is the Reflux of the Sea, when the Water begins to. Fall: And according to its several Degrees of Ebbing, 'tis diffinguish'd into Quarter-Ebb, Half-Ebb, Three-quarter-Ebb, Low (or Dead-Low) Water.

where the Water runs back, contrary to the Tide; or, which hinders the free Passage of the Stream, and so causes it to Re-

turn again.

EDDY-Wind; is that which returns, or is beat back, from a Sail, Mountain, or any thing that may hinder its Passage.

EDGE in with a Ship; is said of a Chase, that is making up to

him.

END for End: When a Rope runs all out of the Block, that it is unreev'd; they say, 'Tis run out End for End.

The Cable at the Hawse is run out End for End; that is, the Cable, or Hawser, is all run out

at the Hawse.

ENGAGEMENT, Sea-Engagement: Whenever a Fleet of Men of War is Engaged, whether to Give, or to Take Battle, with another every way Equal unto it; then every Squadron of such Fleet does usually Order and Subdivide it self into Three Equal Divisions; with a Reserve of certain Ships out of every Squadron, to bring up their Rear. And every one of these, ohserving a due Birth, and Distance, are, in the Engagement, to Second

one another: And the better to avoid Confusion, and Falling-foul on one another; to Charge, Discharge, and Fall off by Threes, or Fives, more or less, as the Fleet, in Gross, is greater, or smaller. The Ships of Reserve, being to be instructed either to Succour and Relieve thole that be any Way Engaged, and in Danger; or to Supply, and put themselves in the Place of Those that shall be made Unserviceable. This is the Order and Course to be constantly Kept, and Obferved, during the whole Time of Battle.

If the Fight should continue, even within the Nihgt; it may well be maintain'd, and kept. in this very Order, if to be that every Ship do but carefully heed the Admiral of his particular Squadron, by his Light; and withal, his Leading Ship, that is next before him; that fo, when the Admiral falls off, and makes a Retreat, for the prefent, upon fome especial Occasion; all the Ships of that Squadron may do the like; and Retire under their feveral Livisions, to Amend and Repair any thing that has bin Miscarry'd in the Fight, or to Speak and Advise with their Commanders; and so to be ready to renew the Engagement, and to Re-Charge the Enemy, according to their Instructions.

It is also carefully Observed by all Admirals, That they so Order and keep themselves, in their several Divisions, as they may best be seen and distinguish d by their whole Squadron, and that as well by Night, as Day; that so Directions may best be given, and Notice taken from, by every particular Ship of the Fleet; and the Executions of Orders, perform'd with the more Facility, and Certainty.

As for a Fleet which confifts but of few Ships, and being to fight in an open Sea, it should be brought up to Battle in one only Front, with the Chief-Admiral in the Middle of them; and on each fide of him, the strongest and best-provided Ships of the Fleet; who keeping themselves in as convenient a Diftance as they fhall be able, are to have an Eye and Regard, in the Fight, to the Weakest and Worst Ships of the Party; and to Relieve, and Encourage them, upon all Occasions; and withal, being near the Admiral, may both Guard him, and aptly receive Initructions from Him.

ENSIGNS; are the Colours placed in the Sterns, or Poops, of Ships: And there are few Ships, whether Men of War, or Merchants, but have their Ensigns. Their chief Use, is, That when any strange Ships meet at Sea, or make into any Harbour; by heaving out the Colours in the Poop, that is, putting these Ensigns abroad, of what Part, and Country they are.

Thus the English heave out their Colours, with St. George's-

Gross

Grofs in it; the Scotch, with St. Andrew's; and so all other Countries, with some peculiar Distinction, whereby they may be known. And these Ensigns ferve for various other Ules, too many here to enumerate.

Flags.

ENTRING-LADDERS, in a Ship, are of two lorts; one is used by the Ship's Sides, in a Harbour, or in Fair-Weather, for Persons to go in and out of the Ship. The other is made of Ropes, with finall Staves, for Steps; and is hung out of the Gallery, to enter into the Boar, or to come aboard the Ship from thence, when the Sea runs fo high, that they dare not bring the Boar to the Ship's Side, because of the danger of staving her.

ENTRING PORT :. See Ports.

ENTRING-ROPES See Ropes.

ENTRING a Ship, the same with Boarding a Ship; which fee.

EQUATOR ( on the Earth, ) or Equinoctial (in the Heavens,) is that great Circle, whole Poles are those of the World; and which is supposed to Divide the Globe into Two Equal Parts, call'd the Northern and Southern Hemispheres. This Circle passes thro' the East and West Points of dian, that is, in 24 Hours:

the Horizon: Therefore, at the Mendian is raifed as much above the Horizon, as is the Complement of the Latitude of the Place.

All the Stars which are under this Circle, that is, fuch as have no Declination, do always Rie due East, and Set due West. And the Sun, when 'tis faid to come to this Circle, makes Equal Days and Nights all round the Globe; for then he is faid to Rife due East, and Set due West; which he does at no other Time of the Year.

Those that live under this Circle, have their Days and Nights Equal: And the Sun, at Noon, is in their Zenith, and therefore casts no Shadow.

The Declination, or Latitude, is reckon'd on the Meridian, from this Great Circle, either North or South: And those Circles which are suppos'd to run thro each Degree of Declination, or Latitude, are call'd Parallels of

Declination, or Latitude.

The Equinoctial, or Equator, is supposed to be Divided into 360 Equal Parts, or Degrees : But a Natural Day, is Measur'd by the Revolution of the Equinoctial; and is ended, when the same Point of the Equinoctical comes again to the lame Mess-

Therefore each Hour must be 360, or 15 Degr. Of the Equator: Of Time :

360 or 15 deg. 00 m. 16 01 Hour, 00 m. or deg. 00 m, 15 00 b. 04 m. 00 deg. 15 m. 15 00 h. 01 m. 00 deg. 01 m. is 4 Seconds of Time.

EYE of the Anchor; is the Hole wherein the Ring of the Anchor is put into the Shank.

EYE of the Strap; is the Ring, or Round, which is left of the Strap, to which any Block is feiz'd.

FACK; is one Round of any out of the way.

FADDOM, or Fathom; a Measure containing 6 Feet,

much us'd at Sea.

FALL; is that part of the Rope of a Tackle, which is

hal'd upon.

FALL off: When a Ship under Sail, keeps not so near the Wind, as the thou'd do; the

is faid to Fall off.

FALL not off! A Word of Command, from him that Con's the Ship; fignifying as much as, Keep the Ship near the Wind! See Con'd.

LAND-FALL. See Land.

FALLS: A Ship that has Rilings in some part of her Decks, more than other, is faid to have Falls.

FALSE-KEELS. See Keel. FALSE-SHEAT. See Sheats. FALSE - STEM. See Stem.

FARTHEL; the same with

Furl: Which fee.

FASHION-PIECES; are two Pieces of Timber ariting from the Handle is a Fidd, or made Stern-Post, and describing the Taper-wise. Ereadth of the Ship, at the

Stern, and are the outermost Timbers thereof; to which are fasten'd the Planks that reach to the after-end of the Ship.

FATHOM; the same with

Faddom: Which fee.

FAT; fignifies the same with Broad. So a Ship is said to have a Fat-Quarter, if the Trushing in. or Tuck of her Quarter under-Water, be deep.

FEATHER; Cut a Feather:

Which fee.

FEAZING; fignifies, the ravelling out of any Great-Rope, or Cable, at the End.

FEND, imports the same as

Defend.

Fending the Boat; is, saving it from being dash'd against the Rocks, Shore, or Ship's-fide.

FENDERS; are Pieces of old Hawfers, Cable-Ropes, or Billets of Wood, hung over the Ship's-fides, to keep other Ships from rubbing against her, and bruifing her.

FEND - BOLTS. See Bolts.

FETCH him up, that is, to give Chase, or to Pursue a Ship, at Sea.

FIDD; is an Iron or Wooden-Pin, to splice and fasten Ropes together: 'Iis made Taperwife, and fharp at one end. And that Pin in the Heel of the Topmast, which bears upon the Chesse-trees, is call'd also, a Fidd.

FIDD-Hammer; is that whose

FIGHTING-Sails. See Sails.
FIGHTS; are the Waste-Cloths which hang round about a Ship, in a Fight, to secure the Men from being seen by the Enemy.

Bulk-heads, fore and aft the Ship; put up, for the Men to stand secure behind, and Fire on the Enemy, and Scoure the Decks, in case of Boarding.

RUNNING - FIGHTS; are those Sea-Fights where the Enemy do not stand the Battle, but are continually Chased. these Sea-Fights, we might give several Instances; and particularly, that off Cape-Barfleur, between the English Fleet, under Admiral Ruffel, (now Earl of Orford; and the French Fleet, under Monfieur Tourvile: The Fight began on the 19th of May, 1692. about Half-an-Hour after Eleven in the Morning; And Monsieur (in the Royal Sun) flood it for about an Hour and an half; and then Tow'd off, and to made a Running-Fight of it: But being Chaled for some Days, was forced to Run a shore at Cherbrooke; where He ( of 110 Guns, ) and Two more, of 104 Guns each, were Burnt; as also Thirteen at La-Hogue, by Sir George Rooke, (then Vice-Admiral of the Blue, ) viz. one of 90, two of 80, four of 76, four of 60, and imo of 56 Guns

FIRE - SHIPS; are Veffels Charg'd with Artificial Fireworks; who having the Wind of an Enemy's Ship, Grapples her, and fets her a-Fire.

FISH; is a Plank, or Piece of Timber, fasten'd to a Ship's Mast, or Yard, to strengthen it.

To Fish a Mast, or Yard; is, to fasten Planks, or Pieces of Timber, to it; which is done, by nailing them on with Iron-Spikes; and Would them, that is, winding Ropes hard about them.

FISH - BLOCK. See Block.

FLAGS; are the Colours that the Admirals of a Fleet carry on their Tops; and are Marks of Distinction, as well of Officers, as Nations. The Admiral in Chief, carries it on his Muin-Top; the Vice-Admiral, on the Fore-Top; and the Rear-Admiral his, on the Misen-Top. When a Council of War is to be held at Sea; if it be on-board the Admiral, they hang a Flag in the Main-Shrowds; if in the Vice-Admiral, in the Fore-Shrowds 3 it in the Rear-Admiral, in the Milen-Shrowds.

FLAG - OFFICERS; those who Command the several squadrons of a Fleet, such are, the Admirals, Vice-Admirals, and Rear-Admirals:

To Lower, or Strike the Flag; that is, to Take in the Flag, or Pull it down upon the Cap; is a Respect due from all Ships, or Fleets inferior, whether in respect of Right of Sovereignty,

Ccc Place,

Place, or the like; expressing an Acknowledgment, and Submission, when they meet with others, any way justly their Superiors: And in the Cale of Sovereignty, in our Narrow Seas, which has bin long claim'd, and made good by the Kings of England: So that if any Ship whatfoever, ihall in any of those Parts, meet with any Admiral of England, and do not acknowledge this Sovereignty; by Taking inher Flags; the may, and is to be treated as an Enemy. And, in a Fight, to Lower, or Strike the Flag, is a a Token of Tielding.

To Heave out the Flag; that is, to Put out or Put abroad the Flag.

The FLAGS of all States and Nations, according to the best Accounts, are as follow: The Names of Places, being in an Alphabetical Order.

FLAG of Algier, in Barbary; is Red, and Hexagonally cut, charg'd with a Turk's-Head and Turban.

FLAG of Amfterstam, in Holland; confists of Three Bands, or Cloths; the Uppermost Red, the Lowermost Black, and the Middlemost White; which has therein the Arms of Amsterdam: Bearing Gules, a Pale Sable, charg'd with three Saltiers, (or St. Andrew's-Cross) Argent, with an Imperial Crown for a Crest, and supported by two Lions Sable.

FLAG of Bergen, in Norway;

\* 2 2 2 1 A

is Red, travers'd with a Cross Argent, charg'd in the Middle with a Soutcheon, bearing Argent, a Lyon Gules, holding a Sword Azure, with a Hilt Sable in the Right-Paw, and surrounded with a Garland of two Green Branches.

FLAG of Bremen, in Lower-Saxony s confifts of Nine Bands, viz. Five Red, and Four White s charg'd, near the Flag-staff, with a Pale Checker'd Argent and Gules.

FLAG of Brandenburg; is White, charg'd with an Eagle Gules, holding a Sword Aqure, with a Hilt Sable, in the Right-Tallon; and a Scepter Or, in the Left.

Another FLAG of Brandenburg; confists of seven Bands, four White, and three Black; charg'd with a Scutcheon, bearing Argent, an Eagle Gules.

travers'd with a Saltier, (or St. Andrew's-Cross,) of two Ragged-Staffs Gules.

Another FLAG of Burgundy; is Blue, charg'd with the same Cross.

FLAG of Calais, in France; is Blue, charg'd, in the middle, with a Crofs Argent.

FLAG of China. The Emperor of China maintains several entire Fleets, for to secure his Trade, and Navigation, And is said, by some, to bear for Enfigns Armorial, and rlags, Argent, charg'd with three Black-amoors-Heads, placed in the bront their Bust Vested Gules: But,

according

according to others, two Dragons Sable.

FLAG of Courland; is Red, charg'd with a Crab-Fish Sable.

Another FLAG of Courland; confills of two Bands, the uppermost Red, and the lowermost White.

FLAG of Dantzic, in Prussia; is Red, charg'd, near the Flagstaff, with two Crosses Argent, one above the other, and over them a Crown Argent.

Another FLAG of Dantzic; is Red, with four Croffes Argent, two and two; and Crowns Ar-

gent.

16.24

FLAG of Denmark; is Red, but flit and travers'd with a White Cross. And the

FLAGS of Danish Merchant-

Ships, are Square.

FLAG of Dunkirk, in Flanders; confifts of fix Bands intermingled, three Blue, and three White one's.

FLAG of Elbing, in Prussia; confifts of two Bands, the uppermost White, with a Cross Gules; the lowermost Red, with a Cross Argent.

FLAG of Embden, in Westphalia; confills of three Bands, which are Yellow, Red, and Blue.

FLAG-Royal, or Standard-Royal of England; ought to be Tellow (viz. Or,) according to some; But others will have it, White (or Argent : ) 'Tis charg'd with a Quarter'd Scutcheon of England, Scotland, France, and Leland. 'Tis never carry'd but his High-Admiral, or Contmiffion.

Another FLAG-Royal of England, is Quarterly: The First. and Fourth Quarter Counterquarter'd; In which the first and fourth Azure, Three Flowerde-Luces Or; The Royal Arms of France, Quarter'd with the Imperiat Enfigns of ngland, which are in the Second and Third Gules, Three Lions P. Mant Gardant in Pale Or. In the Second Place, within a double Treffure Counter-Flower-de-Luce Or, a Lion Rampant Gules, for the Royal Arms of Scotland. In the Third place, Aqure, an Irish-Harp Or, String'd Argent, for the Royal-Enfigns of Ireland. But sometimes 'tis altered; as in letting the English Arms before the French, and the like.

UNION FLAG of Ergla d; is Gules, charg'd with these words FOR THE PROTESTANT RELIGION, AND FOR THE LIBERTY OF ENGLAND.

FLAG of the Admiral of England; is Red, charg'd with an Ancher Argent, fet in Pab, entangled in, and wound about with a Cable of the fame.

JACK-FLAG of In land 3 is Blue, charg'd with a Saltier Argent, and a Cross Gules, border'd

Argent

FLAG of an English Merchant-Ship; is Red, and a Franc-quarter Argent, charg'd with a Crois Gules.

FLAG of Flanders, confifts of by the Sovereign Prince, or Three Bands, the Uppern oft CCC 2 Red,

Red, the Lowermost Yellow, and the Middlemost White; which is charg'd with a Saltier, (or Saint Andrew's Cross) of two Ragged-

Staffs Purple.

JACK - FLAG of Flanders; is Yellow, charg'd with a Lion in an Orl Sable, fet in a Scutcheon fortify'd with Eight Flower-de-Luce; and adorn'd above with Three Flower-de-Luce, Sable.

JACK-FLAG of Flushing, in Zeland; is Red, charg'd with an

Urn Crown'd Argent.

FLAG-Royal of France; is White, seme with Flower-de-Luce Or , and charg'd with the Arms of France: Which bears Azure, three Flower-de-Luce Or, two in Chief, and one in Base, The Scutcheon is environ'd with the Collars of the Order of St. Micharl and the Holy Ghoft: For Crest, an Helmer entirely open, whereon a Crown clos'd, after the manner of an Imperial Crown, with Eight inarched Rays, top'd with a Double Flones-de-Luce: The Supporters are, two Angels habited as Levites.

FLAG of the Admiral of France: Where the Admiral of France is a board in Person, a White Flag is set upon the Main-top-most-

bead.

FLAG. Royal, or Standard-Royal of the French Galleys; is Red, set with Flower-de-

Luce Or.

FLAGS of the French Merchant-Ships; Their Ensigns, sometimes are Blue, travers'd with a White Cross, and the King's-

Arms-upon the Whole: Or any other Distinction as shall be thought proper; provided their Ensigns be not all White.

FLAG of Genoa; is White,

travers'd with a Cross Gules.

FLAG of Hamburg, in Lower-Saxony; is Red, charg'd with a large Tower Argent, and three Turrets the same, at the Top.

Another FLAG of Hamburg ?
Red, charg'd with three Towers
Argent, placed one and two, at

equal diftance.

FLAG of Holland; confifts of Three Bands; The First Orange, the Second Woite, and the Third Blue.

Another FLAG of Holland, has twice as many Bands as the former; that is, two of each Colour.

Another FLAG of Holland, has Nine Bands; that is, thrice as many as the first, and three of each Colour.

JACK-FLAG of Holland, is like that of the States General,

but without a Scutcheon.

FLAG of Hoorn, in Holland; confifts of Three Bands, the Uppermost and Lowermost Red, the Middle White; whereon is placed a Horn Gu'es, garnish'd with Hoops Or, and hung by a String Gules.

FLAG of Japan; is faid to be Sable, with three Trefoils Ar-

gent.

Another FLAG of Japan shearing Or; fix Stars Argent, in an Oval Shield, border'd with little Points of Gold.

FLAG

FLAG of Ireland; is White, charg'd with St. Andrew's Cross.

FLAG of Legorn, in Tuscany; is White, charg'd with a Cross

Gules.

FLAG of Lubec, in Lower-Saxony; confifts of Two Bands, the Uppermost White, and the Lowermost Red.

FLAG of Malta; is White, charg'd with the Cross of Malta, that is, a Cross with Eight Points

Red.

Another FLAG of Malta, is Red, travers'd with a Cross

Argent.

FLAG of Middleburg, in Zela d; confifts of Three Bands, which are, Red, Woite, and Telliw.

Another FLAG of Middleburg; is Red, charg'd with a Tower

Embattl'd Or.

FLAG of the Great Mogul; is said to be Argent, Semè with Be-

lants, Or.

FLAG of Miscory; confists of Three Bands, the Uppermost White, the Lowermost Red, and the Middlemost Blue; which is charg'd with an Eagle display'd Or; bearing on its Breast a Shield Or; charg'd with a Cavalier Argent fighting a Dragon: with a Royal Crown over the Heads.

Another FLAG of Muscouy; confifts of Three Bands, of the same Colour with the former; travers'd with a Saltier (or St. Andrew's Cross ) Aquee.

Another FLAG of Muscovy; is Quarter'd by a Cross Azure: the First and Fourth Quarter Ar-

gent; the Second and Third

Gules.

FLAG of Naerden, in Holl and ; is Blue, charg'd with three

Stars Or.

FLAG of Nanquin, in China: The Junks of Narquin, carry on their Main-top-mast-head a Red and White Flag; and on the Fore-top-mast, a Red Flag: They carry also Gray, Blue, Red, and White Enfigns; as alfo, two Purple Facks, with Red, White, and Blue Pendants.

FLAG of Oftend, in Flanders; confifts of two Cloths, or Bands; the Uppermost Red, and the

Lowermost Tellow.

FLAG of Poland, is Red, chirg'd with an Arm coming out of a Cloud Azure, dress'd to the Elbow with White Cloth, and a Ruffle Or; holding in the Hand a Naked Sword Argent, and Hilt Sable.

FLAG of the Pope; is Woite, charg'd with the Image of St. Peter, and St. Paul : Trat of St. Peter, holding in his Right-Hand two Keys placed in Saltier, and a Book in his Left-Hand: That of St. Paul, holding a Book in his Right, and a Sword in his Left-Hand.

Their Pendants confift of three Bands, one White, one Tel-

low, and another Red.

FLAG of Port-a Port, in Portugat; has Eleven Bands, viz. Six Green, and Five White.

FLAG of Portugal; is White, charg'd with the Arms of Portugal: Which bears Argent, five Scutcheons Ccc 3

Scutcheons Azure, placed crosswise, each charg'd with as many Besants of the first placed in Saltier and pointed Sable: The Shield border'd Gules, charg'd with seven Towers Or; three in Chief, and two in each Flanch. The Crest is a Crown Or.

Another FLAG of Portugal; is White, charg'd with an Armillar Sphere Or, fet on the Globe of the World Aqure, with an Horizon Or, and a Purple Cross

above.

Another FLAG of Portugal, is White, charg'd with a Purple Armillar Sphere, with a Cross Gules on each fide, and one of the same above: And placed upon a Globe of the World Azure, with an Horizon Or.

Another FLAG of Portugal; is White, charg'd, towards the Flag-staff, with the Arms of Portugal; and in the middle, with a Purple Armillar Sphere, set on the Globe of the World Azure, with an Horizon Or; and above, a Cros Gules, sustain'd by a Pillar Or: And towards the end, is placed a Monk dress'd in Black, with a Cross Gules in the Right-Hand, and a Chaplet of Beads in the Left.

The fe Portugueeze Ships, that go to their Indies, carries one of

the three last Flags.

FLAG of Ragusa, in Dalmatia, is White, charg'd with a Scutcheon, with this word, LIBERTAS.

FLAG of Revel, in Livonia; confists of fix Bands, that is, three Waite, and three Blue ones.

FLAG of Rostoc in Lower-Saxony; confists of three Bands, the highest Blue, the middle Whire, the lowermost Red.

FLAG of Savoy; is Red, Quarter'd by a Cross Argent, within which, these four Letters, F. E. R. T. are placed, one in each, signifying, Fortitudo Ejus Rhodum Tenuit.

Another FLAG of Savoy, is White, charg'd with the Image

of the Nostre-dame.

FLAG of Schelling, and Fly, in West-Friezland; consists of Ten Bands, or Cloths, which are, beginning from the uppermost, Red, White, Blue; Red, Blue, Tellow; Green, Red, White, and Blue.

FLAG of Scotland; is Blue, with a Franc-quarter Argent,

charg'd with a Cross Gules.

Another FLAG of Scotland; is Red, with a Franc-quarter Azure, charg'd with a Saltier, (or St. Andrew's Cross.)

FLAG of Sicily; is White,

charg'd with an Eagle Sable.

FLAG of Spain; is White, charg'd with the Coat of Arms of Spain: Which is Quarterly; The first Quarter Counter-quarter'd: In the First and Fourth Gules, a Castle Tripple-Tower'd Azure, (for Castile.) In the Second and Third Argent, a Lion Passant Gules, Crown'd, Langued, and Arm'd Or, (for Leon. In the Second great Quarter Or, four Pallets Gules, (tor Arragon:) Party Or, four Pallets also Gules, betwirt two Flanches

Flanches Argent, charg'd with as many Eagles Sable, Member'd, Beak'd, and Crown'd Aqure, (for Sicily.) These two great Quarters grafted in Base Argent, a Pomegranate Verte, Stalk'd, Leav'd of the fame, Open'd, and Seeded Gules, (for Granada.) Over all Argent, five Scutcheons Azure, placed cross-wife, each charg'd with as many Befants in Saltier, of the first (for Portugal.) The Shield border'd Gules, with feven Towers Or, (for Algarve.) In the Third Quarter, Gules, a Fesse Argent, (for Austria,) Coupie and supported by Ancient Burgundy, which is Bandy of fix Pieces Or and Azure, border'd Gules. In the Fourth Great Quarter, Azure, Seme of Flower-de-Luce, Or ; with a Border Compony Argent and Gules, (for Modern Burgundy; ) Coupe Or, supported Sable, a Lion Or, (for Brabant.) Thefe two great Quarters charg'd with a Scutcheon Or, a Lion Sable, and Langued Gules, (for Flanders. ) Party Or, an Eagle Sable, (for Antwerp.) Crest, a Crown Or, rais'd with Eight Diadems, or Semi-circles, terminating in a Mond Or. The Collar of the Golden-Fleece encompaffes the Shield; on the fides of which is placed the two Pillars of Hercules, one on each fide, with this Motto, PLUS ULTRA.

Another FLAG of Spain; is White, charg'd with a Scutcheon Quarter'd; the first and fourth

Azure: The second and third Argent, a Lion Passant, Gules, Crown'd, Langued, and Arm'd Or.

FLAG of Stetin, in Opper-Saxony; confifts of two Bands, the uppermost White, charg'd with a Billet, (that is, the Form of a Letter folded up) Gules; and the lowermost Red, charg'd with a Billet A gent.

FLAG of Stralfund, in Pomerania; is Red, charg'd with a

Sun Or.

FLAG of Sweden; is Blue, flit, and travers'd with a Cross Or.

FLAG of the Turk; is Verte, charg'd with three Crescents (dr Half-Moons) Argent, with

their Points inward.

Or, according to some, 'tis Red, charg'd with three Crefcents Argent: A d sometimes only one; and Crested with a Turban, charg'd with three Black Plumes of Herons Quills, with this Motto, DONEC TOTUM IMPLEAT ORBEM.

And this is never carried but by the Grand-Si nion himfelf, or by his Commission.

Another Turkish FLAG; is Blue, charg'd with three Crefcents Argent, with their Point outwards.

Another Turkish FLAG; is Red, charg'd with three Crefcents Argent, in the same Order

with the laft.

The Turks have several other Flags, differently distinguish'd; but their Colours are always Red, Ccc 4 White,

White, or Green: And are oftentimes charg'd with various Black Letters.

FLAG of the Turkey Galleys; is Red, and cut sharp towards

the End.

FLAG of Toscany; is White, charg'd with the Arms of the Grand-Duke; Who bears Or, five Roundles Gules, two, two, and one, and one in Chief Azure, charg'd with three Flower-der Luce Or.

Another FLAG of Tuscany; is White, charg'd with the Cross of St. Anthony, Gules, with a Bor-

der Or.

FLAG of Venice; is Red, charg'd with a Lion Wing'd, Sejant Or, holding a Cross Or in his Right Paw; and a Book open, under his Lest-Paw, with these words written, PAX TIBI, MARCE EVANGELISTA MEUS.

Another FLAG of Venice; like the former, only the Lion holds in his Right Paw a Sword Azure, with a Hilt Sable.

Another FLAG of Venice; is White, charg'd with the same

Lion.

FLAG of the States General of the United Provinces; is Red, charg'd with a Lion Or, holding with one Paw a Cutlass Argent; and in the other, a Bundle of Seven Arrows Or closely bound together, with Heads and Feathers Azure.

General; consists of Slips and Pieces, Orange and Blue, with a Cross Argent; and charg'd in the middle with a Scutcheon bearing Gules, with a Lion as beafore.

Another FLAG of the United Provinces; charg'd with thrice the Letter P. fignifying, Pugno Pro Patria.

FLAG of Zeland; confifts of three Bands, one Orange, one White, and the other Blue; on the middlemost, or White one, is placed the Arms of Zeland: Which is, Chief Or, a Lion Gules, rising out of three Waves Azure, in a Field Argent.

FLAIR: When a Ship is somewhat hous'd in, near the Water, and above that the Works hangs over too much, and therefore is laid out broader than due Proportion allowes, then 'tis said, the Work do's Flair over: And this makes the Ship more Roomy aloft, for the Men to use their Arms in.

FLAT in the Fore-Sail; that is, hale in the Fore-Sail by the Sheat, as near the Ship's Side as possible: This is done, when a Ship will not fall off from the

Wind.

FLAW; fignifies, a sudden Gust of wind.

FLIE; the same with Fly;

Which fee.

FLOOD; amongst Seamen, is when the Tide begins to come up, or the Water to Rise; then they call it Toung-Flood; the next, Quarter-Flood, Half-Flood, and Full-Sea High- (or Still-)-Water.

FLOOK

FLOOK. See Fluke.

of her Bottom, as the rests upon, when she lies upon the Ground.

FLOOR - TIMBER. See Tim-

ber.

FLOTA; a Name given by the Spaniards to the Plate-Fleet, which they fend Yearly to some

part of their West-Indies.

FLOTSON; fignifies the Goods lost by Shipwrack, which lie floating upon the Water; and are given to the Lord-Admiral, by his Letters Patent.

FLOWN-SHEATS: A Ship is faid to fail with Flown-Shears, when her Sails are not haled Home, or close to the Blocks.

The Sheats are Flown; that is, they are let loofe, or to run as

far as they will.

FLUKE, or Flook, of an Anchor; is that part of it which fallens in the Ground. See Anchor.

FLUXH - DECK. See Deck. FLUX of the Sea; that is, the

Tide of Flood, See Tide.

FLY; is that part of the Mariners-Compass, on which the 32 Winds are drawn, and to which the Needle is fasten'd underneath. See Compass.

fel with a Broad Bow; some of which carry Seven or Eight hun-

dred Tun weight of Goods.

of Command, in case of a Gust of Wind, lest the Ship should

Over set, or spend her Top-Sails and Masts, to have the Sheat go a-main, and then the Sail will hold no Wind.

FOOT - HOOKS. See Futtocks.
FORBEAR! is a Word of
Command, in a Ship's-Boat, to
hold still any Oar, either on the
Broad, or Whole Side.

FORE - CASTLE of a Ship; is that part where the Fore-Mast stands: 'Tis divided from the

rest by a Bulk-head.

FORE-FOOT; fignifies one Ship's lying or failing cross another's Way: As if two Ships being under Sail in Ken one of another, one of them lying in her Course, with her Stem so much a weather the other, that holding on their feveral Ways, neither of them altering their Courses, the Wind-ward Ship will run a-head of the other; then 'tis faid, fuch a Ship lies with the other's Fore-Foot : But as foon as the has pass'd her ahead, 'tis not said, she pass'd by her Fore-Foot; but, that the is gone out a-head.

FORE-JEER-BITS. See Bits.

FORE-LOCKS, or Fore lock-Keys; are small flat Pieces of Iron, made Wedge-like, to be put into the Ends of Bolts, to keep down the Cap-Squares of of the Carriages of Guns.

FORE - LOCK - BOLTS. See

Bolts.

FORE KNIGHTS. See Kights.

FORE-MAST of a Ship; is a large round Piece of Timber placed in her Fore-part, or Fore-Castle,

Castle, and carrying the Fore-Sail, and Fore-Top-Sail Tards: Its Length is usually sof the Main-Mast. And the Fore top-Gallant-Mast is the Length of the Fore-Top-Mast.

FORE-MAST-MEN; are those on-board that take in the Top-sails, Sling the Yards, Furl the Sails, Bowse, Trice, and take their Turn at the Helm,

Gc.

FORE-RAKE. See Rake.

FORE-REACH: One Ship is faid to Fore Reach upon another, when, both failing together, one fails better, or out-goes the other.

FORE-STAFF, or Cross-Staff; is an Instrument used at Sea, for taking the Height of the Sun, Moon, or Stars, with one's Face

towards the Object.

FORMER; is a Piece of Wood, Turn'd round, and fitted to the Bore of a Piece of Ordnance; on which are made the Cartridges, which are the due Charge of Powder for the Gun.

FOUL-SHIP; is that which has bin long Untrimm'd, fo that Grass, Weeds, Perwincles, or Barnacles, stick or grow to her

Side under Water.

The Rope is Foul; that is, the Rope is entangled in it felf, or hindred by another, so that it cannot run, or be haled.

The Anchor is Foul; that is, the Cuble is got about the

Flock.

The Ship makes Foul Water 3

that is, when under Sail, she comes into such Shole-Water, as to raise the Sand and O ze with her Way; and tho' she don't touch the Ground, yet she comes so near it, that the Motion of of the Water under her, raises the Mud from the Bottom, and so Puddleth or Fouleth the Water: Nor can the Ship then seel her Helm, as well as in Deep Waters.

To be Foul on each other; that is, when Ships come so close as to intangle their Riggings, and

endamage each other.

FOUNDER: A Ship is faid to Founder, when by an extraordinary Leak, or by a great Sea breaking in upon her, she is so fill'd with Water, that she cannot be freed of it; so that she'll neither Veer, nor Steer, but will lie like a Log; and not being able to swim long, at last will fink.

FRAIGHT of a Ship; that is her Burthen, or the Quantity

of Goods she can carry,

FREE: The Pump is said to Free the Ship, when it throws out more Water than Leaks into her: But when it cannot throw out the Water as fast as it Leaks in, 'tis said, The Pump can't Free her.

Free the Boar; that is, Bailing or Lading out the Water therein.

FRESH-SHOT; fignifies the Falling down of a great River into the Sea, so that there is Fresh-Water found in the Sea a good way from the Mouth of the

River :

River: And sometimes this happens by a Descent of Land-Waters on a sudden and as this is more or less, so 'tis call'd Great or Small Fresh-Shot.

FREST the Hawse. See Hawse.
FRIGAT; is a Ship of War,
light Built, and a good Sailer:
They commonly have Two
Decks.

Light-Frigat; is a Small Veffel of War, a good Sailer, with only

One De k.

Veffel, common in the Adriatic-Sea, with a Square Stern, and carrying only a Main, and Misen-

Mast, and a Bow-Sprit.

FURLE, (Bind, or Make up,) as to Furle the Sail; that is, to wrap up, and bind it close to the Yard: Which is perform'd, by he ling up the Braces, then wrapping up the Sail close together, and so binding it fast to the Yard with the Caskets and Furlin-Lines.

FURLING-LINES; are small Lines made fast to the Top sail, Top Gallant-sail, and the Missen-Yard-Arms to Furl up the

Sails by.

FURRING of a Ship; is laying double Planks on her Sides, after the is built, as Occasion requires: Or when a Ship's Planks are ript off, other Timbers are put upon the former Timbers, and on them other Planks; and this is done, that the Ship may bear the better Sail.

FUTTOCKS in a Ship, are

Timbers rais'd over the Keel, or the Compassing Timbers which make her Breadth.

Ground-Futtocks, are those next the Keel: The other are are call'd the Upper-Futtocks.

G

AGE: The Ship's Gage, is fo many Feet as she sinks in the Water, or so many Feet of Water as she Draws: Which Seamen find thus; By driving a Nail into a Pike, near the End; then put down this Pike by the Rudder, till the Nail cauch hold under it: For then, as many Feet as the Pike is under Water, is the Ship's Gage required.

Weather-Gage: When one Ship has the Wind or is to Windward of another, she is said to have

the Weather-Gage of her.

GALE, at Sea; fignifies the

Blowing of the Wind.

A Brick, Stiff, or Strong Gale; that is, when it blows very hard, or is to much Wind as the Topfails can just endure to bear.

blows very Brisk; and is properly that which blows prelently after a Calm, or when it

begins to quicken.

blows not so hard, but that the Ship can carry her Topsails a-Trip, (that is, hois'd up to the highest.) And the best Sailing of any, is in a Fair Loom-Gale; for then

the Ship can bear all her Sails,

and does not run fo high.

Ships are near one another at Sea, and there being but little Wind blowing, one of them finds more of it than the other; then they say, The Ship Gales

away from the other.

GALEASS, is a heavy, lowbuilt Veffel, using Sails, and Oars ; and carrying Three Masts, which cannot be lower'd, as in a Galley, viz. a Main-Mast, Fore-Mast, and Misen-Mast: They have Thirty two Seats for Rowers, and Six or Seven Slaves to each: They also have Thee Tire of Guns at the Head; the Lowermost has Two Pieces, of 36 Pounders each; the Second, Two Pieces, of 24 Pounders each; and the Third, Two other Pieces, of no Pounders each: At the Stern there are Two Tire of Guns, ea h of Three Pieces, and each Piece 18 Pounders.

the French formerly call'd their Great Ships of War; but now 'tis a word in Use only among the Spaniards and Italians: Tho', properly, the Spaniards call only those Vessels Galeons (whether Great or Small) that are Yearly sent to Vera-Cruz, in New-Spain; and if employ'd to any other Part, they are not call'd by that Name.

as it were, Balconies made on the Stern, without Board, with

with Passages into them from within: They are more for Ornament, and the Commanders Conveniency, than for any real Ue: And indeed, in Ships of War, all Open Galleries have the Inconveniency of facilitating the Boarding of the Ship that way.

GALLERY - LADDER. See

Ladder.

fel, using both Sails and Oars: They commonly carry Two Masts, viz. a Main-Mast, and a Fore-Mast; which may be Struck, or Lower'd, at Pleasure: Their Length is generally about 130 Feet; and Breadth, at the mid-

dle, about 18 Feet.

GALLIOT, is a little Gall y, or a fort of Brigantine, built very flight, and fit to Chafe; carrying but One Mast, and Two or Three Pattereroes; it can both Sail and Row, and has Sixteen or Twenty Seat; for the Rowers, with One Man to each Oar: All the Seamen on-board are Soldiers; and each has a Musket ready by him, upon quitting his Oar.

GANG, or Crew: The Company wherewith a Ship's Boat is Mann'd, is call'd that Coxswain's Gang, or Crew, who has the Charge of the Boat; as the Barge's Gang or Crew, Gc.

GANG-WAY; is the several Passages, or Ways, from one part of the Ship to the other; and whatsoever is laid in any of those Passage, is said to lie in the Gang-Way.

GAR-

Plank next the Keel on the Outfide.

GARBOARD-Strake, is the first Seam in a Ship, next the

Keel.

GARLAND, in a Ship, is a Collar of Ropes wound about the Head of the Main-Maft, to keep the Shrowds from galling cr

fretting.

GARNET, is a Tackle having a Pennant coming from the Head of the Main-Maft, with a Elock strongly seiz'd to the Main-Stay, over the Hatch-way, wherein is reev'd a Rumer, with a Hook at one End, in which is hitch'd the Slings; and at the other End is a Double-Block, wherein the Fall of the Runner is reev'd: So that by it, any Casks, or Goods, that are not over-heavy, may be haled and hois'd into, or out of the Ship. When this Garnet is not used, 'tis fasten'd along by the Stay, at the Bottom of it.

Clew-Garnet. See Glew.

GATE of the Sea, or Sea-Gate. When two Ships are aboard one another, by means of a Wave, or Billow; then 'tis usual to fay, That they lie aboard one another in a Sea-Gare.

To GATHER: At Sea, 'tis that is, We get the Wind of him.

GEAR, as, About your Gear ! that is, Work on all hands!

GIFT ROPE. See Rope.

GARBOARD-Plank, is the Girt, or has a Girding-Gira, when the Cable is so taught, or strain'd, that upon the Turning of the Tide, the Ship cannot go over it with her Stern-Post, Lut must lie a-ross the Tide's Way.

GOARING: When a Sail is cut floaping, by degrees, and is broader at the Clew, than at the Earing, 'tis faid to be cut Goaring; as all Top, and Top Gallans-

Sails, are.

GOOSE-WING. Sometimes when a Ship fails before the Wind, or with a Quarter-Wind, and in a Fresh-Gale, the Misen-Yard is unparel'd and launch'd with the Sail over the Lee-Quarter, and Guys fitted at the further End, to keep the Yard fleady; and a Biom, to boom out the Misen-Sheat: And this is done, to give the Ship the more Way; which otherwise, with these Winds, the Misen-Sails could not do; and the Sail thus fitted, is call'd a Goofe-Wing.

GRAPLINGS, or Graphels. See

Anchor.

GRATINGS, in a Ship, are finall Ledges of faw'd Planks, fram'd one into the other, like the Lettice of a Prison-Grate, lying on the Upper-Deck, between the Main-Mast and Forecommon to fay, We Gather on him; Mast; serving for a Defence in Close-Fights, therefore are sometimes so called: They also serve for Coolness, Light, and other Conveniency. And at the Head GIRDING-GIRT: A Ship is of the Ship, where the Necessary-

Houle

House stands, there is another

Grating.

GRAVING of a Ship, or, To Grave a Ship; is, to bring her to lie dry a-ground, then burn off all the old Filth that sticks to her Sides without board.

GREAT-CIRCLE-Sailing; is Sailing by, or upon a Great-Circle passing thorow the Zeniths of the two Places: Tho' this sort of Sailing is very exact, yet 'tis very difficult, and indeed, hardly possible for a Ship exactly to Sail by; but it may be of good Advantage, to keep conveniently near it, especially in a Parallel (or East and West) Course.

In Great-Circle-Sailing, there

are Three Cases; viz.

First, When two Places differ only in Latitude.

Secondly, When they differ

only in Longitude.

Thirdly, When they differ both in Latitude and Longi-

pass or Sharpness of her Stem under Water, chiefly towards the Bottom of it; and she is so shap'd, that she may Gripe the more, or keep good Wind: Therefore a False-Stem is sometimes put upon the True one.

The Ship Gripes; that is, turns her Head to the Wind more than she should; and this is caused, either by Over-loading her ahead, the Weight of which presentes her down, so that it will not readily fall off from the Wind;

or by Staying or Setting her Masts too much aft; which always will be a fault in short Ships, that Draws much Water, and will cause her to be continually running into the Wind: Tho' in Floaty Ships, if the Masts be not Stay'd very far aft, they will never keep a good Wind.

GROMETS, are small Rings, made fast by Staples to the upper side of the Yard of a Ship, to tie unto it, or to fasten the Laskets.

GROUND TACKLE, signifies a Ship's Anchor, Cables, &c. in general; or whatever is necessary to make her ride safe at

Anchor.

GROUND-TIMBERS, are those Timbers in the Ship which lie on her Keel, and are fasten'd to it with Bolts, thro' the Keelfon; and are so call'd, because the Ship rests upon them when she is a-ground.

GROUNDING of a Ship, is bringing of her on Ground, to be Clean'd, Trimm'd, Scrubb'd,

or have a Leak Stopt.

GUDGEONS, are the Eyes drove into the Stern-Post, into which the Pintles of the Rudder go, to hang her on.

GUEST-ROPE. See Rope.

GULF, is a Part of the Ocean which runs up into the Land, through Straits, or Narrow Paffages: As, the Gulf of Venice, or the Adriatic-Sea, in Europe; the Gulf of Persia, in Asia; the Gulf of Arabia, or the Red-Sea,

ın.

in Africa; and the Gulf of Florida, in America.

GUNNEL, the fame with

Gun-Waile.

GUNNER of a Ship, or Master-Gunner, has the Charge of all the Ordnance the Ship carries; to fee that they be ferviceably Mounted, and sufficiently supply'd with Spunges, Ladles, and Rammers; that, in Foul-Weather, they be travers'd within Board, (especially those of the Lower-Tire,) and that the Ports be shut, and Caulk'd up; and that at all times they may be well Lash'd, and made fast, lest any one of them should chance to break loose, to the imminent Danger of Foundring the Ship: And in Time of an Engagement, he is to provide that every Piece be sufficiently Mann'd : He is to be Cautious and Provident in the Guard of the Powder in the Powder-Room, and upon no Occafion to fuffer any Fire to come near it, unless it be a Candle in a well-glaz'd Lantern : He is to give an Account of all his Charge, upon Demand. He has a Mate, and Quarter Gunners, for his Affiftance.

GUN ERS-TACKLE. See

Tackle.

GUN ROOM, is the Appartment under the Great-Cabin, which is the proper Place of Rendevous of the Master-Gunner, and his Crew; where they get their Carthrages ready, as also all other Necessaries belonging to them.

GUNTER'S - SCALE. See

GUN - WAIL, or Wun-Wale of a Ship; is the upmost Wail of a Ship, or that Piece of Timber which reaches on either Side from the Quarter-Deck to the Fore-Castle, being the uppermost Bend which sinishes the upper-Works of the Hull in that part wherein they put the Stanchions, which support the Wast-Trees.

GUY is any Rope used to keep off things from bearing or falling against the Ship's Side, as they are hoisted in: So that is any thing is to be haled in over the Gun-Wale, it's gently eased in by a Guy-Rope made fast to the Stanchions of the Wast-

Trees.

which is made fast to the Fore-Mast at one end, and is reev'd thro' a single Block seiz'd to the Pennant of the Winding-Tackle, and then again reev'd thro' another seiz'd to the Fore-Mast, and whose Use is to hale so ward the Pennant of the Winding-Tackle.

H

Hat is, to Call to her, to know whence the is, and whither bound: The usual Call is, Hoe! the Ship? The other Aufwers, Halo! &c. And to Salure another Ship with Trumpers, and

and the like, is also call'd Hail-

ing.

HALE, fignifies Full: As, to Hale up, is to Pull up; to Hale in, or out, is to Pull in, or out.

To Over-Hale a Rope, is to Hale it too stiff, or Hale it the contrary way.

Keel Hale. See Keel.

HALLIARD, are those Ropes by which all Yards are hoisted up. The Cro's-Jack, and the Sprit-suil-Tard have no Halliards, because those are always Slung; tho' in Small Ships, they have Halliards to the Sprit-sail-Tards.

HAMMOCK; a Piece of Canvale hung up fast by the four Corners, between Decks, for the

Seamen to fleep in,

HAND, or Handing. When a thing is to be Deliver'd away, or pass'd from one to another, or to be brought to any one; then the Word is, Hand it this way, or that way! Also, When more Men are wanted to do any Labour, as Hoisting, &c. they call for more Hands, not more Men.

HAND-SPIKE; is a Wooden-Leaver, with which we Traverse the Ordnance at Sea; or Heave withal in a Windlass to weigh up the Anchor.

HARPINGS; is properly the Breadth of the Ship at the Bow. Also the Ends of the Bends which are fasten'd into the Stem, are, by some, call'd Harpings.

HATCHES of a Ship, are like Trap - Doors in the Midships, or between the Main-Mass and Fore-Mast. This way, all Goods of Eulk are let down into the Hold.

where the Hatches are: So that to lay a Thing in the Hatches, is to put it so, that the Hatches cannot be come at or open'd.

When the Hatches are rais'd up higher than the rest of the D.ck, those Pieces of Timber or Planks, which raise, and bear them up, are call'd Coamings of the Hatches. See Souttle:

HAWSER; is a great Rope, or a fort of a small Cable, serving for various Uses a-board a Ship; as, to fasten the Main and Fore-Shrowds; to warp a Ship by as she lies at Anchor, and wind her up to it by a Capstan, Gc. And a Great Ship's Hawser, may serve for a Cable to the Sheat-Anchor of a Small Ship.

HAWSES, are great Holes under the Head of the Ship, thro' which the Cables run, when

the lies at Anchor.

Bold-Hawse; that is, when the Holes are high above the Water.

Fresh the Hawse! or, Veer out more Cable! is when part of the Cable that lies in the Hawse is fretted or chased, and 'tis requir'd that more Cable may be Veer'd out, so that another part of it may rest in the Hawse.

Fresk the Hawfe! that is, Lay new Pieces upon the Cable in the Hamfe, to preferve it from fretting.

Burning in the Hawse; that is, when the Cable endures a vio-

lent Stress.

Clearing the Hawse: When two Cables that come thro' leveral Hawfes are twifted and entangled one with the other, the Untwifting of them, is call'd Clearing the Hawfe.

Thwart the Hawse, or Rides upon the Hawse; that is, when a Ship lies thwart, or cross, or with her Stern just before ano-

ther Ship's Hawfe.

HAWSE-FULL To Ride Hanse-

full. See Ride.

HEAD of a Ship, or Boat; that is, the Fore-part. Chase stands right a-Head; that is, right before us.

HEAD-LAND. See Land.

HEAD-LINES, are the Ropes of all Sails which are next to the Yards, and by which the Sails are made falt to the Yards.

HEADS, Rung-Heads.

Rung.

HEAD - SAILS, are those which belong to the Foremast and Boltsprit; for 'cis they that govern the Head of the Ship, and do make it fall off, and keep out of the Wind: And thele, in Quarter-Winds, are the dan. chief Drawing-Sails.

HEAD-SEA, is when a great Billow, or Wave of the Sea, meets the Ship right a-head, as the fails in her Course.

HEAVE! That is, to throw away: As, Heave it Over board! that is, Fling it Over-board !

Heaving at the Capstan; that is, turning about the Capstun.

Heave and Set; that is, when a Ship being at Anchor, rifes and falls, by the force of the Waves, then she is said to Heave and Set.

Heaving a-Peek. See Peek. Heave the Lead! See Lead.

HEEL: If a Ship lean on one fide, whether the be aground, or a-float; then tistaid, She Hiels a-Starboard, or a-Port? Or that the Heels offward, or to the Shore; that is, enclines more to one fide than the other.

HEEL of the Mast; fignifies that part of the Foot of any Mast which is par'd away slanting on the Aftward fide thereof, in order that it may be Stay'd aftward on; The Heels of the

Top-Malis are Squares.

HEIGHT of the Sun, or Star. is an Arc of a Vertical-Circle intercepted between the Sun, or Star, and the Horizon. Knowlege of this, when taken at Noon, is of great Use in Navigation, in order for finding the Latitude of the Place the Ship is in, or Distance of the Zenith from the Equator.

Meridian-Height. See Meri-

HELM, or Tiller, of a Ship; is that Piece of Timber which is tailen'd into the Rudder, and fo comes forward into the Steerage, or Place where he at the Helm

Ddd

Steers

Steers the Ship, by holding the Whipstaff in his Hand. Some Ships have a Wheel, like those in Cranes, placed between the Quarter-Deck and Coach; which has several Advantages, to what the Common Methods have.

Bear up the Helm! that is, Let the Ship go more Large before the Wind.

Helm a Mid-skip! or, Right the Helm! that is, Keep it Even with the Middle of the Ship.

Bear up Round! that is, Let the Ship go directly before the Wind, in the middle, between her two Sheats.

Port the Helm! that is, Put the Helm over to the Left-fide of the Ship!

Starboard the Helm! that is, Put it to the Right-fide of the Ship.

Ease the Helm! See Ease.

HEMISPHERE; is the Half of a Sphere, or Globe, when 'tis fupposed to be cut thro' the Centre, in the Plane of one of its great Circles.

Thus, the Equator divides the Terrestrial Globe into the Northern and Southern Hemispheres.

The Meridian divides the Globe into the Eastern and Western Hemispheres.

The Horizon divides the Globe into the Upper and Lower He-

mispheres.

HEMISPHERES, are also, those Maps or Draughts of the Heavens, Constellations, Gc. that are usually made for the Benefit of Navigators.

HITCH; is to catch hold of any thing with a Hook, or Rope, to hold it fast: As, Hitch the Fish-Hook to the Fluke of the Anchor! That is said, when they are about to Weigh the Anchor.

Hitch the Tackles into the Rings of the Boat! That is faid, when the Boat is to be Hoised in.

HOISE; is to Hale up any thing into the Ship; or getting up a Yard, &c. As, Hoise up the Tard! Hoise the Water in!

HOLD; is that part of a Ship between the Keelson and the Lower-Deck: Wherein, divided by Bulk-Heads, are the Powder-Room, Bread-Room, Steward's-Room, &c. And in a Merchantman, all the Goods, and Lading in general, are Stow'd in the Hold.

To Stow the Hold; is to take Goods into the Hold.

Predy the Hold. See Predy.

Remove, or Clear, the Goods

and Things therein.

HOLD-OFF: In Heaving in the Cable at the Capstan, if it be very stiff and great, or have lain long in a Slimy or Oazy-Ground; unless that part of it which 'tis heav'd in by, be hal'd away hard from the Capstan, the Cable will Surge, or slip back: Therefore, it must be haled away as fast as it comes in, that the Cable may keep close about the Whelps; and this Work is call'd, Holding-off.

He

He Holds his own: That is, speaking of a Ship under Sail, He keeps his Course Right forward.

HOOKS; are those fork'd Timbers, in a Ship, which are placed directly upon her Keel, as well in her Run, as in her Rake.

Foot-HOOKS; the same with

Futtocks: Which fee.

Boat-HOOK; a Hook used to Fend-off the Boat from Bruising.

Shear-HOOKS; are Hooks like Sickles, fix'd in the Ends of the Yard-Arms, that if a Ship under Sail come to Board her, those Shears may cut her Shrowds, and so spoil her Tacklings: But because they are so subject to break their own Yards, and cut the Ropes that come from the Top sails, they are now very seldom used.

Can-HOOKS, being made fast to the End of a Rope, with a Noose, (like that which Brewers use to sling or carry their Barrels on,) and made Use of for

Slings.

Looff-HOOKS, is a Tackle with two Hooks; one, to hitch into a Cringle of the Main or Fore-Sail, in the Bolt-Rope, at the Leetch of the Sail, by the Clew; and the other is to hitch into a Strap which is splic'd to the Chestree: Their Use is, to pull down the Sail, and succour the Tackles in a large Sail, and stiff Gale, that all the Stress may not bear upon the Tack. It is also used, when the Tack is to be seiz'd more secure: And to take off,

or put on a Bonnet, or Drab-

Cat-HOOKS. See Cat.

HORIZON; is that Circle of the Sphere which divides the Heavens and the Earth into Two Parts; an Upper, and a Lower.

Sensible HORIZON; is that Circle which limits our Sight, and may be conceiv'd to be made by some great Plain, or the Surface of the Sea.

It divides the Terrestrial Globe into Two Parts; the one Light, the other Dark; which are sometimes greater, or less, according to the Condition of the Place.

It Determines the Visible Rifing and Setting of the Sun, Moon, or Stars, in any particular Latitude. For when any of these appear just at the Eastern Part of the Horizon, 'tis then said to Rise; and when it does so at the Western Part, 'tis then said to Set.

Rational or Real Horizon; is a great Circle which Divides the Globes into Two Equal Parts, or Hemispheres: And the Poles thereof, are the Zenith and Nadir; or the Two Points, one directly over our Heads, the other opposit to it under our Feet.

From this, the Altitude of the Sun, or Stars, is Accounted, which is their Height above the Horizon.

This Circle is Represented by the Gard of the Mariners-Compass, which is Divided into 32 Points. See Compass.

Ddd 2

Right-HORIZON; is that which cuts the Equator at Right Angles.

oblique-HORIZON; is that which cuts the Equator Oblique-

ly.

Parallel-HORIZON; is that where the Pole of the World is the Zenith: Or is that Horizon which either is in the Equator, or some Parallel to it.

HORIZONTAL; that is, Pa-

rallel to the Horizon.

HORSE; is a Rope made fast to the Fore-Mast-Shrowds, having a Dead-Man's-Eye at its End, thro' which the Pennant of the Spritsail-Sheats is reev'd: It's Use is, to keep the Spritsail-Sheats clear of the Flukes of the Anchor.

HORSE; is also, that Rope which is made fast to the Shrowds, to preserve him that heaves the Lead there, from falling into the

HORSES; the Waps are sometimes so called: As also, those short Waps that are seiz'd to the middle of the Top-mast and Top-Gallant-mast-Stay, wherein are reev'd the Top-sail and Top Gallant sail Bow-lines.

HOUNDS; are Holes in the Cheeks, at the Top of the Masts, thro' which the Ties run, to Hoise the Yards: The Top-Mast has but one Hole or Hound,

and one Tie.

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HOWKER, or Houce; is a Vessel, common with the Dutch, built somewhat like a Fink, but Masted and Rigg'd like a Hoy:

They'll Sail well, and that near the Wind: They Tack soon and short, and Live in any Sea. The Largest Houkers carry about 200 Tuns; others there are of 50 or 60 Tuns: One of these, Mann'd with five or six Sailors, is sufficient to make an East-India Voyage.

HOWSING-IN: After a Ship is past the Breadth of her Bearing, and that she is brought in too narrow to her Upper Works, she is said to be Housed-in, that

is, Pinched in.

or Foot-Hooks of a Ship, are Scarf'd into the Ground-Timbers, and Bolted; and the Plank laid on them up to the Orlop; the Carpenters say then, They begin to make the Ship Howle.

HOY, or Huoy; is a small Vessel, or Bark, whose Yards are not a-cross, nor the Sail square, like those of other Ships: Her Sails are cut like a Misen; so that she can sail nearer the Wind, than a Vessel with Cross-Sail can do.

HOYSE; the same with Hoise:

Which fee.

having their Gun-Decks from 113 to 150 Feet Long; and from 31 to 40 Feet Broad: They contain from 400 to 1071 Tuns: Their Use is chiefly for setting Masts of Ships, and the like.

HULL of a Ship; is the full Bulk, or Main Body of a Ship, without Masts, or any Rigging,

from Stem to Stern.

To Strike a Hull; that is, in a Storm, to lie close and obscurely in the Sea, or tarry for some Consort, bearing no Sail, with

the Helm lash'd a-Lee.

To Hull, or Lie a-Hull, or Hulling; is said of a Ship, when either in a dead Calm, (to prevent her beating the Sails against the Masts, by Rolling;) or in a Storm, when she cannot carry them, she takes all her Sails in, so that nothing but her Masts, Yards and Rigging are abroad; the Helm is lash'd fast to the Lee-side of the Ship: In this Condition, if she is a good Sailer, she will lie easily under the Sea, and make her Way one Point before the Beam.

Piece of the Misen, or some other Sail, part open'd or left loose, all the rest being fast made up to the Yard-Arm; its Use is, to keep the Ship's Head to the Wind. In case a Ship will not weather-Coil, to lay her Head the other Way; loose a Hullock of her Fore-sails, and then change the Helm to the Weather-side; by that means, she is made to

where her Stern was before.

HURRICAN, is a most surious Storm, which the WestIndies, and especially the CaribbeIslands, are subject to; and
which so dreadfully afflict them,
in or about the Month of August.

Their Extent and Continuance
is but small, nor do they happen
Yearly; but then their Violence is

fall off, and to lay her Head

unconceivably strange, and their Essects wonderfully surprising; the Sea siies in the Air in a terrible manner, and drowns all the adjacent Ground; insomuch that Ships have bin driven over the Tops of high Trees, many Leagues in the Land, and there lest.

HYDROGRAPHY, is the Art which teaches how to Describe and Measure the Sea; giving an Account of its Tides, Counter-Tides, Soundings, Bays, Gulfs, Creeks, &c. As also the Rocks, Shelves, Sands, Shoals, Promontories. Harbours, Distance from one Port to another; and other Things remarkable on the Coasts.

HYDROGRAPHICAL Charts, are certain Sea-Maps, Delineated for the Use of Pilots, and other Mariners, wherein are mark'd all the Rhumbs, or Points of the Compass: As also the Rocks, Shelves, Sands, and Capes; And the Meridians drawn Parallel one to another. See Charts.

T

JACK; is that Flag that is hois'd up the Sprinfail-Top-mast-Head of a Ship. See Flags.

JACOB'S-STAFF; the same with the Cross-Staff. See Staff.

JEAR-CAPSTAN, or feer-

Capstan. See Capstan.

JEER-ROPE. See Rope.

Ddd 3 JEERS;

JEERS; As, To be brought to the Jeers, (speaking of one to be Punish'd at the Feer-Copstan. ) See under the word Ducking.

JETSON, is a Thing cast out of a Ship, being in Danger of Wrack, and beaten to the Shore. by the Waters, or cast on the Shore by the Mariners.

IMPREST. See, To Man a

Fleet.

IRON-SICK; is faid of a Ship, whose Bolts, Spikes, or Nails, are so eaten with Ruft, as to stand hollow in the Planks, and to make her Leake. This is prevented, by putting Lead over all the Bolt-heads under Water.

JONKS, or fongues; are Veffels very common in the East-Indies: They are about the Bigness of our Fly-Boats; but differ in Form of Building, according to the different Methods of the Nations, in those Parts, they belong to.

Their Sails, oftentimes, are only of Reeds and of Matts; and their Anchors are made

of Wood.

JOURNAL, at Sea, is a Book kept by the Officers of a Ship; where an Account of her Way is duly inserted, as also, the Changes of the Weather, with all Remarkable Accidents, and Occurrences.

ISLAND, or ISLE, is a Tract of Dry Land, environ'd with

Water.

## 1. ISLANDS belonging to Ell ROPE, are,

The Mediterranean Islands, lying South of Europe.

The Azores, or Western Islands,

lying West of Spain.

The Britannic Islands, lying

North of France.

The Scandinavian Islands, lying in the North and Baltic-Sea.

The Island of Ice-land, lying ing West of Scandinavia.

## 2. IS LANDS belonging to ASIA, are,

Ceylon, and the Maldives, lying West of the Isles of Sunda.

The Islands of Sunda, lying

West of the Moluccoes.

The Moluccoes, lying South of

the Philippine Isles.

The Ladron Isles, lying East

of the Philippine.

The Philippine Isles, lying South-West of the Japan Isles.

The Japan Islands, lying East

of China.

## 3. IS LANDS belonging to AFRICA, are,

The Madera, lying West of Barbary.

The Canary Islands, lying West

of Bildulgerid.

The Cape de Verde Isles, lying West of Negroland.

St. Thomas's Island, lying West of Ethiopia.

The Princess Island, lying West of Ethiopia.

St. Helena, lying West of

St. Thomas.

Isle of Ascension, lying North-East of St. Helena.

Madagascar, or St. Lawrence,

lying East of Elbiopia.

The Isles of Comore, lying North-West of Madagascar.

## 4. ISLANDS belonging to AMERICA, are,

Newfoundland, lying East of Terra Canadensis.

California, lying West of Nova

Granada.

Terra del Fuogo, lying South of Terra Magellanica.

The Antilles, Greater and

Lesser.

The Greater Antilles, are Cuba, Jamaica, Hispaniola, Ports-rico, all East of New Spain.

The Lesser Antilles: As, Caribee Isles, lying South-East

of the Greater Antilles.

The Sorovento, lying North of

Terra-Firma.

The Lucayes, or the Bahama Isles, lying South-East of Florida.

Bermudas, or Summer-Isles, lying East of Florida.

ISTMUS, is a narrow Neck of Land annexing a Peninsula to the Continent, by which People may go into the one from the other.

As in Europe; The Istmus of Corinth, joining Morea to Greece.

The Istmus of Taurica Chersonesus, joining Taurica Chersonesus to Little Tartary.

In Asia; The Istmus of Malacca, joining Malacca to Pening

Jula Indiæ intra Gangem.

In Africa; The 1st mus of Swez;

joining Africa and Afra.

In America; the Istmus of Pannama, joining Mexico to Peru.

JUNKES, fignifies only, Old Hawsers.

JURY-MAST. See Masts.

K

KECKLE; To Keckle the Cable, or Bolt-Rope, is to Serve it, or bind some small Ropes, or Old Clouts, about it, to prevent the Gable from galling ing in the Hamse, or Bolt-Rope from doing so against the Ship's Quarter.

KEDGER, or Kedge-Anchor.

See Anchor.

KEDGING; is when a Ship is brought up and down in a narrow River, the Wind being contrary to the Tide, and yet she is to go with the Tide; then fet the Fore-Sail, Fore-Top-Sail, and Misen-Sail, and let the Ship drive with the Tide, fo that they may flat ber about: And if the happen to come over nea the Shore, then having a small Anchor in the Head of the Boat, with a small Hawser fasten'd to it from the Ship, which let drop in the middle of the Stream, and Ddd 4 this this will wend, or turn her Head about: When she is come fully abour, they lift up the Anchor again; and this Working, is to Kedge, or Kedging; and this An-

chor is call'd Kedger.

KEEL, is the first or lowest Piece of Timber in a Ship; it lies in the very bottom of her Hull, one End whereof is at the Stern, the other at the Stem; and into this are all the Ground-Timbers and Hooks fasten'd and bolted fore and aft.

False-KEEL; is a Keel put on under the first, in case the Ship be Shallow, and so Over-sloaty,

and Roll too much.

Rank KEEL; that is, a deep Keel; fuch as will keep the ship from Rolling.

KEEL-HALE, or Keel-Rake.

See Ducking.

KEEL-ROPE. See Rope.

KELLSON, is a long Piece of Timber, like the Keel, laid over the Floor-Timbers of a Ship, lying within, as the other without, and directly over it; and fast bound together with strong Iron-Bolts' thro' the Timbers and all.

Renks, are Doublings in a Rope, or Cable, when Handed in or out, so that it does not run easte: Or when any Rope makes Turns, or Twists and does not run free in the Block, then 'tis said to make Kenks.

than, and something like a Hij; but is so built, that twill endure and live in any Sea, or Weather

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wharfoever, and fails very well: fuch Vessels are very useful and proper to attend upon great Ships, for carrying their Stores, and other N cessaries.

Ships, are those Vessels, with Mortar-Pieces on-board, which are employ'd in Bombarding an Enemy's Sea-Port-Towns, &c.

REVELS, or Chevils, the same

with Knevels; which fee.

KNAVE-LINE, is a Rope made fast to the Main or fore-Top, whence it comes down by Ties to the Ram-bead, where 'tis reev'd thro' a small Piece of Wood, and so brought to the Ship's-side, and hal'd taught to the Rails: Their Use is, to keep the Ties and Halliards (when New) from turning about one another.

KNECKS, the same with

Kenks; which see.

KNEES, are Crooked Pieces of Timber, bow'd like a Knee, that binds the Beams and Futtocks together, being bolted fast into them both: some of these stand right up and down, some along Ship; they are used about all the Decks: some saw'd or hew'd to that form, and some growing so, naturally, which are certainly the best for Service.

KNEE-TIMBERS, are those Timbers which are fit and useful for making Knees of, in Building

of Ships.

Knee of the Head; that is, the Cut-water of the Ship.

KNETTLES,

KNETTLES; are two Pieces of Spun Yarn, put together untwisted, with a Knot at each End, to seize a Block, Rope, or the like.

finall Pieces of Wood, nail'd to the Infide of the Ship: Their Use is, to Belay the Sheats and

Tacks unto.

KNIGHTS; are two thick fhort Pieces of Wood, commonly Carv'd like a Man's Head, with four Shiners in each; three for the Halliards, and one for the Top-Ropes to run in.

Fore-KNIGHTS, is that which stands fast bolted to the Beams,

abaft the Fore-Mast.

Main-KNIGHT, is that which

stands abast the Main-Mast.

KNOTS used at Sea, are di-

stinguish'd into these; viz.

Wale-KNOT, is a round Knot fo made with the Lays of a Rope, that it cannot flip; and ferves for Sheats, Tacks, and Stoppers.

Bow-Line-KNOT is so firmly made, and fasten'd to the Crengles of the Sails, that they must break, or the Sail split, before

'twill flip.

Sheep-Shank-KNOT, is to shorten a Rope without cutting it, which may be presently loosen'd, and the Rope not the

worle for it.

the Divisions of it, which usually are Seven Fathom, or Forty-two Feet asunder; tho' they really should be Fifty Feet. And

as many Knots as the Log-Line runs out in Half a Minute, so many Miles does the Ship sail in an Hour; supposing her to run at the same Rate. See Log.

L

ABOUR: At Sea, a Ship is faid to Labour, when she Rolls and Tosses much.

LADDERS, in a ship, are distinguish'd into Three sorts;

viz.

Bolt-Sprit LADDER, which is at the Beak-Head, made fast over the Bolt-Sprit, to get upon it when there is Occasion.

Entring-LADDER, made of Wood, and is placed in the

Wast of the Ship.

Gallery-LADDER, made of Ropes, and hung over the Gallery, and Stern of Ships, for to come out, or go into a Boat by, in Foul-Weather, and High-Sea.

LADLE, is an Instrument to Load the Guns with Pow-

der.

LAGAN, Lagon, or Ligan, is a Wrack which lies in the bottom of the Sea.

LAND-FALL; that is, to

Fall in with the Land.

A Good Land-Fall, is when a Ship makes or fees the Land as the expected, or according to her Reckoning: And,

A Bad Land-Fall, fignifies the

contrary.

LAND-

LAND-Lay'd, or, To Lay the Land; that is, just to lose the

Sight of it.

LAND-Lock'd, is when Land lies all round the Ship, so that no Point of the Compass is open to the Sea: And if she is at Anchor in such a Place, she is said to ride Land-Lock'd; and therefore is concluded to ride safe from the Violence of Winds and Tides.

LAND-Mark, is any Mountain, Rock, Steeple, Wind-mill, a Tree, or the like, near the Sea-fide. As such a Steeple is a Land-Mark to Sea-faring Men,

ther Point of Land, hinders the Sight of that which the

Ship came from.

LAND to; The Ship lies Landto: That is, She is so far off the Shore, that she can but just Ken

(or.difcern ) it.

LAND-Turn, is a Wind that blows from the Shore, in the Night, at certain Times, in most Hot Countries.

To Set the Land; that is, to fee by the Compass how it

bears.

of Land, is that which lies farther out than the rest. See Point.

LANGREL Shot, is a Shot fometimes used at Sea, made of two Bars of Iron, with a Joint in the middle, by means of which it may be shorten'd, and so the better put into the Gun; at each end there is a Half-Bullet either of Lead or Iron:

This Shot, when Discharg'd, slies out at Length; and therefore will do the more Execution amongst the Enemy's Rigging, of c.

LANNIARDS, or Lanniers, are imall Ropes reev'd into the Dead-Men's-Eyes of all Shrowds; either to flacken them, or to fet them taught: The Stays of all Masts are set taught by Lanniards.

LARBOARD, is the Left-handfide of the Ship, when you stand with your Face towards the Head.

LARGE: A Ship goes Large; that is, she goes neither before the Wind, nor upon the Wind, but, as it were, Quartering between both, with a fresh Gale, and all Sails drawing.

To Sail with a Large Wind;

that is with a Fair Wind.

LASH, or Lice, fignifies, to Bind, or Make fast; As, To Lish the Bonnet to the Course; or the Drabler to the Bonnets. Also, the Carpenter takes care that the Spare-Tards be Lash'd fast to the Ship's Side. And in a Rolling-Sea, the Gunners mind that the Guns be well Lash'd, lest they should break loose.

LASHERS, are those Ropes only, which bind fast the Tackles, and the Breechings of the Ordnance, when haled, or made-

fast within Board.

LASKETS, are finall Lines, like Loops, fow'd to the Bonnets and Drablers of a Ship, for to Lash or Lace the Bonnets to the

Courses,

Courses, or the Drablers to the Bonnets.

LASKING; The Ship goes Lasking: That is, She goes neither by the Wind, nor directly before the Wind: And 'tis much the same with going Large, or Veering, that is, going with a Quarterly Wind.

LATCHES, or Latchets, the same with Laskets; which see.

LATITUDE of a Place, on the Surface of the Globe, is an Arc of the Meridian intercepted between the Zenith of the Place, and the Equinoctial; and therefore is always Equal to the Height of the Pole of the World from the Horizon. Hence, the Distance of a Ship, from the Equinoctial, either North or South, counted on the Meridian, is her Latitude : So that if a Ship fail from the Equinoctial, or from a Lester Latitude to a Greater, The is said to Raise the Pole: But if the fail towards the Equinoctial, or from a Greater Latitude to a Less, she is said to Depress the Pole. And in order to find the Latitude of a Place:

the Sun's Declination: Which is taken from some Correct Tables of the Sun's Declination. See

Declination.

Secondly, The Sun's Meridian Altitude: Which is taken by a Quadrant.

Thirdly, There must be given, the Sun's Position, or Situation upon the Meridian, Northwards, or Southwards, in respect of the Zenith of the Place: And this is taken by the Magnetic-Compass; that is, by Setting the Sun.

## Also, 'tis necessary to Observe,

1. That the Zenith is always in the Meridian, and always 90 Degrees distant from the Horizon.

2. That if the Meridian Altitude of the Sun be Subtracted from 90 Degrees, the Remainder is the Sun's Distance from the Zenith.

3. That if the Meridian Altitude of the Sun be 90 Degrees, then the Sun is the Zenith.

4. That the Distance of the Zenith from the Equator, is the Latitude of the Place; and is always Equal to the Elevation of the Pole.

5. That if the Equator Cross the Zenith, then the Place lies under the Equator; and has no Latitude.

6. That if the Equator be North of the Zenith, then the Place is in Southern Latitude: Or if the Equator be South of the Zenith, then the Place is in Northern Latitude: And viceversa, in each Particular.

7. That when the Sun is in the Equator, it has no Declina-

tron.

8. That when the Sun is North of the Equator, it is in North Declination: Or when South of the Equator, in Southern Declination: And vice-versa, in each Particular.

These being thorowly understood; the Latitude of any Place is readily found, by the Rules given for Working an Observation, under the word Observation: Which see.

But to find the Latitude of a Place, by a Chart, see Mer-

eator's Chart.

Middle-LATITUDE, is Half the Sum of any Two given Luitudes.

Middle - LATITUDE - Sailing.

See Middle.

Difference of LATITUDE, is the Northing or Southing of a Ship; or the Way gain'd, to the Northward or Southward of the Place she Departed from: Or tis the Difference between the Latitudes of any two Places, shewing how far one of them is to the Southward or Northward of the other. And 'tis easily found, by this Rule, (the Latitudes being given:)

1. If the Places are on the same side of the Equinoctial, their Difference is the Difference of

Latitude Sought.

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2. If the Places are on contrary fides of the Equinoctial, that is, one in North, and the other in South Latitude, their Sum is the Difference of Latitude sought.

LAKE, is a small Collection of deep Standing-Water, intirely surrounded with Land, and having no visible or immediate Communication with the Sea.

LAUNCH, fignifies, to put out: As, Launch the Ship! that

is, Put her out of the Dock!

Launch out the Capstan-Bars!

that is, Put them out!

that is, when Things are stow'd in the Hold, to put them more aft, or forward on.

Yard is Hoisted high enough, Hoise no more! Or, in Pumping, if the Pump sucks, Pump no more!

LAY the Land. See Land.

LEAD, as, Sounding-Lead, or Deep-Sea-Lead, is Six or Seven Pound Weight of Lead, near a Foot long, and fasten'd at the End of the Sounding Line, or Deep-Sea-Line.

Heave the Lead; that is, to Sound, or to find where the Ship may sail, by the Depth of Waters. He that Heaves the Lead, stands by the Horse, or in the Chains, and sings the Depth he finds.

LEAGUE, is a Measure of Length commonly used at Sea, and is reckon'd to be Three English Miles.

LEAK, is a Hole in the Ship, thro' which the Water comes

10.

Spring a Leak; that is said of

a Ship that begins to Leak.

To Stop a Leak, is to put into it a Plug wrapt in Okum, and well Tarr'd, or in a Tarpawling Clout, to keep the Water out; or nailing a Piece of Sheet-Lead upon the Place.

LEDGES, are small Pieces of Timber lying a-thwart ships, from

the

the Wast-Trees to the Roof-Trees: They serve to bear up the Gratings or Nettings over the Half-Deck.

LEE, is a word of various Significations; tho generally, the Part opposite to the Wind, is meant by it: As,

LEE-Shore, is that Shore against

which the Wind blows.

LEE-Latch: Have a Care of the Lee-Latch! That is, Take Care that the Ship don't go to the Lee-ward of her Course, or too much to Lee-ward, or too near the Shore.

A-LEE the Helm! that is, Put the Helm to the Lee-ward-side

of the Ship.

Come up by the Lee; or, To come up by the Lee; is to bring the Ship so, that all her Sails may lie flat against her Masts and Shrowds, and that the Wind may come right upon her Broad-side.

LEE-Fang, is a Rope reev'd into the Cringles of the Courses, to hale in the Bottom of the Sail, that the Bonnets may be Laced on: As also, to Take in the Sail.

LEE-Seel. See Seel.

Leeward-Ship, is that which stands not so near the Wind.

Leeward-Tide. See Tide.

Lee-Way. See Way.

LEETCH of a Sail, is the Outward Edge, or Skirt of the Sail, from the Earing to the Clew; or the Middle of the Sail, between the Earing and the Clew.

Leetch-Lines, are small Ropes made fast to the Leetch of the Top-sails, (to which they only belong,) and reev'd into a Block at the Yard, close by the Top-sail-Ties: They serve to hale in the Leetch of the Sail, when the Topsails are to be taken in.

LEGS, are small Ropes, of about a Foot in Length, put thro' the Bolt-Ropes of the Main, and Fore-sail, in the Leetch of each; their Ends are spliced into themselves: They have a small Eye, into which the Martnets are made fast by two Hitches.

fail, or Sprit-sail; is to put out those Sails, when their Yards are

hoised up alost.

LEVANT: By this word is meant the Eastern-part of a Continent: But with the Seamen, it signifies the Mediterranean-Sea.

on-board a Man of War, who, in the Captain's Absence, Commands

in Chief. See Officers.

LIFTS, are Ropes which brlong to the Yard-Arms of all Yards: They ferve to Top the Yards, that is, to make the Ends of the Yards hang higher, or Lower, as Occasion requires.

Toj-Sail-Lists, serve as Sheats

for the Top-Gallant-Tards.

Standing-Lifts, are those of the

Spritsai.-Tards.

Topping the Lifts; that is, haling of the Lifts: As, Top a Starboard! or, Top a Port! that

that is, Hale upon the Starboard, or Larboard-Lift!

LIGAN, the same with Lagan;

which fee.

LIGHTER; is a Broad Large Boat, which goes with Sails and Oars: They are very common in the River Thames; and are used for carrying of Timber, Coals, and other Goods, up and down the River: They are also used for Carrying Ballast, &c.

LIGHT-FRIGATE See Frigate. LIMBER-HOLES, are little Holes cut thro' the Floor-Timbers of a Ship, serving to let the Water to the Well of the Pump: Which else would lie between those Timbers where the Keel-

Rope runs.

LINE: Navigators usually call the Equator, or Equinostial-Line, fimply the Line. And at Sea, they have a Ridiculous Ceremony; That when Sailors Cross the Line, or Tropic, that have not bin there before, they must Pay certain Forfeitures Demanded of them, or elfe be Duck'd, or Baptiz'd, ( as they call it, ) either from the Main-Yard-Arm, or otherwise: This Custom is inviolably used by most Nations, who practise it indispensably in East India Voyarently: Nay, those of the same Nation puts it in Execution in different manner. It is perform'd, by some, thus, (by way of Baptism, as was said before;) The Ship's Company Range For the Order of Battle, is to

with a Bucket in his Hand, with Tubs of Sea-Water ready by them : Then the Boatswain's Mate, or some such Officer, comes to the Foot of the Main-Mast, with Visage all bedawb'd, and his Body all roll'd in Ropes, some hanging down from his Shoulders; and after him, in Order, there follows five or fix Sailors dress'd in a like manner: And holding in his Hand some Book of Navigation; he that is to be Baptiz'd, comes and Kneels before him, and puts his Hand upon the Book, and is obliged to Swear folemnly, and fincerely, That as often as there is Occasion for Baptizing or Ducking Others, he will exercife upon them, the same Ceremony as they are about to exercise upon him, without ever thinking to exempt them from it. After this, he arises, and goes towards the Head of the Veffel, thorow the Lane of Tubs, and Seamen who Attend with Buckets full of Water, fo that as he goes along, they throwing it upon him, he receives his Baptism sufficiently.

LINES, are small Ropes belonging to the Ship; of which there be several, as Bom-Lines, ges; and each practifes it diffe- Bunt-Lines, Knave-Lines, Log-Lines, Smiting-Lines, Leetch-Lines, Sounding-Lines, &c. which fee.

LINE of Battle; is the Dispofition of the Stations of a Fleet, at the Time of an Engagement : themselves in two Lanes, each draw as much as possible all the

Ships

Ships into a Right Line, as well to gain and keep the Advantage of the Wind, as to run the same Board. Those of the Van, Centre, and Rear, place themselves in the same Line, when the Squadron, or Division, are United. See Engagement.

LIVE; To Live; that is, To Endure the Sea: As they say of a Boat, That it will Live in any tolerable Sea; that is, It will Endure, or bear with, any Sea.

LOCKERS, are those little Boxes, or Seats, in a Ship, contrived to put or Stow any Thing in; as in little Cupboards, or Chests.

LOG, is a little Piece of Wood of a Triangular Form, with as much Lead in one end thereof, as will serve to make it swim upright in the Water; at the other End is made fast to

the Log-Line.

LOG-LINE, is a small Line, having the Log tied to one End : Tis kept wound about a Reel for that Purpose. The Log-Line for about 10 Fathom, in Small Ships, but more in Great ones, from the Loz, has, or ought to have, no Knots, or Divisions; because so much should be allowed, that the Lig may be out of the Eddy of the Ship's Wake, before the Glass be turn'd up : But then the Knots begin, and ought to be at least 50 Feet from one another; tho' the common Practice at Sea, is to have them but 7 Fathoms, or 42 Feet distance. The Use of

the Log and Log-Line, is to make an Estimate of the Ship's Way, or Distance run, by Heaving the Log every Hour, or every two Hours.

To Heave the Log, is first to throw it into the Water, and let it run away so far, as to be out of the Eddy of the Ship's Wake; then One having a Half-Minute-Glass ready in his Hand, turns it up, just when the first Knot runs off the Reel; and then the Line running eafily off as the Ship move, when the Glass is out, he cries, Stop! The other stops the Reel: Then they count the Knots run out, as also the odd Fathoms, or Feet, (if there be any.) And they reckon; For as many Knots as run out in Half a Minute of Time, so many Miles the Ship sails in an Hour; and for every 5 odd Feet, a roth Part of a Mile more Thus 4 Knots in Half a Minute, is 4 Miles an Hour: And 3 Knots, 45 Feet in Half a Minute, 15 3 7 Miles an Hour.

The Common Division of the Log-Line, is grounded upon this Supposition; That a Mile contains 5000 Feet, and 60 of such Miles a Degree; whence a Degree would contain 300000 Feet. Now Half a Minute being the 120th Part of an Hour, and the 120 Part of 5000 Feet is 41,6,5%c. or near 42 Feet. So that as many times 42 Feet as the Ship runs in Half a Minute, so many Miles she runs in an Hour: Therefore, according to this

Supro-

Supposition, 42 Feet must be the D. stance between Knot and Knot

upon the Log-Line.

But this Supposition, and confequently the Prastice from it, is altogether Erroneous: For a Degree is now actually found to contain 360000 Feet at least; wherefore, a Minute, or a Mil, must contain 6000 Feet, (which is the True Sea-Mile.) fince Half a Minute 1s the 120th Part of an Hour, the 120th Part of 6000 Feet is 50 Feet: Therefore as many times 50 Feet as the Ship runs in Half a Minute, fo many Miles must she go in an Hour, (supposing she goes at the fame rate; ) and for every 5 odd Feet, a 10th Part of a Mile more; therefore, the Distance between Knot and Knot must be 50 Feet.

LOG-BOARD, is a Board, or Table, divided usually into Five Columns; The First Column contains the Hours of the Day, from Noon to Noon : In the Second Column is placed the Ship's Course: In the Third and Fourth column is placed the Distance run in Knots, Fathoms, and Half-Fathoms, or sometimes Feet: In the Fifth Column is placed the Winds, Weather, Ac-

uldents, &c.

LOG BOOK, is a Book Colam'd and Ruled, by fome, like the Log-Board, wherein the Log-Board's Account is every Noon Entred, with the Observations then made; And from hence 'tis Corrected, and Transcrib'd Whence the tollowing into the fournals.

LONG-BOAT. See Boat.

LONGITUDE of a Place, is its Distance, ( measured upon the Equator, or some Parallel to it. ) from the First Meridian, which may be taken, ( at pleafure, either Eastward, or Westward; whence 'tis call'd Eastern, or Western Longitude. And because the Meridian of any Place Divides the Globe (whose Who'e Circumference is reckon'd 360 Degrees ) into Two Equal Parts, call'd Hemispheres, the one Eastern, and the other Western: Therefore the Greatest Lorgitude a Place can have, is that of 360, or 180 Degrees.

And fince the Longitude of Places is Meafured either upon the Equator, or some one of its Parallels, which continually decrease towards the Poles of the Equator, or of the World, and yet are each of them divided into 360 Equal Parts, or Degrees; therefore the Degrees of Longitude (according to this Definition) are not every whire Equal one with the other, and consequently do vary in their Proportion to the same fort of Miles, as the Parallels, on which they are Measured, are more or less distant from the Equator, according to this Proportion:

As the Co-Sine of the Latitude, To the Longitude in Degrees of

the Parailel; So is the Radius,

To the Longitude in Degrees of the Equator.

TABLE,

TABLE, Shewing to every Degree of Latitude, the Exact Number of Miles, Seconds, and Thirds, that are Answerable to One Degree in the Equator.

Min. Sec. & Th.   Min. Sec. & Th.   Min. Sec. & Th.											
La	of the Equator,			La	of the Equator,			La	The state of the s		
Latitude.	Equivalent to				Equivalent to			Laritude	Equivalent to		
ide	Deg. of the			ide		1 Deg. of the			1 Deg. of the		
	Parallel.			-	Parallel.				Parallel.		
D.	M.	S.	T.	D.	M.	S.	T.	D.	M.	S.	T.
I	59	59	28	31	51	25	48	61	29	5	19
2	59	57	48	32	50	52	59	62	28	10	5
3	59	55	4	33	50	19	13	63	27	14	22
4	59	51	13	34	49		33	64	26	18	8
5	59	46	17	35		44	56	65	25	21	26
	59	40	16	36	48	32	28	66	24	24	15
7 8	59	33	II	37	47	55	6	67	23	26	37
	59	24	58	38	47	16	50	68	22	28	36
9	59	15	41	39		37	44	69	2I	30	8
10	59	5	19	40	45	57	35	70	20	31	16
11	58	53	52	41	45	16	57	71	19	32	21
12	58	41	20	42	44	35	20	72	18	32	28
13	58	27	44	43	43	52	51	73	17	32	32
14	58	13	3	44		10	1	74	16	32	18
15	57	57	21	45	42	25	36	75	15	31	.45
16	57	40	32	46	41	40	46	76	14	30	55
17	57	22	43	47	1 40	55	12	77	13	29	49
18	57 56 56	3 43 22	49 52	48	40 39 38	22	52	77 78	12	29 28 26	
19	50	43	52	49	139	21	49	79	II io	26	55
19 20 21	50		53	50	38	34	52 49 3	80	io	25	29 55 8
21	56 55	0		48 49 50 51 52 53 54 55 56 57 58	37			79 80 81 82 83 84 85 86	9	23	9 1 44 18 47 8 3
22	55	37	SI	52	36	56	23	82	98 76	21 18 16	I
23	55	13	50	53	36	6	33	83	7	18	44
24	54	37 13 48 22	59	54	37 36 36 35 34	45 56 6 16 24	33 23 33 33 53	84		16	18
25	)4		43	22	34		53	85	5	13	47
23 24 25 26 27 28	55 54 54 53 53 52 52	55 27 58 28	53 51 56 59 43 39 38 37 38	56	33	33	5 43	86	4	8	8
27	53	27	38	57	32	40	43	87 88	4 3 2	8	3
	52	50	37	58	31	47	43	88		5 2	39 49
29			30	59	30 30	54	90	89	I		49
30	51	57	42	160	30	0	0	190	, 0	0	0
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'Tis

'Tis plain, That by the preceding TABLE, having the Longitude of a Place, (whose Latitude is Known;) the Meridianal Distance, or us Easting, and Westing in Miles, from the Meridian of another Place, counted in the Proper Parallel of Latitude, is easily found: That is, The Longitude may be turn'd into Miles, by Multiplying the Degrees in the Longitude given,

by the Number of Miles Proportional to One Degree in the Lati-

tude given.

Thus the Longitude of Lisbon from London, is 10 Deg. West, its Latitude 39 Deg. North: At which Distance from the Equator (by the Table) One Degree of Longitude is esteemed Equal to 46', 37", 44". Therefore the Distance of Lisbon from the Meridian of London, is,

# (46'x10+37"x10+44"x10=) 466 7 Miles West.

In Order for finding the Longitude of any Place, 'tis necesfary to Observe,

ference of the Heavens, which is reckon'd to be 360 Degrees, passes from East to West, thro' the veridian of any Place, in 24 Hours; and consequently, by Proportion, 15 Degrees in One Hour, One Degree in 4 Minutes

of an Hour, &c.

2. That the Longitude of any Place, (being the Distance of its Meridian from the First Meridian, or some Fixed one,) is found, by finding the Dissertance of Time between the coming of any Point of the Heavens, or any Calestial Body, to one Meridian, and to the other: For the Dissertance of Time turn'd into Degrees, is the Longitude sought.

3. That if the Cælestial Body comes sooner, or earlier, to the First Meridian, than it does to

Meridian of the Place whose Longitude is sought; then that Place lies in Western Longitude; if later,

then in Eastern Longitude.

And the Difference of Time between the coming of any Ca-lestial Body to the First Meridian, and to the Meridian of any other Place, and consequently, the Longitude of that other Place, is found by these following Methods:

I. To find the Longitude of a Place, by an Eclipse of the Moon.

By a Clock, or Watch, duly Rectified, Observe at what Time the Moon, or any remarkable Spots thereof, enters into, or comes out of the Shade of the Earth; and compare the Time when any of these Circumstances happen at the Place where you make the Observation, with the Time of their happening at the First

First Meridian; The Difference of these two Times, being turn'd into Degrees and Minutes, is the Longitude fought.

II. To find the Longitude of a Place, by the Satellits of lupiter.

By a Clock, or Watch, duly Rectified, Observe the Time of Night; But at London, it happens the Immersion, or Emersion, of to be at 52 min. past Nine. any of the faid Satellits: Which Requir'd, The Longitude of that being compar'd with the Time Place from London? of Immersion, or Emersion, of

the same Satelles at the First Meridian; the Difference of Time reduced into Degrees, gives the Longitude fought.

EXAMPLE.

The Beginning or End of an Eclipse of the Moon; The Immersion, or Emersion, of a Satelles of Jupiter, is Observed at a certain Place, to be at Eleven at

Answ. 17 Deg.

For 11 h. 00 m. - 9 h. 52 m. = 1 h. 8 m. = 17 Deg.

any Place, by a Clock, or are. other Automaton, so Contriv'd, and Made, as to keep the same Uniform, Just, or of the Earth.

The Clock being Rectified to the Time at the First Meridian, or any Place from whence you Depart, ) shall, if duly attended afterwards, shew, in any Part of the World, the True Time at the First Meridian, for the Place from whence you Departed. ) Wherefore, having found likewise (either by the Sun's Altitude in the Day, or by some Star's Altitude in the Night.) the True Time at that Place to which you are come; The Difference between the Time thus found, and the Time of the Clock, being converted into Degrees and Minutes, shew the Lon-

III. To find the Longitude of gitude of the Place where you

Thus, in the former Example ; The Index of a Regular Clock, or Automaton, Rectified to the Me-Regular Motion, in all Parts ridian of London, and carried to the Place where the Observation was made, would point to 52 min. past Nine; when the Hour of the Night being found at that Place, by taking the Altitude of a Star, would be Eleven.

For finding the Longitude, at Sea, by means of the Course Steer'd, and Distance Run, Gc. either by the Meridional Paris, or by the Middle-Latitude-Sailing: (See Mercator's Sailing, or Middle-Latitude Sailing ) And the fame is found very readily, and fufficient for our Daily Practice at Sea, by the help of the Table of Difference of Latitude and Departure; as may be feen in the Use of that Table, in Mr. Jones's Treatife of Navigation, Edit. 24.

Eee 2

LOOF,

LOOF, or Louf of a Ship, is that Part of her aloft, which lies just before the Chest-Trees.

LOOF-Pieces, are those Guns which lie at the Loof of the Ship.

LOOF-Hook. See Hook.

LOOF-Tackle, is a small Tackle, serving to lift all small Weights in or out of a Ship.

LOOF, or Luff, is also a Word used in Conding of a Ship: As,

Luff! Keep your Loof! That is, Keep the Ship Near the Wind!

Loof-up! That is, Keep Nearer

the Wind!

To Loof into a Harbour; is to Sail into it, close by the Wind.

To Spring the Loof; is when a Ship, that before was going Large before the Wind, is brought

close by the Wind.

Ship, is her Perspective, as she appears at a Distance, Great or Little.

Gale of Wind, in which a Ship

can carry her Top-sails.

in the Coamings of the Hatches, for Close-Fights, and other Conveniencies.

LOUF, the same with Loof;

which fee.

LOW-Water. See Water.

LOXODROMIC-Line, is the Line of the Ship's Way, when the sails upon a Rhumb Oblique to the Meridian.

the Tables of Rhumbs, or the Traverse Tuble of Miles, with

the Difference of Latitude and Longitude; by which the Sailor may eafily find his Course, Distance, Latitude, or Longitude; and Practically Resolve all the Cases of Sailing.

LUFF, the same with Loof;

which fee.

LUST: The Ship has a Lust to the Starboard, or a-Port; that is, She is inclin'd to Heel that

way.

LYE under the Sea; is said of a Ship, when her Helm is lash'd fast a-Lee, and she lies so a-Hull, that the Sea breaks upon her Bow, or Broadside.

LYE a-Hull. See Hull. LYE a-Try. See Try.

### M

AGNETIC-Needle, is that Needle, or Wire, in the Card, or Flye of the Sea-Compass, which is Touch'd by the Magnet, or Loadstone; and hence has the wonderful Property of Pointing towards the Poles of the World. This Property of the Magnet was Discover'd by Roger Bacon, an Englishman, who lived in the Time of K. Edward the Third.

MAGNETICAL-AMPLITUDE.

See Amplitude.

MAGNETICAL - AZIMUTH.
See Azimuth.

MAGNETICAL-Meridian, See Meridian.

MAIN-Beam. See Beam.

MAIN-

MAIN-Capstan. See Capstan.
MAIN-Mast, MAIN Top-Mast,
MAIN-Top-Gallent-Mast. See
Mast.

MAIN-Misen. See Masts.

MAN of War; that is, a

Ship of War. See Rate.

MAN a Ship, or Fleet; is to Provide them with a sufficient Number of Men, for an Expedition.

In Manning the Navy, 'tis usual to Promise, by Proclamation, a Bounty to all Seamen, and Able-bodied Landmen, who come into the Service by a certain Time; which is frequently Two Months Pay, and feldom more. This does indeed prevail upon Many; but yet great Numbers do conceal themselves until the Fleet is at Sea, and Others lurk about even till the Time limited, for fuch Bounty, is near expired; which does in no little measure prevent the Fleer's being in a Readiness for an Early Campaign.

And as Seamen are thus Encourag'd to Enter themselves Voluntarily, so is there another Method used, to Compel them to it; and that is Pressing, by Warrants from the Lord High-Admiral to the Captains, and by them Assign'd to their Lieutenants: And to render this the more Essectual, Vessels are purposely Hired into the Service, to proceed from Place to Place, with those Officers, and their Press-Gangs, not only to Receive Voluntiers, but to Impress what

Men they can light on: But their Success has bin very uncertain, and always very Expensive; Therefore it were much to be wish'd, in a Matter of so great a Consequence to the Nation, that more Speedy and Essetual Methods could be taken for Manning the Fleet.

MAN the Capstan! See Cap-

Stan.

MAN the Top! or Tard!
That is, when the Men are Commanded to go up to the Top, or Tard, for some particular Service.

MAN the Side! or Ladder! That is, when an Officer, or any Person of Fashion, is at the Ship's Side, ready to come aboard, the Men are Commanded to Wait, and help him up the Side.

MANGER, is a Circular Place, made with Planks fasten'd on the Deck, right under the Hawses; for to receive the Sea-Water, beating in at the Hawses, in a Stress of Weather.

MARINE, of or belonging to the Sea; from Mare, the Sea.

MARINER, a Seaman. See

Sailor.

MARINERS-COMPASS. See Compass.

MARINES, are Sea-Soldiers.

MARK, Land-Mark. See Land.

MAR-LINE, a small Line of untwisted Hemp, very plyable, and well Tarr'd; serving to seize the Ends of Ropes, and keep them from Ravelling out; or the Straps at the Arse (or Lowerend) of the Blocks.

Eee 3

MAR-

MAR-LINE a Sail; that is, when the Sail is rent out of the Bolt-Rope, to make it fast with Mir-Line, put thro' the Eye-let-Holes made in it for that purpose, unto the Bolt-Rope, till it can be Mended.

MAR-LINE-Spike, is a little Piece of Iron, to splice small Ropes together; as also to open the Bolt Rope, when the Sail is

fow'd unto it.

MARTNETS, are small Lines made fast to the Leetch of the Sail, and reev'd thro' a Bock at the Topmast-Head, and so they come down by the Mast to the Deck. They serve, in Furling the Sail, to bring that part of the Leetch, which is next the Yard-Arm, close up to the Yard, so that the Sail may the better be Furl'd up.

Top-MARTNETS, are those which belong to the Top fails; they are made fast to the Head of the Top-Gallant-Mast, and their Fall comes down only to

the Top.

Tp the Marinets! That is,

Hale them up!

MASTER-ATTENDANT. See

Officers.

MASTER of a Ship, is the next Officer to a Lieutenant; he has the general Conduction of the Way, and Sailing of the Ship, in his Charge and Care: He Directs, and Shapes the Course that she is to Sail; and Commands all the Sailors, for Sceering, Trimming, and Sailing the Ship: He is to keep the most

accurate Account of the Ship's Way, and be at all times able to give Estimate, or Prick off her Place on the True Sea-Chart. He has Mates, to assist him in his Office.

In Merchant-men, the Mafter

is the Chief-Officer.

MASTS of a Ship; of which, the Principal ones, are, the Main-Mast, Fore-Mast, Misen-Mast, and

Bompprit.

Main-MAST of a Ship, is a long Piece of Round Timber, flanding upright in the Middle, or Wast of the Ship; it carries the Main-Tard, and Main-Sail. Its Length, according to some should be  $2\frac{1}{2}$  of the Length of the Midship-Beam. Others give this Rule, for finding what Length it should be; viz.

Multiply the Breadth of the Ship (in Feet) by 24: From the Product, cut off the last Figure towards the Right-Hand; the rest shall be the Length of the Main-

Mast in Feet.

As for EXAMPLE: Suppose the Length of the Midship-Beam was 30 Feet; 24 times 30 is 720; then cutting off the last Figure, there rests 72 Feet, the Length of the Main-Mast required.

As for the Thickness of the Main-Mast, 'tis usual to allow an Inch to every Tard in Length.

Fore-MAST of a Ship, is a Round large Piece of Timber, standing in the Fore-part, or Fore-Castle, of the Ship; it

Tard. It's Length, by some, is to be \( \frac{8}{9} \) of the Main-Mast; and by others, \( \frac{4}{5} \) thereof.

Misen-MAST of a Ship, stands aft, in the Sternmost-part of the Ship: In some Great Ships there are two of these; that next the Main-Mast, is call'd, the Main-Misen; and that next the Poop, the Bonaventure - Misen. The Length of the Misen Mast, is, by some, accounted the same with the Height of the Main-Top-Mast from the Quarter-Deck; or Half the Length of the Main-Mast, and Half as Thick.

Top-MASTS of a Ship, are those made fast, and secure unto the Heads of the Main-Mast, Fore-Mast, Misen-Mast, and Bow-sprit respectively. See Top.

Top Gallant-MASTS of a Ship, are those set fast on the Head of the Main, and Fore-Top-M sts; whence are call'd, the Main-Top Gallant-Mast, and Fore-Top-Gallant-Mast: They carry Flag-Staffs on their Tops, whereon the Flags, Pendants, &c. hang.

Jury-MAST: When a Mast is born by the Board, in a Storm, or Fight, the Seamen set up, in the room of it, another made of Yards, or other Pieces of Timber, such as they can get, spliced, or fish'd together, woulding them with Ropes: With this they make a shift, till better provided; and they call it, a Jury-Mast.

OL VI

Armed-MAST; that is, made of more than one Tree.

Mast a Ship, is to set up her Masts; wherein great Care ought to be taken.

Masted: A Ship is said to be Masted, when she has all her

Masts compleat.

over-Masted, or Taut-Masted, when her Mastes are either too-Long, or too-Big; which makes her lie too-much down by the Wind, and Labour too-much a-Hull.

Under-Masted, or Low-Masted; when her Masts are either too-Small, or too-hort; in which case, she cannot bear so great a Sail as should give her true Way.

To Spend a Mast; is when it is

broke by Foul-Weather.

To Spring a Mast; is when 'tis Crack'd in any Place.

MAST-Steps. See Steps.

MATES, are Affistants to the several Officers a-board a Ship; as, Master's Mates, Surgeon's Mates, Gunner's Mate, Carpenter's Mate, Boatswain's Mate, Cook's

Mate, Corporal's Mate.

MATS, are a kind of thick Clouts, wove out of Spun-Yarn, Sinnet, or Thruns; they are used, to preserve the Main and Fore-Tards from galling against the Masts, at the Tyes, and at the Gunnel of the Loof: They also serve to keep the Clew of the Sail from galling there; and to save the Clews of the Fore-Sail at the Beak-head and Bomsprit.

Ecc 4 MERCA-

MERCATOR'S OF WRIGHT'S Chart, or Frojection, is the True Projection of the Globe in Plano: It differs from the Common Plain Chart, in this; That on the I lain Chart, the Meridians are Right Lines, all Parallel one to the other, and consequently do never meet; yet they cut the Equator, and all Circles of Latitude, at Right Angles, in the Globe: And all Parallels to the Equator (being Lesser Circles) are here made Equal to the Equator it self (being a Great Circle, ) and therefore the Degrees of those Parallel (or Leffer Circles) are Equal to the Degrees of the Equator, or any other Great Circle; which is manifestly false, and contrary to the Nature of the Globe. For the Meridians on the Globe do all meet in the Poles of the World, cutting the Equator, (and therefore all its Parallels,) at Right Angles: therefore all such Parallels do grow leffer towards either Pole, decreasing from the Equafor: As for Instance; 360 Degrees, or the whole Circle in the Latitude of 60 Degrees, is but 180 De rees of the Equator: Whereas in the Plain Chart, that Parallel, and all others, are made Equal one to the other, and to the Equator.

The Meridians in Mercator's Chart are also Right Lines, all Parallel one to the other, and cross the Equator, and its Parallels at Right-Angles, as in

the Plain Chart. But here. tho' the Circles of Latitude are Equal to the Equinoctial, yet they keep the fame Proportion with the Meridian; because the Degrees thereon are Lengthen'd, as the same Parallels on the Globe do Lessen: In the Plain Chart, the Degrees of the Greater and Lesser Circles are Equal; and in this, tho' the Degrees of the Circles of Latitude are Equal, yet the Degrees of the Meridian are Unequal, being enlarged from the Equinodial towards either Pole, to retain the same Proportion as they do on the Globe it felf: For, as Two Degrees of the Parallel of 60 Deg. is but One Degree of the Equinoctial, (or any Great Circle; ) so here, Two Degrees of the Equinochial is Equal but to One Degree of the Meridian betwixt the Latitude of 59 ½ deg. and 60½ deg. and fo of the rest. See Chart.

The USE of this Chart.

I. To find the Latitude of any Place in the Chart.

RULE. Take the nearest Distance of the Place to any Parallel, or East and West Line.

Then lay that Distance on the Graduated Meridian, setting one Foot of the Compasses in the said Parallel, and turning the other Foot the same Way the proposed Place lies from it; the last Foot shews the Latitude required.

II. To find the Longitude of any Place in the Chart.

RULE. Take the nearest Distance from the proposed

Place to the Meridian.

Move the Compasses (being kept at that distance) with one Foot on the said Meridian, till both Feet come to the Equator; and the Foot which stood on the Proposed Place, shews its Longitude sought.

III. To find the Course or Bearing of one Place from another.

1. If the Chart is made with Rhumb-Lines, or Points of the Compass, drawn in it.

Rule. Lay a Ruler on the

two Places given.

Take the nearest Distance from the Centre of any Com-

pass to the Ruler's Edge.

Move the Compasses, (being at that Distance,) with one Foot close to the Ruler, and the other Perpendicular to it: In so moving the Perpendicular Foot, among the Rhumb-Lines, will shew the Course, or Bearing, of the Proposed Places.

2. If the Chart have only Meridians and Parallels drawn thereon.

In such Charts, one Quarter of the Compass is drawn in one of the Squares, and sometimes Half Points, and Quarter Points;

Whereby the Course may be found more accurately than by the Rhumb-Lines only, by this

Rule. Lay a Ruler on the two Proposed Places, keeping

it steady there.

Observe (by the Ruler's Edge) whether two Meridians, or two Parallels, are nearest to one another: If two Parallels be nearest, the Course is Less than Four Points from the Meridian; but if Two Meridians, 'tis More.

Then take the Distance of those which be nearest, and apply it to the Square, having Part of the Compass in it; setting one Foot in the Centre of the Compass, the other being turn'd to the side of the Square, will, according to the foresaid Conditions, shew the Course, or Bearing, required.

IV. To find the Distance of any two Places on the Chart.

#### CASE I.

i.e. such as differ only in Latitude; to find their Distance.

Rule. Find the Difference of Latitude between the given Places; and that will be the Distance required.

#### CASE 2.

Two Places under the Equinoctial; to find their Distance,

RULE.

RULE. Find the Difference of Longitude between them; and that will be the Distance fought.

#### CASE 3.

Two Places in one Parallel, i. e. such as Differ only in Longitude, being given ; to find their Distance.

Rule. Take the Distance between the given Places in the 2016 CALL SE DEC

Compaffes.

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Lay that Distance on the Graduated Meridian, fo that one Foot may be as many Degrees above the Latitude of the given Places, as the other below it: There stay the Compasses.

Count the Degrees between the Feet of the Compasses; and that will be the Distance re-

quired.

#### CASE 4.

Beweine, regulated.

Two Places Differing in Latitude and Longitude being

RULE. Take their Difference of Latitude from the

Equator.

Laying a Ruler on both given Places, apply that Distance so to the Edge thereof, that when The French Geographers and one Foot is placed close to the Hydrographers, begin to Reckon Ruler, and the other turn'd their Longitude from the Westround about, it may just touch part of Fero, one of the Casome East and West Line cross'd nary Isles, making the Meridian by the faid Ru'er's Edge: There of that Place the First Meridian. stay the Compasses.

Then the Distance (by the Ruler's Edge ) from the Place where the Compasses rested, to that Place where the Ruler crosses the aforesaid East and West Line, measured on the Equinoctial, gives the Distance required.

MERCATOR'S Sailing. See Sailing.

MERIDIAN, is a great Circle paffing thro' the Poles of the World, and both the Zenith and Nadir; crosses the Equinoctial at Right Angles, and divides the Sphere equally into a Western and Eastern Hemisphere; Its Poles are the West and East Points of the Horizon: 'Tis call'd Meridian; because when the Sun comes to that part of this Circle which is above the Horizon, 'tis then Meridies, Mid-Day, or High-Noon.

First MERIDIAN, is that from whence the Longitude is Reckon'd: For the Meridians given; to find their Distance. are Various, and Change according to the Longitudes of Places; and therefore may be faid to be infinite in Number, fince all Places from East to West have their leveral Meri-

dians.

. The Dutch, from the Teneriff. Prolemy Ptolemy placed the First Meridian One Degree beyond the Fortunate, or Canary Isles. After the Discovery of America, it was fix'd in St. Nicolas, one of the Cape Virde Isles, by the Portugueeze. Hondius placed it at St-Jago. Mercator, at Corvo,

one of the Western Isles.

So that the First Meridian is altogether Arbitrary: And indeed, 'tis enough for all Purposes, if we know the Difference of Meridians; which will (or should) be found the same in And therefore, all Authors. every Astronomer and Geographer, generally makes his own Meridian the First. But at Sea, we commonly reckon our Longitude from the Meridian of the Place departed from, or last seen, making that our First Meridian till we see another known Land, and no longer.

of the Sun, or Star; is the Altitude of the Sun, or Star, when they are on the Meridian of the Place: Or an Arc of the Meridian intercepted between the Horizon and the Sun or Star.

Magnetical MERIDIAN, is a great Circle which the Magnetic-Needle, or the Needle of the Mariners-Compass, or the Meridian of the Compass, only respects.

Me idional-Distance, is the Difference of Linguisde between the Meridian under which the Ship is at present, and any other Meridian she was under before,

Meridional-Parts, Minutes, or Miles, are the Parts by which the Meridians in Wright's or Mercator's Chart do Encrease, as the Parallels of Latitude Decrease.

The Co. Sine of the Latitude of any Place being Equal to the Semi-diameter, or Radius of that Parallel; Therefore, in Mercator's. or the True Sea-Chart, this Radius being the Radius of the Equinodial, or Sine of 90 Degrees; the Meridional Parts at each Degree of Latitude must Encrease, as the Secants of the Arc contain'd between the Latitude and the Equinoctial do Decrease. Therefore these Meridional Parts thew how many Parts every Degree and Minute of Latitude is from the Equator, that is, of fuch Parts as a Degree of the Equator contains 60 of them. And Tables of these Meridional Parts you have ready Calculated in mosts Books of the Piloting Part of Navigation; they are not only Uteful in Working the several Cases in Mercator's Sailing, but also, in Making or Graduating Mercator's Charts.

MESS: The Ship's Company is generally divided into several Messes, of Three or Six in a Miss; that is, so as their Victuals might be the more easily distributed and given out to so many at once, who jointly Diet together; and their Share, or Proportion of Victuals, is call'd, a Mess.

MIDDLE-Latitude. See Latitude.
MIDDLE-

MIDDLE-LATITUDE-SAILING, is a Method of Working the feveral Cases in Sailing, nearly agreeing with Mercator's Way, but without the help of Meridional Parts.

#### CASE I.

Given, Latitudes and Longiundes, of any Two Places; Required, Their Bearing and Distance?

r. To find the Bearing, or Course, say,

As the Difference of Latitude, Is to the Co-Sine of the Middle-Latitude;

So is the Difference of Longitude, To the Tangent of the Course.

2. To find the Distance, say,

As the Co-Sine of the Course, Is to the Radius; So is the Difference of Latitude, To the Distance.

#### CASE 2.

Given, Latitudes, and Bearings; Requir'd, Difference of Longitude?

The Proportion is,

As Co Sine of the Middle Latitude, Is to the Difference of Latitude; So is the Tangent of the Course, To the Difference of Longitude.

#### CASE 3.

Given, Latitudes, and Departure; Requir'd, Difference of Longitude?

Find the Course, by Case 6. of Plain Sailing:

Then find the Difference of Longitude, by Case 2. of this.

#### CASE 4.

Given, Latitudes, and Distance; Requir'd, Difference of Longitude?

1. Find the Course, by Case 5. of Plain-Sailing:

2. Then find the Difference of Longitude, by Case 2. of this.

And after the same manner, all the Common Cases in Mercator's Sailing are wrought.

MID-SHIP-Beam. See Beam. MID-SHIP-Men, are Officers on-board a Ship; their Station, when on their Watch, is some on the Quarter-Deck, others on the Poop, &c. They mind the Braces, Look-out, and give the Word of Command from the Captain, and their Superior Officers: They affift on all Occafions; both in Scowing and Rummidging the Hold, and Sailing the Ship: They are generally Gentlemen upon their Preferment, having Serv'd the limited Time in the Navy as Volunteers.

MINUTE, or a Mile, is the 60 Part of a Degree of a Great Circle.

Half-Minute-Glasses, are such as the Sand Hour-Glasses, only these run out in Half a Minute of Time; and are used in Heaving the Log. See Log.

MISEN, Misson, or Mizen, is either Mast, or Sail. See Mast

and Sail.

Note, That at Sea, when we use the word Misen, we always

mean the Sail.

The Use of the Misen, is to keep the Ship close to a Wind: Wherefore, if a Ship be apt to gripe too-much, they use no Misen. But 'tis often used, when a Ship rides at Anchor, to back her a-stern, so that she may not foul her Anchor, on the Turning of the Tide. And sometimes a Ship lies a-Iry with her Misson only.

Set the Misen! That is, Fit the Misen-Sail right as it should

ffand!

Change the Misen! That is, Bring the Misen-Tard over to the other side of the Mast!

Peek the Misen! That is, Put the Misen-Tard right up and

down by the Mast!

Spell the Misen! That is, Let go the Shear, and Peek

ic up !

Main-Misen,
Bonaventure-Misen,
Misen-Top-Mast.

Misen-Sail. See Sail.
Misen-Stay. See Stay.
Misen-Tard. See Tard.

MOAR, See Moor.

MONSOONS, are Periodical Winds in the Indian Sea; that is, Winds that blow for Half the Year one way, and the other Half upon the opposite Points: And those Points, and Times of Shifting, are different, in different Parts of the Ocean. And in some Places, 'tis Constant for Three Months one way, then Three Months more the contrary way, and so all the Year.

by sewing the Edges or Selvedges of the Sails together, one over the other; sewing it both Sides,

to make it the ftronger.

MOOR; To Moor a Ship, is to lay out her Anchors, so as is most convenient for her safe and secure Riding. A Ship is not said to be Moor'd, unless she has at least Two Anchors out; except when she is Moor'd an Proviso.

To Moor a Fair Birth; that is, in a Place free from any

Annoyance.

To Moor a-Cross, or a-Thwart; is to lay one Anchor on one fide of the Stream, and the other right against it on the other fide; so that they bear equally, as well at Tide of Ebb, as at Flood.

Anchor in the middle of the Stream a-Head, another a-Stern; when 'tis fear'd the Ship may drive a-shore.

A Laboure of the land

To Moor Water-Shot ; is to Moor neither a-Longst por a-Thwart the Tide, but Quartering between both.

To Moor a Proviso; is to have one Anchor out, and a Hawfer a shore; then the Ship is Moor'd with her Head a Shore: And Two Cables is the leaft, and Four the best to Moor by.

Mooring for North, West, &c. In an open Road, the Master and Pilots will Moor, or lay out an Anchor on that Point of the Compass they think the Wind is likelieft to endanger the Ship.

MUNITION-Ships, are those which have Stores on-board, for . NAILS; as Tree-Nails. See to Supply the Necessaries required by a Fleet of Men of

War at Sea,

In Time of an Engagement, all the Munition-Ships and Victuallers attending the Fleet are to take their Places and proper Stations in the Rear of all the reft, and not Engage themselves at all in the Fight; but to attend fuch Directions as shall be fent unto them, at all times, by the Admiral.

MURDERERS; are small Pieces of Ordnance, either of Brass or Iron, having Chambers, or Charges, made of Brass or Iron, put in at the Breeches: They are used at the Bulk-heads of the Fore-Caffile, Half-Deck, or Steerage, in order to Clear the Deck, when an Enemy Boards the Ship; they are fasten'd, and travers'd, by a Pintle, which is put into a Stock.

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ADIR, is that Point in the Heavens, which is Diametrically opposite to the Zenith Point directly over our Head; or is the Lower Pole of the Horizon, because distant from it, every way, 90 Degrees.

NAILING of a Gun; 13 driving of a Nail, Iron-Spike, or the like, by Force, into the Touchhole of a Piece of Ordnance, fo as to render it useless to the

Enemy.

Tree.

Skupper-NAILS. See Skuppers.

NAVIGATION, is the Art of Conducting a Ship from one Place to another: And may be diffinguish'd into Two Parts, viz. the Piloting, and the Workingpart.

Piloting-part of Navigation, may be also, either Common, or

Proper.

Common Piloting, is Sailing in fight of Land, or Coasting nigh Shore: The Lead, and Compafe, with a competent Knowlege of the Lands, are chiefly required for the Performance thereof.

Proper Piloting, gives Directions upon what Course to Steer to any Place defired: As alfo, when at Sea, shews the Place the Ship is in; how far the has failed; how far fhe has to fail; and how all Places bears from

her,

her, at any time: And this by means of the Latitude, Log, and Compass; and by the several Methods of Sailing, as Plain, Wright's, &c. See Sailing.

Working-part of Navigation, Thews the Method of giving that Noble Fabrick, a Ship, all the Motions and Directions its cap b'e of, so as to perform the Navigator's Pleasure, and be govern'd

at his Will, in all Cases.

The Theory, (which is the . True Foundation of all Practice ) of this Part of Navigation, as it is more Useful, so it is more Intricate, and has more of Arr, than the other Part; yet 'tis never Taught by any, nor perhaps thought of by many, who Profess the Art. Therefore the Practice thereof is usually gain'd at the Expence of the greatest and Choisest part of Man's Time; and that only by a constant habit of a necessitated Form of Working, without being much beholden to Reason, or its Laws, or any prescribed Rules deduced from them. .

Thus, they who would be fufficiently acquainted with the Practices at Sea, and Management of a Ship ; must receive their Inftructions from our Common Mistress, Experience, who teaches Truth, by Tryal, to all alike. So that it would be particularly Advantageous for those Gentlemen that defign for the Sea, to be perfectly acquainted with the Theoric-part; fince it will

lead them directly to, and abundantly shorten the Time of at-

taining the Practice.

NAVIGATORS: By this word is usually meant, Persons capable of Carrying or Guiding a Ship to any Place defired.

NAUTICAL-Chart, or Pla-

nisphere. See Chart.

NAUTICAL-Compass. See Com-

p.7/9.

NEALED: If the Sounding be Nealed to; that is, if it be Deep-Water, close the Shore; or if the Lee-shore be Sandy, Clayie, Oafie, or Foul and Rocky-Ground.

. NEAP-Tides. See Tides.

NEAR! No Near! a Word of Command from him that Con's the Ship, to the Man at Helm, requiring him to let her fall to the Lee-ward.

NEEDLE. See Magnetic-

Needle.

NETTINGS, are finall Ropes feiz'd together Gratingwife with Rope-Yarn, and fometimes made to stretch upon the Ledges from the Wast-Trees to the Rouf-Trees, from the Top of the Fore-Castle to the Poop: And sometimes are laid in the Wast of a Ship, to serve instead of Gratings.

NETTING-Sail. See Sail.

NIPPERS, are fmall thort Ropes, w tha little Truck at one end, and sometimes only a Wall-Knot : They serve, to help bold off the Cable from the Main, or Jeer-Capstan, when 'tis fo flimy, fo wet, or fo great,

that

that they cannot strain it, to hold it off, with their bare Hands.

MOCTURNAL, is an Instrument made of Wood, Ivory, or Brass, divided on both sides: It's Use is, to take the Altitude or Depression of the Pole-Star, in respect to the Pole it self; in order to find the Latitude of the Place; or making an Estimate, or near Guess at the Hour of the Night.

NORTH, one of the Four Cardinal Points of the Mariners-Compass; 'cis generally mark'd with a Flower-de-Luce, and is directly opposite to the South

Point.

NORTH-Declination. See De-

NORTHERN--Hemisphere. See Hemisphere.

NORTHERN - Tropic. See

Tropic.

NORTHING, is the Difference of Latitude a Ship makes in Sailing to the Northward. See Difference of Latitude.

NORTH-Pole; a Point in the Northern-Hemisphere of the Heavens, 90 Degrees every way Di-

Stant from the Equinoctial.

NORTH Star, or North-Pole-Star, is in the Tail of the Urfa-Minor; and is so called, as being not above Two Degrees and a Half distant from the Pole, and seems, to the naked Eye, as if in the same Place.

NORTHWARD; that is, to-

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Ockham, as Okum, or Ockham, are old Ropes Untwifted, and torn in Pieces, and pull'd again out into loose Hemp, like Hurds of Flax; that it may be driven into the Seams, Trennels, and Rends of a Ship, to stop, or prevent a Leak.

OAR, is a long Piece of Wood, whose End which is in the Water is made Thin and Broad, for the easie cutting and resisting the Water, and consequently, for moving the Ves-

fel.

OAZY, Oasie-Ground; that is, Soft, Slimy, or Muddy-Ground: This is no good Anchoring-Ground; because the Anchor here cannot hold firm, but will come home, or give way in stress of Weather; and will also rot the Cables, if a Ship ride long over such Ground: But such Ground is good to bring a Ship a-ground upon, because she can there Dock her self, and lie soft; but yet if she lie long, she will rot her Plank, and spoil the Oakum in her Seams.

OBLIQUE. Horizon. See Ho-

rizon.

OBLIQUE-Sphere. See Sphere.

or Star, is usually made when the Sun or Star is in the Meridian; by a Quadrant, Cross-Staff, or the

like Instrument, in order to find

the Latitude of the Place.

To Work an Observation; is, To Find the Latitude of the Place, has Two Cafes.

CASE I.

When the Observ'd Object by having the Sun or Star's does both Rife and Set, and Meridian Altitude, by Observation, consequently has but One Meriand the Declination given. It dian Altitude in the space of 24 Hours.

#### RULE

The Meridian Altitude & the same } Kind; the & Difference & and Declination of & contrary } Kind; the & Sum

NOTE.

of the Zenith Distance, and Decli- 1. Where the Meridian Altination, is the Latitude of Place tude and Declination is of the fought. fame Kind:

If Decl. be { Greater } than the Zenith Dist. { the same } the Latitude is of { contrary } Name to the Declination.

2. But where the Meridian Altitude and Declination is of Diffesame Name with the Declination.

CASE 2. When the Observ'd Object rent Kind, the Latitude is of the does not Rise, or Set, and therefore has Two Meridian Ala titudes in the space of 24 Hours.

#### RULE.

The Observ'd Object & below } the Pole; The & Sum being on the Merid. & above } the Pole; The & Difference &

of the Meridian Altitude, and Complement of the Declination, is the required Latitude, of the same Name with the Declination.

from wxews, cito; and vaw, 1-luo, is that Vast Collection of Salt and Navigable Waters, which Compasses the whole Earth: "Tis join'd to the Mediterranean-

OCEAN, [Gr. 'Oxeavds, Sea by the Strait of Gibraltar 3 And its several Parts, have Names of Diftinction from those of the adjoining continents, or their Bearing from them. As,

1. With respect to EUROPE, there are,

The Hyperborean Ocean, enclosing Europe on the North.

The Western Ocean, euclosing

Europe on the West.

# 2. With respect to ASIA, there are,

The Tartarean and Chinean Oceans, enclosing asia on the North, and East.

Oceans, ecolofing it on the

South.

# 3. With respect to AFRICA, where are,

Oceans, enclosing Africa on the West, and South.

The Oriental Ocean, on the

4. With refrest to AMERICA there are,

The Pacific Ocean, enclosing

The Vast Eastern Ocean, en-

But the Universal Ocean may more pr perly be Divided into Three Parts, viz.

orean; lying between Africa, and America.

between Africa, and the Indian Islands, and Hollandia Nova.

3. The Great wouth Sea, or

the Pacific Sea; lying between the Philippine Isles, China, Japan, and Holland'a Nova on the West; and the Coast of America on the East.

OFFICERS and Offices belonging to Naval Affairs, are those that have the Care of Giving Orders and Directions, alfo, of Providing and Fitting out of Ships, and Naval Stores; as those of the Admiralty, Navy-Office, Victualling-Office, Dock-Tards, &c. The Sea-Officers, are the Flag-Officers; as, Admiral, Vice-Admiral, and Rear-Admiral: And other Commillion'd-Officers, as Captains, and Lieutenants; with Warrant-Officers, as Master, Gunner, Surgeon, Purser, Boatswain, Garpenter, Cook, &c. And other Petty Officers, as Mates, Midship-men, Corporal, Coxswain, Quarteers, &c. Who have each their several Duties affign'd them, as may be feen, under the Words of their respective Titles.

At each Dock-Tard there is a particular Store-Keeper, for the Receipt and Issue of all Naval Stores: And as other Officers, namely, the Master-Attendant, Master Shipwright, Clerks of the Cheque, and Survey, are more or less a Cheque on the said Store-Keeper; so is there One of the Principal Officers & Commissioners of the Navy particularly Appointed to Reside at, and Inspect into Affairs of the Principal Tards; and Another, who Assists

at the Board in the Nary-Office, is charged with the Examining and Adjusting the Store Keepen's A counts, as a Second is those of the Treasurer of the Navy, and a Third the Accounts of the Victualling. And as each of the aforefaid Warrant-Officers in the Tards have their particular Duties affign'd them; viz. The Mafter-Shipmright, in Building of Ships; the Master-Attendant, in the Proportioning Rigging for them, and putting it over Head, laying out Moorings, and removing Ships from one Mooring to another, with several other Services; so are these Clerks of the and the Ships Companies within a-Ground, does Heel towards their Reach, and Chequing them out of Wages when Ablent: And both They, and the Clerks the Off-ward, and Head to the of the Survey Inspect into all Stores Deliver'd, to see that lies towards the Sea, and Head th y Answer to Contract, both in Quantity, and Quality.

of the Commissioners refiding on the Main-mast to the Misen. the Place. Those Inferior Offi- OVER-Blow; that is, when Master-House-Carpenter, Master- Sails. them their particular Duties grown-Sea. aiflign'd.

OFFING, or Offin, is an open Sea, a good Diftance from the Shore, where there is Deep-Water, and no need of a Pilot to Condict the Ship into the Port, or Harbour. Allo, the Middle-part of any great Stream - 1s call'd Offing.

The Ship stands for the Offing; that is said of a Ship, seen from Shore, failing out to Sea-ward.

The Ship is in the Offing; that is, She has the Shore near her, and having another a good way without her, or towards the Sea.

OFF-WARD; that is, con-

trary to the Shore.

Cheque Employ'd in the Muster- The Ship Heels Off-ward; that ing the Workmen in the Yards, is faid of a Ship, that being the Water-fide.

> The Skip lies with her Stern to Shore-ward; that is, Her Stern to the Shore.

ORLOPE, in a Three-Deck'd-Bifides these Principal Officers Ship; the Second, and Lowest in the Yards, there are Others Decks, are sometimes call'd inferior to them, but All are Orlope. Also, the Spare-Deck under the immediate Command in a Great Ship reaching from

cers are Affistants to the Master- the Wind blows so very hard, Shipwright, Master - Caulker, that the Ship can bear no Top-

Joiner, Master-Boat-builder, Master- OVER Grown: When the Mast-maker, Fore-man both on Waves of the Sea grow high, Shore, and a-Float, Boatswain of the Mariners call it Rough Sea: the Yard, Master-Sail-maker, and but when the Surges and Billows the like, who have also each of grow higher, 'then 'tis an Over-

Fit 2 OVER- OVER-Hale the Runner. See

OVER-Hale the Sheat. See

Sheat.

OVER-Rake. See Rake.

OVER-Set, or Over-Throw a Ship, is to bring her Keel upwards, either by bearing too-much Sail; or by Grounding her, so that she falls upon one Side.

OUTLICKER, is a finall Piece of Timber, made fast to the top of the Poop, and fo flands out right a-Stern : At the outmost end thereof there is a Hole, into which the standing part of the Sheat is reev'd thro' the Block of the Sheat; and then again reev'd thro' another Block which is feiz'd close by the end of this Outliefer: 'Tis seldom used in great Ship, except the Misen-Mast is placed so far aft, that there is not room enough within board to hale the Sheat flat.

OX-EYE, a Name given by Seamen, to those dreadful Storms, that are fometimes met with on the Coast of Guinea; for at first it appears of the Form of an Ox's-Eye, and not much bigger; But it descends with fuch Celerity, that in a very little space, and many times before they can prepare themselves for it, it seems to them to overspread the whole Hemisphere; and at the same time, forces the Air with fo much Violence, that the Ships are sometimes scatter'd several ways,

See sometimes directly contrary, and sometimes are sunk down-

P

PANCH, or Pantch. See

PANTER, Shank-Panter. See

Shank.

PARALLELS of Latitude, are Circles imagin'd to be drawn Parallel to the Equator, thro' every Point of Latitude; and therefore are Lesser Circles, consequently a Degree, or the 360th Part of any Parallel of Latitude, must be less than an Equinoctial Degree, or that of any Great Circle, and that in the same Proportion as the Radij of these Circles, that is, as the Co-Sine of the Latitude, to the Radius or Sine of 90 Degrees.

PARALLEL-Horizon. See Ho-

rizon.

PARALLEL-Sailing: By Parallel-Sailing, is meant, Sailing under a Parallel of Latitude. It has these Cases.

#### CASE I.

Given, Difference of Longitude, and Distance of two Places in the same Latitude; Requir'd, the Latitude?

### Proportion:

As the Difference of Longitude, Is to the Radius; So is the Distance, To the Co-Sine of the Latitude.

CASE

CASE 2.

Given, The Difference of Longitude between two Places in the same Latitude; Requir'd Their Distance?

Proportion. As the Radius, Is to the Difference of Longit. So is the Co-Sine of the Lat. To the Distance.

CASE 3. Given, The Distance between two Places in the same Parallel; Longitude?

Proportion. As the Co-Sine of Latitude, Is to the Distance; So is the Radius, To the Difference of Longitude.

PARALLEL - Sphere. See

Sphere.

PARBUNCLE, is a Rope fomewhat like a Pair of Slings; 'tis seiz'd both Ends together, then put double about any heavy thing that is to be hois'd in, or out of the Ship: By means of this, a full Veffel may be hois'd in, without spilling; by putting it upon these Ropes fet crofswife, and bringing the Loops over the upper-end of the Cask, then fixing the Tackle to them, the Veffel will ftand upright.

PARCEL: To Parcel a Seam; that is, after a Seam is Caulk'd, to lay over it a narrow Piece

of Canvase, and pour on it hot Pitch and Tar.

PARRELS, are Frames made of Trucks, Ribs, and Ropes, which go round the Masts, and made taft so to the Yards, that they may flip up and down the Masts the easier; and with the help of the Breaft-Ropes, keep the Yards close to the Maits.

PARTNERS, are strong Pieces of Timber, bolted to the Beams, incircling the Masts, to keep them fleady in their Steps. These Partners are also at the Second Deck, for the same Purpose: Requir'd, The Difference of But the Misen-Mast has only one Pair of Partners; and yet that Maft is so firmly wedg'd in them, that it cannot ftir, by any means. Tho' some Ships do not sail well, except their Masts be loose, and have leave to play in the Partners: Yet, in a Storm, this is very Dangerous; left the Partners should be wrong'd, and forced out of their Places; for then there is hardly any other Remedy, than Cutting the Mast by the Board.

PASSARADO, is a Rope whereby all the Sheat-Blocks of the Main and Fore-Sails are haled down Aft; The Clew of the Main-Sail to the Main-Mast, and the Clew of the the Cat-Head. Fore-Sail to This is to be done, when the Ship goes large; and they are also kept down firm, and hindred from flying up, by this

Passarado-Rope.

PAUNCH, Pantch, or Panch, Fff 3 are are broad Clouts woven of Thrums and Sinnets together, to fave things from galling and fretting; therefore are made fast to the Main, and Fore-Yards,

for that Purpose.

PAWL, is a small Piece of Iron bolted to one end of the Beams of the Deck, close by the Capstan, but yet so easily, as that it can turn about. Its Use is, to stop the Capstan from turning back, by being made to catch hold of the Whelps.

Pawling the Capstan. See

Capftan.

PAY: To Pay a Seam; that is, after Caulking, to lay hot Pitch and Tar on, without Can-

vase. So that,

Paying a Ship, is laying a Coat of hot Pitch, or the like, over the Scams of a Ship: And when a Ship is well Caulk'd, and Pay'd over with hot Pitch, she is much the lighter for it.

The Ship is Pay'd; that is, when in Tacking about, a Ship's Sails being Back-stay'd, fall all flat against the Masts and Shrowds.

Pay more Cable! That is,

Let out more Cable!

智族的學

Pay Cheap! is a Command, in turning an Anchor out of the Boat, to turn it over-board fafter.

PEEK, is a Word used at Sea, in these various Sences: As,

The Anchor is a-Peek; that is, when a Ship, being about to weigh, comes so over her Anchor, that the Cable is Perpendicular between the Hawse and the Anchor.

Heaving a-Peek; is to bring the Ship so as the Anchor may

hang a-Peek.

To Ride a-Peek; that is, when a Ship lies with her Main and Fore-Yards hots'd up, and then having one End of the Yards brought down to the Shrowds, the other is raised up an end : This is done to contrary Sides, that is, the Star-board Yard-Arm of the Main-Yard comes down to the Star-board-Side, and to does the Lar-board-End of the Fore-Yard; fo that the Yards appear a-crois each other like St. Andrew's Cross. It is perform'd thus; Let go the Starboard Topfail-Shears from the Main-Yard, and Top-up the Larboard Lifts: And fo quite contrary, for the Fore-Yard.

The Use of Peeking up the Tards, is, lest lying in a River with the Yards a-cross, another Ship should be foul upon them, and

break the Yards.

To Ride a-broad Peek, is much after the same manner, only the Yards are rais'd up but half so high.

Peek the Misen! See Misen.
PEEK, also, is a Room in the

Hold of a Ship, from the Bitts

forwards to the Stem.

PENDANTS, or Streamers, are those long Colours which are hung at the Heads of the Masts, or at the Yard-Arm-ends: Their Use is chiefly for Ornament.

PENINSULA, is a Part of the Dry-Land, which is almost an Island, being join'd to the

Con-

Continent by a narrow Nick of Land; as Juitland in Germany, Morea in Greece, Taurica Cherfonesus in Little-Tartary, Peninsula India intra Gerta Gangem in Asia.

PENNANT, is a short Rope made fast at one end to the Head of the M st, or to the Yard-Arm, with a Block at the other end, and a Shiver to reeve some running Rope into: And all the Yard-Arms, except the M sen, have Pennants.

PILLOW, is that Piece of Timber whereon the Bowsprit rests, at its coming out of the Hull alost, close by the Stem.

PILOTS, are those, who, upon Coafts and Shores unknown to the Mafters, are Employ'd to Conduct Ships into Roads or Harbours, or over Bars and Sinds, and thro' Intricare Chanels, oc. And this they do, by their Knowlege of the true Depth of Water, and Flowings of the Tides, and how they Set from Point to Point, with the Difference of those a-Board from those in the Chanel, or a-Shore; and by the Blowings of the Winds, where the Sands Moveable; and by Land-Marks which they are acquainted withal, when they are to pass thorow any Chanel. And these Pilots are seldom Entertain'd whilft Ships are abroad at Sea, or for a whole Voyage; but having done their Parts, they return a-Shore, where they have their Residence, and get their Living in this manner.

PILOTING Part of Naviga-

tion. See Navigation.

PINK, is a Veffel Masted and Rigg'd like others; but built with a round Stern, the Bends and Ribs compassing so as the Sides bulge out very much; which renders these fort of Ships very difficult to be Boarded, and to carry greater Burdens than others. They are often used for Store-Ships, Hospital-Ships, or the like.

PINNACE, is a Smal Veffel with a Square Stern, going with Sails and Oars, and carrying Three Masts: They are used, as Scouts, for Intelligence, for Landing of

Forces, and the like.

PINNACE, also, is one of the Boats that belong to Great Ships; they serve for Officers to go affore, and the like.

which the Rudder hangs to the

Stern-Post.

PIRATS, are Ships affected to no Party, and respecting Friends and Enemies a ike; and therefore Takes either, as they come in their Way: They shew Commissions from contrary Parties, and the Colours of any Nation.

PITCH: The Mast is Pitch'd; that is, The Mast is put and let

down into the Step.

The Mast is Pitch'd too-far aft; that is, The Mast is placed too-

near the Stern.

The Ship will Pitch her Masts by the Board; that is said, when a Ship falls with her Head into the Sea, or beat violently against Fff 4 the the Sea, so as to endanger her Top-Masts.

PLAIN-Charts. See Charts.

PLAIN-Sailing, shews the various Motions of a Ship upon a Plain, where the Meridians are all made Parallel one to the other; the Parallels at Right-Angles to the Meridians, and the Degrees of each Parallel Equal to those of the Equinostial. In which, tho according to this way of Working, each Parallel is talfly supposed Equal to the Equinoctial, and the Terraqueous Globe as falfly to be Plain and Flat; yet if a Ship fail under, or near the Equinottial, or Mevidian, a fhort Voyage, or a long one cut into many fhort ones, may indifferently be perform'd by it.

The feveral Cases in Plain-Sailing, with their Solutions, are

as follow:

#### CASE I.

Given, Course and Distance

Requir'd, Departure, and Difference of Latitude?

Proportion.

- J. As the Radius,
  To the Distance run;
  So is the Sine of the Course,
  To the Departure.
- 2. As the Radius,
  To the Distance run;
  So is Co-Sine of the Course,
  To the Difference of Lat.

CASE 2.

Given, Course and Departure; Requir'd, Distance and Difference of Latitude.

Proportion.

- To the Departure;
  So is the Radius,
  To the Distance.
- 2. As the Sine of the Course,

  To the Departure;

  So is Co-Sine of the Course,

  To the Difference of Lat.

CASE 3.

Given, Course and Difference of I atitude?
Requir'd, Distance, and Departure?

Proportion.

- To the Difference of Lat.
  So is the Radius
  To the Diffance.
- 2. As Co-Sine of the Course, To the Difference of Lat. So is the Sine of the Course, To the Departure.

CASE 4.

Given, Distance, and Departure; Requir'd, Course, and Difference of Latitude?

Proportion.

To the Radius;
So is the Departure,
To the Sine of the Courfe.

2. A.s

Z. As the Radius,
To the Distance run;
So Co-Sine of the Course,
To Difference of Latitude.

#### CASE 5.

Given, Distance, and Difference of Latitude.

Requir'd, Course, and Depar-

#### Proportion.

- To the Radius;
  So is Difference of Latitude,
  To Co-Sine of the Course.
- 2. As the Radius,
  To the Distance run;
  So is the Sine of the Course,
  To the Departure,

#### CASE 6.

Given, Difference of Latitude, and Departure, Required, Course, and Distance?

- To the Radius;
  So is the Departure,
  To the Tangent of the
  Course.
- To the Departure;
  So is the Badius,
  To the Distance run.

PLAIN-SCALE. See Scale.
PLANKS, are those Timbers which go Fore and Ast on each Side of the Ship, whereon lie the Beams of the First Orlop.

Garboard-PLANK. See Gar-

PLATFORM, is a Place on the Lower-Deck of a Man of War, abaft the Mainmast, be-

tween it and the Cockpit.

of Rope-Yarn, and weav'd one over the other: They ferve to fave the Cable from galling in the Hawse, or to wind about the Flooks of the Anchors, to save the Pennant of the Fore-Sheat from galling against them.

PLOW, is an Inftrument made commonly of Box, or Pear-Tree; for the Taking of the Sun, or Star's Height, in order to find the Latitude of the Place: It admits of large Graduations; and is esteem'd of, by

some Artists.

PLUMMET. See Lead.

POINT of the Compass, is the 32<sup>d</sup> Part of the Ci. cumference of the Circle on the Card, or 11 Degrees, 15 Minutes: Therefore,

Half a Point, is 5 Degrees,

37 Minutes.

Quarter-Point, is 2 Degrees, 48 Minutes.

POINT of Land. See Pro-

montory.

POINT of Traverse; To Cast a Point of Traverse. See Cast.

POINTING the Cable; is untwisting it at the End, and lessening the Yarn, and twisting them again, and making all tast with a Piece of Marline: This is done, in order to keep the Cable from raveling out; as also,

also, that none of it may be cut off.

POLES of the World are two
Points 90 Degrees each distant
From the Eninodial: They are
the two Extremities of the Axis,
(or that Imagina y Line which is
supposed to pass thro' the Centre
of the Globe, and upon which
the whole is conceived to turn
round; ) one wher of is call'd
the North, or Arthic; and the
other, the South or Antarthic Pole.
They are call d Poles, from
Thoxew, (Verto; ) for upon
them, the whole Frame of the
Globe turns about.

Arthic, or Noth Pile, is so term'd, from Lexilo, signifying a Bear; because so very near a noted Star in the Constellation call'd the Little Bear.

Antarctic, or South Pole, is the South Point; and is so call'd, from avri, (contra,) and acris, (V.fa;) because of its being Diametrically opposite to the other.

poop of a ship, is the Highest, or Uppermost Part of her Hull aftern.

PORT! or, Port the Helm!

a Word of Command to him
at the Helm, to put it to Larbourd, and the Ship will go to
Starboard: See Helm.

The Ship Heels a-Port. Sce

Harbour. And,

PORTS, are those Holes in a Ship's Side, thorow which the Great Guns are put out.

2 12 4 10

PORT-Last; the same with the Gunwail of a Ship.

The Yard is down a-Port-Last, when it lies down on the Deck.

PORT-Ropes. See Ropes.
PORTOISE; To Ride a-Portoise. See Ride.

PORT; Sally-Port. See Sally.
POWCHES, are small Bulkh ads, made in the Hold of the
Ship, to Stow Goods, that they
may not shoot from one side to
the other.

of the Hold, wherein the Powder is Sow'd.

PREDY the Ship! That is, Make Ready to fet Sail! or to F ght!

Predy the Hold! That is, Lay, or Stow every thing there in its Due Order, and Proper Place.

PRESS, or Pressing. See, To Man a Fleet.

PREST-SAILS; as, To Carry a Prest-Sail; that is, The Ship Carries all the Sail the can croud: This is sometimes practis'd by Ships, upon Sight of an Enemy, whom they think they are not able to Encounter. But carrying too much Sail, if it Blow, may prove of ill Consequence, as the hazard of Overfetting the Ship; or endangering the Maft, and Yards: For if any of them come by the Board, the Enemy can lie upon the Bow, Counter, or Thwart one's Hawle, and Rake one Fore and Att at his Pleasure. So that Meeting an Enemy, in such a

Cale,

Case, 'tis most rational to go away with an easie Sail, and make a Running Fight, till Night savour an Escape.

PREVENTER - ROPE. See

Rope.

PROMONTORY, is a High Part of a Land, stretching it self into the Sea; its Extremity is usually call'd a Cape, or Head-Land.

In Europe, the Chief Promontories, or Head-Lands, are,

Cape St. Vincent, Cape Finister, Cape Roxant, Extending from the West of Spain.

Cape La-Hgue, Extending

from the North of France.

Cape North, Extending from the Northmost part of Norway.

The Lands-End, Extending from the South west of England.

The Lizard, and Start-Point, Extending from the South of England.

In ASIA, the Chief Promonmontories, or Head-Lands, are,

Cape Sumber, Extending from the E st of China.

Cape C morin, Extending from

Penin. India inter Gangem.

Cape Razalgate, Extending from the South-East part of Arabia.

In AFRICA, the Chief Head-Lands, are,

Cape Gardefuir, Extending

from the North-East-part of Ethiopia Exterior.

tending from the South of Ethiopia Exterior.

Cape de Verde, Extending from the West of Negroland.

Cape Spartel, Extending from the West of Barbary.

In AMERICA, the Chief Head-Lands, are,

Cape Horn, Extending from the South of Terra del Fungo.

Cape Frio, Cape St. Augustine, Extending from the East of Brazil.

from the West of New-pain.

Cape Florida, Extending from

the South of Florida.

PROPER PILOTTING. See Navigation.

PROVISO; To Moor a-Proviso.

See Moor.

PROW, is properly the Head

of the Ship.

PUDDINGS, are Ropes nail'd to the Arms of the Main and Fore Tards, near the Ends, at some Distances from one another. Their Use is, to save the Robbins from galling, or wearing asunder upon the Yards, when the Top-sails are haled Home.

Pudding of the Anchor, are those Ropes which are wound about the Rings of the Anchors, to save the Clinch of the Cable from being galled by the Iron.

PULLET,

PULLET, is a Room within the Hold, in which Pigs of Lead, or the like weighty things, are put, that the Ship may be sufficiently Ballasted, with the loss of little Room.

feveral forts; as some have such as those a-Shore, standing by,

or near the Main-Mast.

chain-PUMPS, are those used in great Ships; they go with more Ease, and yield more Water than the Ordinary Pumps; and are sooner mended.

Cane, or a Piece of Hollow Wood, or the like: 'T's used, for to Pump Beer, or Water,

out of the Ca ks.

commonly by the Dutch, who have them by their Ships-fides; in these there is a long Staff, with a Bur at the End like a Gunner's Spunge, to Pump up the Bilge-Water.

In Pumping, 'tis usual to make Spells, that is, to relieve the Men with fresh ones, and count how many Strokes they Pump each Watch, and by that means know if the Ship be Stanch, or

how her Leaks encrease

BILGE-PUMP. See Bilge.

whereby they pour Water into the Pump, to fetch it, and make it work, when 'cis to be used.

by which the Water runs from the Pump, along the Ship's-fides, that it may go out at the Scupper-

+ UMP's-BRAKE, is the Hand'e

of the Pump.

The Pump Sucks; that is, when the Water being out, draws up nothing but Froth, and Wind.

PURCHASE, fignifies only to

draw in: As,

The Capstan Purchases a-pace; that is, draws the Cable in a-pace.

that is, when they cannot draw, or hale in any thing, with the

Tackle.

PURSER of a Man of War, is an Officer, who has the Charge of the Victuals, receives it, takes care that it be in good Condition, and well laved, and stowed up: He keeps a List of the Ship's Company, and sets down exactly the Days of each Man's Admit-

tance into Pay, GG.

PUTTOCKS, or Puttock-Skrouds, are small Shrouds which go from the those of the Main-Mast, Fore-Mast, Milen-Malt, to the Round-Top of those Masts; for where the Shrouds come near the Top, they fall in fo much, that One could not get into the Top, without the help of the Purtocks. And if there be any Top-Gallant-mafts to the Topmasts, there are Puttocks to go from the Top-mast-Shrouds to those: These Purtocks at the Bottom are leiz'd to a Staff, or to some Rope which is feiz'd

to a Plate of Iron, or to a Deadman's-Eye, to which the Lanmurds of the Fore-mast-Shrouds do come.

UADRANT, Sea-Quidrant, or Davis's - Quadrani, is an Instrument contriv'd very commodioufly; and at this time, is the most approv'd One, for Observing the Sun's Meridian Altitude, at Sea.

These Quadrants are made of any Length between 18 Inches and 3 Feet; but now they are generally made of 26 Inches Radius, with one Arch 65 Degrees, the other 25 Degrees; and a Glass to the Shadow-Vane.

The Principal Parts are Three Vanes, the Horizon, Shadow, and Si ht-Vane: And Two Arches; on which Arches are the Degrees, both together making 90 Degrees; from whence 'tis call'd a Quadrant.

The Horizon-Vane, respects the Hirizon, in time of Observing.

The Shadow-Vane, is that which gives the Shadow, and is placed on the Sixty Arch.

The Sight-Vane, is that thro' which you are to look for both Shadow and Horizon: 'Tis placed

on the Thirty Arch.

The Sixty Arch, is that with the Shortest Radius; fo call'd, because formerly 'twas divided into 60 Degrees : but now it often contains 65, or 70 Degrees.

This Arch is of a Small Radius; and is fo detign'd, thet the Shade-Vane used on it, being at so small a Distance from the Hovizon Vane, on which its Shadow (in time of Observing) is to fall, might be more Vilible to

the Eye of the Observer.

The Thirty A ch, is of a Large Radius, that it might contain the Leffer Sub-divisions of a Degree; and being of a competent Breadth, thereon ulually are deicrib'd 10 Concentric Circle, interlected with 3 Diagonal Lines in each Degree, making each Interlection 2 Minutes. The Limb of this Arch is divided into Degrees by long Strokes; each again subdivided into Six Equal Paris: The efore each small Division is 10 Minutes.

# The Use of the QUADRANT.

This Instrument is seldom uled, otherwise than to Observe the Sun's Meridian Altitule;

which is perform'd thus:

1. Put the Horizon-Vane in its proper Place, close home to the Centre of the Quadrant: Put the Sight Vane on the Trarry Arch, close to the Back of it: And the Shade-Vane on the Sixty Arch, close to the Back of it; let the upper Edge of this Vane to a Number of Degrees less than the Complement of the Altitude by 15 or 20 Degrees.

2. The Vanes being thus fix'd upon the Quadrant, turning your Back towards the Sun, and holding the Quadrant as upright as you can, look thro' the Sight-Vane, and bring the upper Edge of the Shadow of the Shade Vane to lie upon the upper Edge of the Slit in the Horizon-Vane; at the same time, if the Horizon appear thro' the said Slit in the Horizon-Vane, the Vanes on the Quadrant stands at the Sun's present-Altitude.

3. But if the Sky appear, instead of the Horizon, slide the Sight-Vane a little higher: On the contrary, if the Sea appear instead of the Horizon, then slide the Sight Vane lower; continue so to do, till the Horizon appear

thro' the Horizon-Vane.

4. In order to obtain the Meridian Altitude, continue Obferving; as the Sun rifes, the Sea will appear thro' the Horizon-Vane, therefore slide the Sight-Vane down lower accordingly: Thus do, Observing as often as may be convenient, till the Sun is at the Highest.

fall, the Sky will appear thro' the Horizon Vane, instead of the Horizon, then defist Observing

for that Day.

6. Having thus done, add the Degrees the Upper-Edge of the Shade Vane stands at, to the Degrees and Minutes cut by the Inside of the Sight Vane; their Sum is the Complement of the Sun's Altitude, or the Distance of the Upper Edge of the Sun from the Zenith: To which add 16 Min. the Sun's Se vi-Dismeter; and you'll have the Distance of the

Sun's Centre from the Zenith, being the true Complement of the Sun's Meridian Altitude.

For the Upper-Edge of the Shadow of the Shade-Vane respects the Upper-Limb of the Sun; and the Lower-Edge of the said Shadow, answers to the Lower-Limb of the Sun: So that Observing by the first, you are to Add 16 Min. to what is on the Quadrant; but Observing by the latter, Substract 16 Min. from it; the Sum, or Difference, is the Zenith Distance; that is, the Distance of the Sun's Centre from the Zenith, or the Complement of

his Meridian Height.

But by having a Convex-Glass put in the Middle of the Breadth of the Shade-Vare, which, in time of Observing, casts an illuminated Spot on a round black Spot made in the Horizon-Vane, there will be no occasion of making that Allowance in Adding or Subtracting 16 Min. Only feeting that Part of the Shade-Vane which is right-against the Middle, or Centre of the Glass, to the D grees in the Staty Arch; and then cause the Enlighten'd Spot of the Glass to he on the Black Spot, or Circle on the Horizon-Vane; at the same time look for the Horizon thro' it, as before Directed, so will you have (Observing by this Glass in the Vane ) the true Complement of the Sun's Altitude, or the Distance of his Centre from the Zenith.

Besides, this Glass-Vane is Useful, when the Edge of the Shadow of the Shade Vane is not Conspicuous, as in Hazy-Weather; yet he Glass may collect so much of the Sun's Beams, as will cast an apparent Brightness upon the Horizon-Vane.

Sinical - QUADRANT. See Sinical.

QUARTER De k. See Deck.
QUARTER Masters, or Quarteers, are Ship Officers, whose Business is Rummidging, Stowing, and Trimming the ship, in the Hold; to Over-look the Steward, in his Delivery of Victuals to the Cook; and in Pumping, and drawing out Beer, or the like: They also are to keep their Watch duly, in Conding the Ship, or any other Duty.

QUARTER of a Ship, is that Part of the Ship's Hull which lies from the Steerage Room to

the Transom.

Fat-QUARTER. See Fat.

close-QUARTERS, are where the Seamen quarter themselves, in case of Boarding, for their own Defence, and for Clearing the Decks, &c.

QUARTER - POINT. See

Point.

QUARTER, signifies also, a good Treatment given to an Enemy Taken: As, The Enemy asked Quarter. We gave no Quarter; and the like.

QUARTERING; The Ship

goes Quartering; that is, She goes upon a Quarter-Wind; or, She goes neither by a Wind, nor before the Wind, but betwixt both.

QUARTER-Wind; is when the Wind comes in, abaft the Main-Mast-Shrouds, even with the

Quarter.

QUARTERING the Men; to Dispose of the Ship's Company so at the Time of an Engagement, as each may readily know where his Station is, and what he's to do: As, some to the Master, for the Management of the Sails; some to affish the Gunners to Traverse the Ordnance; some for Plying of the Small-Shot; some to fill Powder in the Powder-Room; others to carry it from thence to the Gunners, in Cartherages,

or Cable, laid up round, one Fack (or Turn) over another, fo that they may the more easily be Stow'd out of the way, and also run out free and smooth, without Kencks, that is, without Twistings or Doubings; then the Cable is said to be Quoil'd

up.

Weather-Quoil, or Coil. See Weather.

QUOINS; the same with Coins: Which see.

Canting and Standing Quins. See Coins.

R

R ABBETING, is the Letting-in of the Planks of the Ship into the Keel, which, in the Rake and Run of a Ship is hollow'd away; that the blanks may Join the better, and closer.

RABBET of the Keel, that is, the Hollowing there.

RAG-BOLTS. See Bolts.

RAINS; that Tract of Sea, to the Northwards of the Equator, between Four and Ten Degrees of Latitude, lying b tween the Meridians of Cape Verde, and of the Easternmost Island of that Name, is usually call'd, by our Navigators, the Rains: For it feems to be a Place condemn'd to Perpetual Calms, and, in a manner, constant Rains, with Thunder and Lightning, after an extraordinary manner; the little Winds that a e be only fome fudden uncertain Gults, of very small Continuance, and less, Extent; so that sometimes each Hour you shall have a diff rent Gale, which vanishes away into a Calm, before another succeeds: And here, a Fleet of Ships in fight of one another, shall have each a Wind from different Points of the Compass; with these weak Breezes, Ships are obliged to make the best of their Way to the Southward, thorow these Six Degrees.

And the A:lantic Ocean near the

Equator, is very much subject to, nay, is always attended with these Calms; into which Ships frequently fall, and there detain'd (as 'tis reported) whole Months, for want of Wind.

RAKE of a Ship, is so much of her Hull as hangs over both

ends of her Keel.

Fore-Rake, or Rake-forward, is that Part of it which is Before; and is usually more than a Third, but less than Half the Length of the Keel; a Long Rike-forward gives the Ship a good Way; But then, if the has not a Full Bow, 'twill make her apt to pitch much a-head into the Sea; besides, is a great Charge and Stress to a Ship, because the hangs over to ahead. But when a Ship has a Small Rake forward, the is to Bluff-headed, that the Sea meets her to often upon the Bow, that the cannot cut the Water fo readily, and confequently, will make but small Way.

Rake aft, or Rake aftward, is that Part which is at the setting on of the Stern-Post; and is generally about a Fourth or a

F.fih of her Fore-Rake.

The Ship Rakes so much Forward, or Astward; that is, her Rake is so much Forward, or Hindward.

RAKE of the Rudder. See

RAM'S-HEAD, in a Ship, is a great Block, belonging to the Fore and Main-Halliards; it has in it three Shivers, into which the Halliards are put; and at the End of it, in a Hole, are reev'd the Ties.

RANGES, in a Ship, are two Pieces of Timber going a-cross from Side to Side: One aloft on the Fore-Castle, a little abat the Fore-Mast; 'tis fasten'd into the Timbers of the Ship's-Sides; and has two knees about the Middle, on either side of the Fore-Mast, sasten'd to the Deck and the Timber, in which the Topsail-Sheats run in a Shiver: There are in it also, several Wooden Pins, to belay the Fore-Bow-Line, the Fore-Tack, and the Fore-Loof-Hook.

The other Range is in the Beak-head, before the Wouldings of the Bowsprit: It lies in the Form of the other, and has the Spritsail, and Spritsail-Topsail-Shears and Ropes belay'd about its Pins.

RANK-Keel. See Keel.

RAT; is a Place in the Sea, where there are Rapid Streams, and Dangerous Currents, or Counter-Currents.

RATE of Ships, is the Distinction of the Bigness and Capacity of Ships of War, which is into Six: The Difference is usually reckon'd by the Length and Breadth of the Gun-Deck; Number of Tuns they contain; Number of Men, and Guns, they carry.

RATE First, have their Gun-Decks from 159, to 174 Feet Long; and from 44, to 50 Feet Broad.

They Contain from 1313, to

They Carry from 705, to 800 Men:

And from 96, to 110 Guns.

RATE Second, have their Gun-Decks from 153, to 165 Feet Long; and from 41, to 46 Feet Broad.

They contain from 1086, to

They Carry from 524, to 640 Men:

And from 84, to 90 Guns.

RATE Third, have their Gun-Decks from 142, to 158 Feet Long; and from 37, to 42 Feet Broad.

They Contain from 871, to 1262 Tuns.

They Carry from 389, to

And from 64, to 80 Guns.

RATE Fourth, have their Gun-Decks from 118, to 146 Feet Long; and from 29, to 38 Feet Broad.

They Contain from 448, to

They Carry from 226, to

And from 48, to 60 Guns.

RATE Fifth, have their Gun-Decks from 100, to 120 Feet Long; and from 24, to 31 Feet Broad. 542 Tuns.

They Carry from 45, to

190 Men:

And from 26, to 44 Guns.

RATE Sixth, have their Gun-Decks from 87, to 95 Feet Long; and from 22, to 25 Feet Broad.

256 Juns. 01 . A MONI LAB

110 Men:

And from 16, to 24 Guns.

RATIONAL-Horizon. See Ho-

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RAT-LINES, or Ratlings, are those Lines which make the Ladder-Steps, to get up the Shrowds, and Puttocks.

tween any two Points of Land, that lie in a Right-Line one so by that means it may become

from the other.

Fore-REACH. See Fore. REAL-Horizon. See Horizon. REAR-ADMIRAL. See Officers, and Flag-Officers.

REARED, Wale-Reared. See

Wale.

RECTIFIER, is an Initrument confifting of two Parts, which are two Circles, either laid upon or let into the other, and fasten'd together in their Centres; they represent two Compasses, one Fix'd, the other Moveable, each Divided into the 32 Points of the Compass, and 360 Degrees; and Numbred both Ways, from the North a Rope out of a Block.

They Contain from 259, to and the South, ending at the East and the West, in 90 Degrees.

> The Fixed Compass, representsthe Horizon; in which, all the Points of the Compass are Fix'd,

and Immoveable.

The Moveable Compais, reprefents the Mariners Compais, as They Contain from 152, to liable to Variation. In the Centre of the Moveable Compais, is They Carry from 50, to fasten'd a Third, or sometimes an Index, long enough to reach the Outfide of the Fix'd Compajr. This Instrument serves to find the Variation of the Magnetic-Compass, and to Restifie the Course at Sea; having given, the Sun's Amplitude, or Azimuth.

REEF: When there is a great REACH, is the Distance be- Gale of Wind, they commonly roll up part of the Sail below; the narrower, and therefore not draw too much Wind. This Contracting, or Taking up of the Sail, is call'd Reef, or

Reening.

REEFT Top-Mast: When a Top- wast is sprung, that is, crack'd, or almost broken in the Cap, they cut off the lower Piece that was near broken off; and fetting the other Part, now much thorter, in the Step again, they call it a Reeft Top-Malt.

REEVE; is to draw a Rope thorow a Block, to run up and

down.

To Unreeve a Rope, is to pull

REFLUX of the Sea, is the Ebbing of the Water off from the Shore: As its coming on upon it, or Tide of Flood, is call'd, the Flux of the Sea. See Tide.

RENDS in a Ship; are the fame as Seams between the Planks. See Seams.

RESERVE. See Engage-

RESOLVE a Traverse. See

Traverse.

RIBS of a Ship, are the Timbers of the Futtock, when the Planks are off; so call'd, because they are Bending like the Ribs of a Carkass.

Also, those little long Wooden Pieces which belong to the Parrels of the Yards, and have Holes in them, like the Comb under the Beak-head, are call'd, the Ribs of the Parrels.

RIDE: A Ship is said to Ride, when her Anchors hold her fast, so that she drives not, by the force of the Wind, or Tide.

And a Ship is faid to

FETON

RIDE-well, when she is b ilt so, that she does not over-beat her self into a-Head-Sea, as that the Waves Over-Rake her, that is, Over-Wash her) from Stem to Stern.

RIDE-a-cross, when she Rides with her Main-Yards and Fore-Yards hoisted up to the Hounds; and both Yards and Arms Top'd alike.

RIDE-a-Peek. See Peek. RIDE-a-thwart, is to Ride with her Side to the Tide; and then she never Strains her Cable.

RIDE betwixt Wind and Tide, is to Ride so as the Wind has equal force over her one way, and the Tide the contrary way; which makes a Ship roll and tumble very much, yet not stain her Cables much.

RIDE-Wind-Road, or, To Ride a great Road; that is, to Ride so as the Wind has more Power over the Ship, than the Tide.

RIDE Hawsful, or, To Ride a-Stress; that is, when in a Stress of Weather, the Ship falls deep into the Sea with her Head, that the Water runs in at her Hawses.

RIDE Land-Lock'd. See Land-

Lock'd.

Yards of a Ship are strok down upon the Deck; or when they are down a Port-last.

RIDE by the Stoppers. See

Stoppers.

RIDERS, are great Tinbers, both in the Hold, and aloft, which are bolted on to the other Timbers, to strengthen them, when 'tis discover'd a Ship is too weak or slightly Built.

RIGGING of a Ship, is all the Cordage or Ropes whatfoever belonging to her Masts, or Yards, or any Part about her.

is, when the has all her Ropes of fit Sze and Proportion to her Burden.

is, when her Ropes are toomany, or too great for her; which wrongs her much in her Siling, and is apt to make her Heel: For a small Weight Alost, beyond due Proportion, is more prejudicial than a much greater Below; and the more Upright any Sip goes, the better the Sails.

RIGHT the Helm! That is, Keep the Helm even with the Middle of the Ship! See

Helm.

RIGHT-Horizon. See Horizon. RIGHT-Sphere. See Sphere.

Voyage is perform'd on some one of the Four Cardinal Points.

If a Ship fails on the North, or Somb Points, that is, under the Meridian, she Varies not in Longi ude at all; but only changes the Latitude, and that just so much as the Number of Degrees she has run.

If a Ship fails directly East, or West, the alters not her Latitude, but only Lingitude; and that as the Co-Sine of the Latitude is to

the Sine of 90 Degrees.

RING-Bolts. See Bolts.

RISING-Timbers. See Tim-

bers.

RISINGS in a Ship, are those thick Planks which go fore and ass, on both Sides, under the Ends of the Beams and Timbers of the Second Deck, unto the Third Deck, Half-Deck, and Quarter-Deck; and on them the Beams and Timbers of the Deck

do bear, at both Ends, by the

Ship's Side.

ROAD, is any Place near the Land, where Ships may Ride at Anchor.

ROADER, is a Ship that Rides

in a Road.

Noise that attends its Agitation: And this Roaring is frequently observ'd a Shore, both before and after a Storm.

ROBBINS, in a Ship, are those small Lines which make the Sail fast to the Yards, being reev'd into Eyelet-holes in the Sail, under the Head-Ropes, for that Purpose.

ROOF-Trees, or Ruff-Trees.

See Trees.

ROOM, in a Ship; are Places distinguish'd by Partitions, or Bulk-heads: As the

Gun-Room, is an Appartment abaft, under the Great-Cabbin, where the Gunner and his Crew prepare all their Necessaries, and is their proper Place of Rendevous.

Bread-Room, lies under the Gun-Room: Here the Bread is kept, and preserv'd Safe, and Dry.

Cook-Room, is in the Fore-Castle: Here the Victuals are

Drefs'd. meni

Ponder-Room, lies near the Bread-Room, and ferves as a Magazine for the Powder.

ROOMY, a Roomy Ship; that is, so Spacious, that Men may pass with Ease to and fro.

ROPES of a Ship, are in general all her Cordage; but at Sea they call by this Name only, the

BOAT-ROPE, that which the Ship Tows her Boat by, at her

Stern.

BOLT-ROPE, wherein the

Sails are Sew'd.

BREAST-ROPE, is that which ferves to keep the Yards close to the Masts, or to lash the Parrels to the Masts.

BUCKET-ROPE: That which is tyed to the Bucket for drawing

of Water in.

BUOY-ROPE: That which is tyed to the Buoy by one End, and the Anchor's Flook by the other End.

CAT-ROPE, is that used to

hale up the Cat.

CHEST ROPE, Guest-Rope, or Gist-Rope, is a Rope added to the Boat-Rope when she is tow'd to the Ship's Stern, to keep her from shearing, that is, from swinging to and again.

ENTRING ROPE, is tyed by the Ship's Side, for one to hold by that goes up the Entring-

Ladder.

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Hawfer made fast to the Main-Yard; another to the Fore-Yard close to the Ties, reev'd thro' the Block which is seiz'd close to the Top, and so comes down by the Mast, and is reev'd thro' another Block at the Bottom of the Mast close by the Deck. Its Use is to succour the Ties, by helping to hoise

up the Yards; so that the the Ties should break, yet they would hold up the Mast.

running between the Keelson and the Keel of a Ship, to clear the Limber-Ho'es, when they are choak'd up with Ballast, and the like.

PORT-ROPES, are those made use of to hale up the Ports of

the Ordnance.

PREVENTER-ROTE, is a Small Rope, seiz'd cross over the Ties, close to the Ram head; so that if one Part of the Tie should break, yet the remaining Part should not run thro' the Ram-head, and endanger the Yard.

RUDDER-RO'E, is reev'd into a Hole of the Rudder near the Head, and also thro' the Stern-Post; both the Ends thereof are splic'd together: Its Use is to save the Rudder, if by any Accident it should be struck off the Irons.

Running-ROPES, are those which Run on Blocks and Shi-

vers.

Standing-ROPES, the Shrouds and Stays are so called, because they are not removed, unless to be Eas'd or set Taught.

TOPE ROPES, those wherewith the Sea-men Set or Strike the Main or Fore Top-Masts.

See Top.

ROPE YARN. See Tarn. ROUFE Trees. See Trees.

ROUGH-sea. See Over-grown-

Ggg 3 ROUND-

Apartments Aba't on board a

Srip.

ROUND-in, or Round-aft the Sail, properly b longs to the Main-Sail and Fore-Sail; for when the Wind largeth, then they fay,

Let rife the Main-Tacks and

Fore-Tacks!

Hale aft the Fore-Sheat to the. Cat-bead!

Hate the Main-Sheat to the

Cubbridge-head!

And when these Shears are thus haled down, they are kept from flying with the Passarado-This Work is called Rope. Rou ding-in, or Rounding-aft the Sails.

ROUND-Splice. See Splice. ROUND-Seam. See Seam. ROUND-Top See Top.

ROWING: Low-built Veffels are made to go from one Place to another by means of Oars, managed usually by Men sitting in Rows in the Veffel; whence this Work is called Rowing: 'Tis practis'd in all Boats whatever; As also in Galleys and the like Veffels, and would be of great Use for Ships in Calms, if it could be conveniently pracris'd.

ROWING-Engine: Several Contrivances have bin given by Persons concern'd in these Affairs, for to facilitate the Labour of Rowing Boats at Sea or in Rivers, and of applying the fame to Ships, to be used in Calms, or when there is but

ROUND-House, is one of the little Wind; Among the rest De Chales mentions a pretty Invention in his Treatise of Navigation; The same was fince somewhat improved by another Ingenious Person; And is after this manner:

A Wheel is fitted to the Drum-head of the Cap-stan, whose Teeth turn a Trundlehead, thro' which an Iron-bar is run that reaches a-cross, and goes thro' the Ship's-Side; and on its Ends without Board, at a convenient Distance from the Side of the Ship, are fasten'd two Drum-heads, like that on the Capstan; in which are fitted fix or eight Paddles, fo as to be taken out at Pleasure. And at the outermost Ends of the Paddles is faften'd an Iron-Pin, with a Head on it: by which means, and by the Help of a Cord, taking an half Turn round about all these Pins, both the Paddles may be twifted, or strain'd and strengthen'd so, that they shall all work proportionably; and also the Paddles may, with a Luff-Tackle, be the more handily and easily lifted in and out, in order to be fitted into, or taken out of the Drum-heads of the Bar. Now if the Paddles be made proportionably large, according to the Number of Men that can be brought to the Capstan, who if they but work, the Vestel may make very good Way in smooth Water.

ROWLE, is a round Piece of Wood or Iron, wherein the

Whip

Whip goes, being made to turn abour, that it may carry over the Whip the Easier from Side to Side.

or pull in; but it properly belongs to the Cable or Haw-

fer.

ROWSE in the Cable! or, Rowse in the Hawser! that is, when a Cable or Hawser lies too slick in the Water, and it be required to have them made more Taught, lest on the Turning of the Tide, the Cable should happen to be foul of the Anchor.

RUDDER of a Ship, is a Piece of Timber hung at the Stern-Post upon Hooks and Hinges: In a Ship under Sail, the Rudder is, as it were, the Bridle of her, for by means of it, she is turn'd about at the Pleasure of him that

stands at the Heln.

A Narrow Rudder is best for a Ship's Sailing, provided she can feel it; that is, be guided and turn'd by such a Rudder; For a broad Rudder will hold much Water, when the Helm is put over to any side: But yet it a Ship have a Fat Quarter, so that the Water cannot come quick and strong to her Rudder, she will require a Broad Rudder.

Rake of the Rudder; that is; the Aft-most Part of the Rud-

der.

of that Iron whereof the Pintle is Part, which is fasten'd and

nail'd down about the Rake of the Rudder.

RUDDER-Rope. See Rope.

RUMB, Rhumb, or Course of a Ship, is the Angle which she makes in her Sailing with the Meridian of the Place where she is. See Course.

the Angle made by the Line of the Ship's Way, with any Pa-

rallel to the Equator.

RUMB fignifies also, one Point of the Mariners Compass, or the two and thirtieth Part of the Card or Horizon, that is, It deg. and 15 minutes, II \( \frac{1}{4} \) degrees.

RUMB. Line, is the Line that is described by the Ship's Motion, on the Surface of the Sea, Steer'd by the Compass, making the same or equal Angles with every Meridian. These Rumb-Lines are Helispherical or Spiral Lines, proceeding from the Point where we stand, winding about the Globe of the Earth, and after infinite Revolutions come to the Pole, where they end. See Loxodromic-Line.

In Plain and Mercator's Sailing, these Rumb-Lines are represented by strait Lines. Their Use is to shew the Bearing of any two Places one from another; that is, upon what Point of the Compass any Place lies

from another.

RUMMIDGE, fignifies to remove Things from one Place to another. This is one of those Sea-Terms which are brought into common Use.

Ggg 4

RUM-

RUMMIDGE the Hold. See Ho'd.

RUN of a Ship, is that Part of her Hull under Water, which comes narrower by Degrees from the Floor-Timbers to the Stern-Post. This is also called the Ship's Way aft-ward; And according to the Ship's Run, the Steers we l or ill, by reafon of the E finess or Difficulty of the Water's Paffage to the Rudder. If too fhort and too full below, the Water comes but flowly to the Rudder, because the Force of it is broken by her Breadth: This is sometimes Remedied by putting on a false Stern-Post, tho' 'tis better to lengthen her.

Good-Run, a Ship is said to have a Good-Run, when she comes off handsomly by Degrees, and her Tuck not lying

too Low.

Bad-Run, when the Tuck of a Ship lies too low, it hinders the Passage of the Water to the Rudder, and therefore she cannot Steer well, nor keep a good Wind, nor make any good Way thro' the Sea, but will be still falling to Leeward.

RUN, Distance Run. See

Distance.

RUNG-Heads, a peculiar Name given to those Heads of the Ground-Timbers of a Ship, which are made a little bending, or where they begin to compass,

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don where of the Platte. Terms which are brought into-

PRISING STORY IN STREET

and do direct the Sweep or Mould of the Futtocks and Navel-Timbers; for here the Lines, which make the Compass and Bearing of a Ship, begins.

BUNGS, are the Floor-Timbers, or Ground-Timbers of a Ship, those that thwart the Keel, and are Bolt d to it, and constitute her Flo r, their Ends are the

Rung-Heads.

RUNNER, is a Rope belongto the Garner, and to the two Bolt-Tackles, viz. that before, which comes to the Aftermost Shrouds of the Fore-Masts, and that Abaft which comes to the Fore-most Shrouds of the Main-Mast. This Runner is reev'd in a fingle Block which is seiz'd to the End of a Pennant, and has at one End a Hook to hitch into any Thing, and at the other End a double Block, into which is reev'd the Fall of the Tackle or the Garnet, by which means it Purchases more than the Tackle or Garnet can do alone.

Overhale the Runner! That is, bring down that End which has the Hook to it, that it may be Hitch'd into the Sling, &c.

RUNNING-Ropes. See Ropes. RUNNING-Fights. See Fights. RUT of the Sea, is where it dashes against any Thing.

CAIL, is made of feveral Pieces of strong Cloth, and fasten'd to the Yards and Stays, for receiving the Wind that ought to Impel the Ship along. There are several sorts of Sails belonging to Great Ships, most of which take their Names from their several Tards.

Main-SAIL, Main-Top-Sail, and Main-Tot-Gallant Sail; are those that belong to the Main-Tard, Main-Top-Sail-Tard, and Main-

Tor-Gallant-Tard.

Fore-SAIL Fore-Top-Sail, and Fore-Top-Gillant-Sail; belonging to the Fore-Tard, Fore-Top-Sail-Yard, and Fore-Top-Gallunt-Tard.

Misen Sail, and Misen-Top Sail; those that belong to the Mifen-Yard, and Misen-Top-sail-Yard.

Sp-it-SAIL, and Sprit-Top-Sail; belonging to the Spritfail-Tard, and Spritfail-Torfail-Tard.

All these Sails are usually Cut in Proportion as the Mass and Tards are in Length.

Drift SAIL, is a Sail wed Under Water, veered out righta Head by Sheats, as other Sails: It serves to keep the Ship's Head right upon the Sea in a Storm, and to hinder her Driving too fait in a Current.

Head-SAILS, are those which belong to the Fore-Mast and

Bowsprit: They keep the Ship from the Wind.

After-SAILS, are those that belong to the Main-Mast and Mifen: They keep the Ship to

Windward.

Therefore 'tis common, that Ships Sailing on a Quarter-Wind, require a Head-Sail, and an After-Sail; one to Countermand the otler.

Netting-SAIL, is only a Sail

laid over the Nettings.

studding-SAILS, are Bolts of Canvass, or any Cloth that will hold Wind, extended in a Fair-Gale along the fide of the Main-Sail, and Boom'd out with a Boom.

They are sometimes used to the Clew of the Main-Sail, Fore-Sail, and Spritfail, when the Ship goes before the Wind, or Quartering.

Prest-SAILS. See Prest.

Short-SAILS, or Fighting-Sails, are the Fore-Sail, Main Sail, and Fore-Top Sail: These alone are uled in a Fight, lest the rest should be fired, or spoil'd; befides, they would be troublefome to handle, hinder the Sight, and the Ue of Arms.

The Sails which are made of English Canvas, comes far short of that which we have from Holland, as to Strength, and Goodness: And therefore, fince the Use of this Manufacture was introduced into the Navy, for the Benefit of our Country; it were much to be wish'd, that it might foon be brought to

Perfection.

Perfection, as of late, indeed, tis much improved; for otherwife, the Use thereof, may prove greatly Prejudicial, not only with respect to the Danger our Great Ships may be expos'd to thereby, but by obliging the Smaller to come into Port, for New Supplies, when the Safety of the Trade in our Channel, and up and down the Soundings; does, in Time of War, absolutely require their keeping out at Sea. Befides, the Opportunity of Service may be loft, not only with whole Squadrons, but fingle Ships, upon Meeting an Enemy: For if the Sails prove bad, it may, on the one hand, impede their getti g up with them; and, on the other, subject them to a Surprize, when Outnumber'd: And the Confequence may be Fatal to a Fleet. or any Number of Ships, on a Lee-Shore.

SAIL; besides its proper Sig-

Ship: As,

To Spy (or See) a Sail; that is, to D scry a Ship; therefore, he that Discovers it, usually cals, A Sail! A Sail! So when we speak of a Fleet, or Number of Ships together, we say, It consist of Forty or Fifty Sail, more or less; and not. Forty or Fifty Ships.

SAILING: The Art of Sailing, thews how to Conduct a Ship at Sea, or to Guide and Direct her from one Place to another. See

ON BOOK MANDER

Navigation.

GREAT-CIRCLE-SAILING. See Great-Circle.

MERCATOR's-SAILING. See Wright's.

MIDDLE · LATITUDE · SAIL-ING. See Middle-Latitude.

PARALLEL-SAILING. See

PLAIN-SAILING. See Plain.

At Setting SAIL the wind being Fair, and Steering right Before it, the Working Phrases, or Terms then used, are generally such as these:

Let fall your Fore-sail!

Heave out Main-top-sail!

Hoise up Fore-top-sail!

Hoise up Main-top-soil!

Lose Spritsail!

Heave out Misen-top-sail!

Square your Spritsail!

Gale; and it be required to have the Ship in all her Canvase, then,

Heave out Spritsail!

Top-sail!

Fore-top-gallant-sail!

Main-top-gallant-sail!

Hoise up your Small Sails!

Hale aft your Fore-sheats!

Note, That the Main-sail is now kept Furl'd: For if the Fore-sail and Fore-Top-sail be good Sails, the Ship will now make better Way, than if the Main-sail was down; which would Becalm the Fore-sail, and Fore-Top-sail; and the Ship steers best

best with her Head-sails. Now, at Setting-Sail, 'tis suppos'd that the Sheats are all Haled home, and the Yards Hois'd up; and then you have a Ship Compleat, Under-Sail right-afore.

If it prove a Fresh Gale, or that the Wind blow Fresh, then,

Hale down your Fore-top-gallant-sail! Hale down Main-top-gallantsail! In Spritsail-top-sail!

Let go Spritsail-top-sail-skeats!

Hale home his Clew-Lines!

In Fore-top-gallant-sail!

In Main top gallant-sail!

In Misen-top-sail!

Let go Top gallant-sheats!

Cast off Top-gallant Bow-Lines!

Hale home Top-gallant ClewLines!

Vier out some of the Weathersheat of the Fore-sail! Let go your Weather-Braces! Top your Spritsail! Lose Main-sail!

If the Wind Veers forward,

Get too your Fore-Tack!

Cast off you Weather-sheat!

Let go your Weather-Brace!

Veer out some of your Lee sheat!

Let fall Main-sail!

Get too Main-Tack!

Cast off Main-Brace, and MainTop sail!

Hale aft Main-sheat!

If the Wind is Sharp, then,

In Spritsail!

Square Spritsail-Tard!

Let go Spritsail-Sheats!

Hale up Spritsail Clew-Lines!

Get Main-Bow-line in Block!

Hale forward Main-Bow-line!

Hale Main-top-sail Bow-line!

Hale tau't Fore-Bow-line, and

Fore-top sail Bow-line!

Hale aft Main-sheat!

Hale a-board Misen!

Set in your Lee-Braces!

And keep her as Near as she

will Lie!

Then you have all your Sails

Then you have all your Sails Trimm'd Sharp, or by a Wind!

If it prove a Stiff Gale,

Settle down your Fore-top-fail !

If much Wind, then,

Hale down Fore-top-sail!

Hale down Main top-sail!

If it Blows fill Harder, then,

Take in Top. sails!

Let go your Lee-Braces!

Cast off your Bow-lines!

Brace your Weather-Braces!

Let go Top sail sheats.

Hale h me Top sail Clew-lines.

The Sails being Furl'd, then Square your Top fail-Tards!

Here the Ship is brought into her Low-Courses, or Low Sails.

We ther, then,

See that your M in-Halliards be Clear!

Make all your Geer Clear, to Lower the Main-Turd.

Hile down Milen!

Cast off Fop fail sheats!

---- Clew-Garnets! Bunt-Lines!

- Leetch Lines!

- Lifts, and all your other Geen.

Hale too the Capstan, to (Lower) or bring down the Kard! Furl the Sait Sure! Make fast the Yard for Traver fing !

If it be a Grown-Sea, and very Foul-Weather, then it's better Spooming, or putting her right Before the Wind.

See the Guns be fast Lash'd! Put the Helm a-Weather! Right your Helm! Let rife Fore-Tack! Settle the Fore Tard!

If the Fore Sail give-way, then,

Lower Amain! Hale the Sail into the Ship, and Loose it from the Tard! Get too the Fore-Bonnet! Make all Clear, and Hoise the Fore-Fard!

Thus you have the Ship brought from her Canvas, to a Fore-Bonner, Spooming before

If it prove to be Stormy- the Wind. And this is the usual Manner of Handling a Ship By, and Large, in Fair, and in Foul-Weather.

> SAILORS, are those Men that perform the Work of a Ship, as Hoifing the Sails, getting the Tacks a-board, Steering the Ship, Furling the Sails, Singing the Yards, and the like, as required of them on all Occasions.

And as these Men are absolutely Necessary, for the Good of our Nation; fo feveral Things are (or should be) very carefully Perform'd with respect to them; As the Looking well after them, when Wounded, or Sick, at Sea; and when they are put on-Shore, under those Circumstances: To this End, there are Physicians in the Fleet, with fuitable Silaries. When they are put Sick a-Shore, they are Provided for, by Officers at the leveral Ports, by Commissioners of the Sick and Wounded, whose Business is to take Care, not only for their Lodgment, and Nurses, but also for all other Tnings Neceffary for the Cure of their Wounds, and Diseases.

Befides. Care is taken for the Convenient and Comfortable Reception of Poor, Maim'd, and Difabled Seamen, and the Widows and Children of fuch who have loft their Lives in the Public Service, into the Holpital at Greenwich. Nor is the Government less wanting in making them

Eaire,

Easie, as to their Pay and all other Particulars: Therefore the y do expect from the Sailors a strict Compliance with their Duty; and so to behave themselves, that not only their Country-mer, but the rest of the World may be convinced, an English Sea-man does still retain his wonted Zeal and Bravery.

SALLY-Port, is a great Hole in the Side of a Fire Ship, made on purpose for the Men to escape when they have Grappled an Enemy, and fired their

Train.

SALUTE is a Deference, and Respect, which at Sea, is render'd not only between Ships of different Nations, but a so between those of the same Nation, according to the Degree and Quality of the Commanders.

And this Respect is shew'd by passing under the Lee, Saluting them with so many Guns, Trumpers, or Hale them thrice with a Joint Shout of the whole Ship's Company, and the like, according to the different Occa-

fion requiring it.

And if any Ship or Fleet, either of our own or Strangers, whether Merchant-Men or Men of War, shall come up any thing near, or within reach of a Cannon shot, of any of Her Majesty's Ships, either at Anchor or under Sail, it becomes them to pass under her Lee, after the Custom of the Sea, and

with some oad Number of Guns, the which are to be answerd

with fit Correspondency.

And the Number of Odd Guns is, at Sea, so punctually and strictly observed, that whensoever they are given Even, 'tis received for an infallible Sign, that either the Captain, or some noted Officer, is dead in the

Voyage.

These Salues are of Use, not only in regard of an Acknow-ledgment of Superiority to Her Majesty's Ships, especially in our Channels, but that by an Expectance, and looking out after this, all treacherous Attempts, that may be Plotted, by stealing upon them to the Windwards, of laying of them a-board, either with Fire-Ship, Mine-Ship, or the like, may seasonably be prevented and avoided.

And as Her Majesty's Admiral Ships are always to be Saluted with Gens by all Ships whatsoever; so also, when any Ship or Ships comes to an Anchor under the Command of any Fort or Castle, they are to give some Guns; the which are to be respectively answered by the

Castle or Fort.

And when Ships that have been long in Confortship at Sea, are to part several Ways upon their Occasions, they usually Salute one the other with some Guns.

Also, 'tis a general Custom, upon the Death of any Com-

mission'd Officer, at Sea, at his throwing over Board, to Ring his Knell with some even Number of Gues.

SCALE, figuifies any Meafure, or Numbers which are commonly used; or the Degrees of any Arc of a Circle, or of such Right Lines as are divided from thence; as the Sines, Tangents, Chords, Seconts, &c. drawn or plotted down upon a Ruler, for ready Use and Practice in Geometrical Operations.

Line equally divided, whose Parts may represe t any Measure or Numbers whatsoever, as Leagues, Miles, &c. It serves to lay down any Measure taken; or a Line being laid down, to find how much of the Measure

that Line contains.

DIAGONAL-Scale, is only a Scale of Equal Parts, divided with the utmost Accuracy, by

means of a Diagonal Line.

plain-Scale, is a Scale having on one Side thereof, the Scale of Chords, Natural Sines, Tangents, Semi-Tangents, Secants, Rumbs, Hours, Leagues, Longitudes, &c. and on the other Side, the Dia onal Scale. And by means of this, the several Cases in Trignometry, and consequently in Sailing, are Projected and laid down.

GUNTER's-Scale, is a large Scale, having on one Side the Common Plain-Scale; that is to fay, the Diagonal Scale of Equal Parts, and those of Natural Sines, Tangents, &c. On the other Side are drawn the Lines of Artificial Sines, and Tangents, fitted so to a Line of Numbers, or Gunter's Line, (so called from the Inventor Mr. Gunter) that all Questions in Plain-Sailing, &c. as also all Proportions, or where there are Three Terms given and a Fourth required, are easily wrought with Compasses; and that by this

RULE.

The Extent of the Compass from the First Term to the Second, will reach from the Third Term to the Fourth Term. Or

The Extent from the First Term to the Third, will reach from the Second to the Fourth Term.

Note, That the Meridian Line, and Line of Equal Parts adjoyning, on the Gunter; the First is or may be the Meridian, and Degrees of Latitude on Mercator's Chart; the latter, the Equinotial and Degrees of Longitude.

SCARFED, fignifies Pieced, Fasten'd, or Joyn'd in; and is said of one Piece of Wood let into another, by cutting away as much from the one as the other: And when any of the Floor or Ground-Timbers are not long enough of themselves, they are Scarf'd into one another, to make two or three as one.

The Stem of a Ship is Scarfed into her Keel; that is, the two

Pieces

Pieces are shaped away slanting, fo as to joyn with one another close and even; and this the Carpenters call Wood and Word.

SCO ER or Scuper-Holes, are little Holes close to the Decks, thorow the Ship's Sides: They ferve to carry the Water off, that comes from the Pump, or

any other Way.

SCOPER-Leather, or Scuper-Leathers, such as are nail'd over the Scopers upon the Lower Deck, serving to keep out the Sea from coming in, and yet to give way for it to run out.

SCOPER-Nails, or Scuper-Nails, are little short Nails, with broad Heads, made purposely to Nail the Scuper-Leather, and the Coats of Masts,

and Pumps.

SCUTTLES, are little square Holes, cut in the Deck big enough to let one Man thorow; they serve to let People down below on Occasion: Or from Deck to De k. They are generally before the Main-Maft, before the Knight in the Fore-Caftle: In the Gun-Room to go down to the Stern-Sheats: In the Round-House, to go down into the Captain's Cabbin, when forc'd by the Enemy, in a Fight A-loft. Some small Scuttles have Grattings over them, to give Light to them betwixt Decks, and for Out-lets to the Smoak of the Guns: But all Scuttles have Covers to them, that Men may not tumble in, when 'tis Dark.

SCUTTLE, also are little Windows, and Long Holes which are cut out in Cabbins, to let in Light.

SCUTTLE-Hatch, is the little Hatch that covers the Sout-

tle. See Harch.

SEA, all the vast Collection or Body of Salt Water in General, is called Sea: But this Name is promiscuously apply'd to any of the Parts, whether Ocean, Gulfs, Straits, Bays, Roads, &c.

The Seas, with respect to Europe, are

The Euxine Sea, enclos'd with Part of Europe on the No th and West, and Part of Asia on the South and East.

The Mediterranean-Sea, enclofed with Europe on the North, and Barbary on the South.

The Irish-Sea, enclosed with Ireland on the West, and Britain,

on the East.

The German-Sen, enclosed with Britain on the West, and Scan-dinavia on the East.

The Baltic-Sea, enclosed with Part of Germany on the South, Part of Poland on the East, and Swedeland on the West.

The Seas in the other Parts of the World, are different Parts of the Ocean, variously named, according as they lie adjacent to different Countries, except the Cappian-Sea in Asia.

SEA-BOARD. See Board. SEA-CHART. See Chart. SEA COMPASS. See Com-

puls.

SEA-DRAGS. See Drags.
SEA-GATE. See Gate.
SEA-MEN. See Mariners.
SEA-QUADRANT. See Qua-

drant.

SEA-YOKE. See Toke.

HEAD SEA See Head.

Overgrown-SEA. 7 See OverRough-SEA. 5 grown.

Places where the Planks meet, and are joined together.

To Parcel a Seam. See Par-

cel.

To Pay a Seam. See Pay.

SEAMS: This Word is also used according to common Acceptation, when speaking of Sails; and of these seams, there are two sorts, viz.

Monk-SEAM, is a Flat Seam.

See Monk.

Round-SEAM, is so called, because Round like the common Seam.

SEASE, Seaze, or Seize, is to bind fast any Rope together, with small Rope Yarn, or the like: And the fastening of a Block at the End of a Pennant, Tackle, or Garnet, Grc. is called Seizing, or Seazing.

SEASEN, or Seafing, is the Name of a Rope by which the Boat Rides by the Ship's-side,

when in Harbour, Gc.

SEEL, fignifies much the fame as Heel; for as 'tis called Heeling, when a Ship lies

down constantly or steadily on one Side; so 'tis called Seeling, when she tumbles on one Side violently and suddenly, by reason of the Sea's forsaking her, that is, the Waves leaving of her for a time in a Rolling Sea.

Lee SEEL; that is, when the Ship tumbles to Lee ward: In this, even in a Storm, there is not much Danger, for the Sea will prefeatly right her up

again.

But in Case a Ship Seels, or Rolls to Wind-ward, then there is Fear of her coming over too shore, or suddenly, and so be soundred, by having the Seabreak right into her, or e'se have some of her upper Works carried away.

SEND, when a Ship falls deep into the Trough, or Hollow of the Sea, then 'tis faid the Sends much that Way, whe-

ther a. Head, or a-Stern.

SENSIBLE-Horizon. - See Ho-

SEPARATION; the same with Departure: Which see.

SERVE: To Serve a Rope, is to wind something about it, to

keep it from fretting out.

To Serve Ropes with Plats, or Sinnets, is to lay Sinnet, Spun or Rope-Tarn, or a Piece of Canvase, upon Ropes; then roll it fast about the Rope, to keep it from galling, or fretting in any Place.

SET: To Observe on what Point of the Compass, the Sun,

Land,

Land, Go. bears, is call'd, Setting the Sun, Land, &c.

SET-BOLTS. See Bolts.

SETTEE, is a Vessel, very common in the Mediterranean, with One Deck, and a very Long and Sharp Prow; they carry, some Two Masts, some Three, without Top-Masts; their Yards and Sails are all like the Misen: The least of them are of 60 Tuns Burthen: They serve to Transport Cannon, and Provision for Ships of War, and the like Service.

SETTLE a Deck; is to take it down lower than it was at

first.

SEW: The Ship is Sewed; that is, when a Ship, at Low-Water, comes to lie Dry on the Ground. If she be not left quite Dry, then they say, She Sews to such a Part.

And where the Ship cannot all lie Dry, then 'tis said, She

cannot Sew there.

SHACKLES, are the Oblong Iron-Rings, bigger at one End, End than at the other, with which the Ports are shut fast, by thrusting the Wooden-Bar of the Port thorow them.

SHACKLES, also, are Rings like the former, fasten'd at the Corners of the Hatches, to lift

them up with.

SHALLOP, is a small Light Vessel, with only Main-Mast and Fore-Mast, and Sails to be haled up and down on Occasion: They are generally good Sailers; and consequently, wery fit to serve as Tenders on Men of War, as they are often used.

SHANK of an Anchor. See

Anchor.

SHANK-Panter, is a short Chain, fasten'd under the Fore-Mast-Shrouds, by a Bolt, to the Ship's-Side; having at the other End a Rope fasten'd to it: It serves to make fast the Anchor at the Boy; and the whole Weight of the aft-part of the Anchor rests thereon, when it lies by the Ship's Side: And the Rope by which 'tis haled up, is made fast about a Timber-head.

Sheep - SHANK - Knot. See

Knot.

SHARP; As, Sharp the Main-Bow-Line! That is, Hale it tau't.

SHEAR; that is, to Swing

too and again.

The Ship Skears; that is, Goes in and out, and not right forward; either by not Steering steadily, or by means of the swift running of the Tide, Go. Then they say, She Shears; or goes Shearing.

SHEAR-OFF; that is, to get

Away.

SHEATH: To Sheath a Ship, is to Case, as it were, that Part of her Hull which is under Water, with something to keep the Worms from Eating into her Planks; 'tis usually done, by laying Tar and Hair mix'd tegether, all over the Old Planks, and then nailing on thin New Boards: But this hinders a

Hhh Ship's

Ship's Sailing; therefore, of late, fome have bin Sheath'd with Mill'd-Lead.

shears, are Ropes bent to the Clew of the Sails; serving in the Lower Sails, to Hale aft, or Round off the Clew of the Sails: But in Top-sails, they serve to Hale Home, that is, to Hale the Clew of the Sail close to the Yard-Arm.

standing Part of the SHEAT, is that Part of it which is made fast to the Ring of the Ship's Quarter.

is, Hale upon the Standing-part of the Sheat.

To Hale aft the Main-Sheats, is in order to make the Ship keep by a Wind.

To Hale aft the Fore-Sheats, is, that the Ship may fall off from the Wind.

Ease the Sheat! That is, Veer it, or let it go out gently; See Eise.

Tally the Sheats! That is, Hale aft the Sheats of the Main, and Fore-Sail.

Let Fly the Sheat! that is, Let it go all at once, and run out as fast as it can; Then the Sail will hang loose, and hold no Wind. See Fly.

False-SHEAT, is a Rope bent to the Clews of the Main, and Fore-Sail, above the Sheat-Block, to Succour and Ease the Sheat in a violent Gust of Wind.

SHEATS, also, are those Planks under-Warer, which come along the Ship's Run,

and are closed into the Stern-

Stern-SHEATS, is that Port within Board in the Run of the Ship.

Flown-SHEAT3. See Flown.
SHEAT-Anchor. See Anchor.
SHEEP-Shank-Knot, or Sheer-Shank-Knot. See Knot.

SHEER-Hooks. See Hooks. SHEER, or Sheering; the same with Shear: Which see.

SHEERS, are two Mast-Yards. or Poles fet up an end, and at: a pretty distance off at the Bottom, and seiz'd a cross one another near the Top; this they call a Pair of Sheers: They are placed Below, upon the Chain-Wails of the Shrouds, and lash'd fast to the Ship's-side, to keep them fleady Alofe: They serve either to take in, or let out a Mast; or else for to hoise in or out into Boars, that have no Maits, luch Goods as are to be taken in; and for that End, there is fasten'd, at the place where they cross one another, a strong Double-Block, with a Strap.

SHIFTERS, are those Men on board a Man of War, who are Employ'd by the Gooks, to Shift or Change the Water in which the Fish or Flesh is put and laid for some time, in order to sit it for the Kettle.

SHIVERS, are those little round Wheels in which the Rope of a Pulley or Block runs: They turn with the Rope, and have Pieces of Brass in their

Centres

Centres (call'd Cocks) with Holes in them, into which the Pin of the Block goes, and on which they turn. These Shivers are usually of Wood; but some are of Brass, as those in the Heels of the Top-Masts.

SHOALE, fignifies the same

as Shallow.

Good-SHOALING; that is, when as a Ship fails towards the Shore, she finds by her Sounding, it grows shallow by degrees, and not too suddenly; for then a Ship may go in safely.

SHOOT: The Ballast Shoots; that is, runs over from one Side

to another.

SHORT-SAILS. See Sails.

SHOT of a Cable, is the splicing of two Cables together, that a Ship may Ride safe in deep Waters, and great Roads: For a Ship will Ride easier by one Shot of a Cable, than by three Short Cables out a-Head.

SHOT for Ordnance, are of

feveral forts: As,

Small Bullets, Nails, Old-Iron, and the like, to be put into a Case,

to Shoot out of Ordnance.

Chain-SHOT, are made of two Bullets, with a Chain betwixt them, so contriv'd, that they will spread their full Length in Flying.

Shot, with a long Spike of Iron cast into it, as if it went thro'

the Middle of it.

Langrel-SHOT. See Langrel.

Round-SHOT, are Round Bullets fitted in Proportion to the Bore of the Piece.

of Iron, 16 or 18 Inches long, tharp-pointed at both Ends; and about a Hand's-breadth from each End, has a Round broad Bowl of Lead cast upon it, according to the Bore of the Piece.

SHOT between Wind and Water; that is, close by the Surface of the Water.

SHROUDS, are great Ropes in a Ship, that go up on both Sides of all the Masts, except the Bowsprit: They are made fast below by Chains to the Ship's. Sides; and aloft, over the Head of the Mast, their Pennants, Fore-Tackle, and Swifters being first put under them : And they are served there, to prevent their galling and fretting the Maft. The Top-Mast Shrouds fasten'd to the Puttocks by Plates of Iron, and by Dead-Men's-Eyes and Lanniers also, as the others are.

Ease the Shrouds! That is,

Get them Slacken'd.

Set Tau't the Shrouds! That is, Set them Stiffer.

Puttock-SHROUDS. See Put-

tocks.

SIDES of a Ship, are diffinguish'd into the Starboard, or Larboard-side; that is to say, into the Right-Hand, and Lest-Hand-Side. See Starboard and Larboard.

To give a Broad-fide; that is, to Fire all the Guns on one Side of the Ship.

SIDE-Wind. See Wind.

SIGNALS are the feveral Signs, made either by Firing off certain number of Guns, putting out such Colours or fich a Light; whereby it may be known, when the Admiral Tacks about, when He intends to lie a-Try, when a-Hull, when to Fight, when to Chase, when to Leave off; and when any of the Fleet are toofar a Head, to Retire, by sparing fome Sail; or when they are too far a-Stern, to cause them to make all the Sail they can, to get up: These Signals are particulariz'd and communicated in the Instructions sent to the Commander of every thip of the Fleet, before their putting out to Sea.

As, The Day that the Admiral defigns to Set out to Sea, He usually causes his Top Sails to lie loofe upon the Cap, very early in the Morning: And if it be Hazy, Dark-Weather, and that the Fleet be large, then about two or three Hours before he begins to Weigh his Anchors, He Fires a Gun.

If the Admiral finds Occasion to Tack about in the Day-time, He Fires a Gun, to cause the rest of the Fleet to Look out, and do as He does. If it be in the Night-time, He, besides his usual Lights, puts one Light

remarkable Place as determin'd for such a Signal, and Fires a Gun.

If he defigns to lie a-Hull, then

he puts Two Lights there.

If to lie a-Try, they put Three Lights out in the same

If Occasion requires a General Convention of the Captains on-Board the Admiral, He usually hangs out a Yellow Flag in the uppermost part of his Main, or Misen-Shrouds.

If a Council of War is Call'd, He hangs a Blue Flag in the

fame Place.

If a Fleet Meets an Enemy's Fleet, and that, after due Confultation on-Board the Admiral, it be thought fit to Engige them; He takes in his Ordinary Enlign, and heaves out another all Red, which is call'd, by some, the Bloody Colours. By which Signal, the whole Fleet may Prepare and Order themselves tor a Sea-Engagement

If any Ship of a Fleet Discovers any strange Ship, and would acquaint the whole Fleet with it; he puts abroad some Flag on that Part of the Ship which points most to the Ship seen; and Fires a Gun, to give Notice of the Signal. If it be a Fleet that is Discover'd, he puts out

two Flags.

If, in the Day time, any Ship in the Fleet, finds her felf in Danger of Foundering in the Sea, by Springing of a Leak, or any other Mischance, she may either in the Main-Top, or some give Three Guns, then shew a

Watt

Wafe from the Main-Top. If it be in the Night-time, shew a Light, and continue Firing now and then a fingle Gun; by that means they may be taken notice of, found out, and reliev'd.

If a Fleet, coming out of Sea, expects a Land-fall, the first Ship that discovers it, is to give present Notice thereof to the rest of the Fleet: If it be in the Day-time, by shewing her Colours abroad, tho' it be (for a time) in the Main-Top it felf, inclining them to feen: If it be in the Nighttime, give Two Guns, shew a Light, Tack about and stand off, that the rest of the Fleet may observe the same.

There are peculiar Signals made and known to every Ship of a Fleet, that having loft Company, and coming afterwards in fight, they may prefently be discover'd one to the other. There are also Variety of other Signals, either for the whole Fleet, some particular Squadron, or Division, or for some particular Ship or Ships, all known to the Persons concern'd, from their Instructions: So that what is here faid, ferves only to give a general Notion of Signals, and their Use. But whatever they be, at Sea, a diligent looking after them is to be practis'd, and at all times, a careful Attention is to be given, by every particular Ship in the Fleet.

SINICAL-Quadrant, is made of Brass, or Wood, with Sines drawn from each Side interfe-Cting one another; and an Index divided by Sines also; with 50 degeees on the Limb, and two Sigh's to the Edge, to take the Altitude of the Sun But sometimes, instead of Sines, 'tis divided all into equal Parts: It ferves to Solve any Problem in Plain-Sailing, and is much in Ue among the French Sermen.

SINNET, is a Line made of Rope-Yarn, commonly confiftthat Part whence the Land is ing of two, four, fix or nine Strings, platted in three Parts over one another, and then beaten smooth and flat with a a Wooden Mallet: It's Use is to serve Ropes, Gc. to keep keep them from Galling.

SKARFED, the sime with

Scarfed.

SKEGG, is that fmall and flender Part of the Keel, which is cut flanting, and left a little without the Stern-Post; 'tis now much out of Ule.

SKIFF, is the leaft of Ship-Boats: It serves chiefly to go a-thore in, when the Ship is in

Harbour.

SKUPPERS, or Skupper-Holes,

the same with Scoper-Holes.

SLATCH, when any Rope or Cable hangs flack, the mitldle Part which hangs down, is called the Slatch of the Cable, or Rope.

SLATCH of fair Weather, fo the Sea-men call a small Inter-

val Hhh 3

val of fair, that comes after foul Weather.

SLEEPERS, are Timbers lybefore and aft in the Bottom of a Ship on each Side of the Keelson; the lower-most of them is bolted to the Rung-heads, and the uppermost to the Futtocks, in order to strengthen and fasten the Futtocks and Rums.

or any heavy Things; are made, commonly, of a Rope spliced at either End into it self, with one Eye at either End, so long as to be sufficient to receive the Cask, &c. The middle Part of the Rope is also seiz'd together, and so makes another Eye to hitch the Hook of the Tackle.

slings for Hoising of Ordnance, are made much longer, and with a small Eye at each End, one of which is put over the Breech of a Piece of Ordnance, and the other Eye comes over the End of an Iron-Crow, which is put into the Mouth of the Piece, to weigh and Hoise

the Gun, as they pleafe.

SLINGS for Tards, are firong Ropes, or Iron-Chains, with which they are bound fast to the Cross-Trees a-lost, and to the Head of the Mast; that if the Tye should happen to break, or to be shot to pieces in a Fight, the Tard nevertheless may not fall down upon the Hatches.

To SLING a Man over Board,

to stop the Leaks, is done thus; The Man is trus'd up about the Middle, in a piece of Canvass, and a Rope, to keep him from finking; with his Arms at Liberty, a Mallet in one Hand, and a Plug wrapp'd in Okum, and well Tarr'd in a Tarpawlin-Clout in the other, to beat it quickly into the Hole.

sloops, are Vessels attending our Men of War, and generally of about 66 Tuns, carrying about 35 Men, and commonly two Guns. See Shallops.

SMACKS, are small Vessels, with one Mast, which attend on Ships of War, either in carrying the Men or Provision aboard: They also serve near the Coasts for Fishing, and the like.

SMALL CRAFT. See Craft. SMITING Line, is a small Rope taiten'd to the Misen-Yard-Arm, below at the Deck, and is always furl'd up with the Milen-Sail, even to the upper End of the Yard, and from thence it comes down to the Poop. It lerves to loofe the Misen-Sail, without striking down the Yard; which is eafily done, fince the Misen-Sail is ferl'd up only with Rope. Yarn; and therefore when this Rope is pull'd hard, the Rope-Yarn breaks, and fo the Sail fails down of it self.

SMITE the Misen! that is, Hale by the Smiting-Line, that the Sail may fall down.

SNATCH-

SNATCH - Block, or SNAP-

Block. See Block.

SOCKETS, in a Ship, are the Holes which the Pintles of the

Murdering Pieces go into.

SOUND, in Hydography, is any great In-draught of the Sea, betwixt two Head-lands, where there is no Passage thro': As that of the Baltic-Sea, Hudson's Bay, White-Sea, &c.

To SOUND, or Sounding, is to try the Depth of Water with a

Line and Plummer, called,

SOUNDING - Line; that is, a Line, by which Seamen find where the Ship may Sail by the Depth of the Water. 'Tis bigger than a Deep-Sea-Line, and is not much above 20 Fatham in Length. 'Tis mark'd at 2 Fathom next the Lead, with a piece of Black Leather; at 3 Fathom the like, but flit; at 5 Fathom with a piece of white Cloth; at 7 Fathom, with a piece of Red Go. with some fuch Distinction all along. This Line may be used, when the Ship is under Sail; Which cannot be done so well with the Deep-Sea-Line: in using of that, the Ship is usually brought upon the Back-Stays.

SOUND the Pump, that is, to let a small Line, with some Weight at the End, down into the Pump, to know what Depth

of Water there is in it.

SOUNDING-Lead, is fix or feven pound weight of Lead, He that near a Foot long. Heaves this Lead, stands by the

Horse, or in the Chains, and there Sings, Fathom by the Mark 5, o and a shaftment less 4, o Orc.

SOUND the Pump; that is, to let a small Line, with some Weight at the End, down into the Pump, to know what Depth

of Warer there is in it.

SOUTH, one of the four Cardinal-Points of the Mariner's-Compass, 'tis directly opposite to the North Point.

SOUTHERN-Hemisphere. See

Hemisphere.

SOUTHERN-Tropic. See Tro-

SOUTHING, is the Difference of Latitude a Ship makes in Sailing to the Southward. See Difference of Latitude.

SOUTH-Pole, is a Point in the Southern Hemisphere of the Heavens, 90 Degrees, every way, distant from the Equinoctial.

SOUTHWARD; that is, to-

wards the South.

SOUTH Declination. See Declination.

SPEEKE, the fame with

Spike.

SPELL, fignifies to let go the Sheat and Bow-lines of a Sail, chiefly the Misen; and Braceing the Weather-Brace to the Wind, that the Sail may lie more loose, in case it has fo much Wind in it, that the Malt is in danger of being wrong'd.

SPELL the Misen! that is, take in the Misen, and Peck it

up.

To do a Spell, signifies doing any Work for a short time, and then leaving it.

Work instead of such a One.

A Fresh Spell; that is, when Fresh Men come to Work, or

to Relieve another Gang.

SPENT: As, The Ship has Spent her Mast, or Yard; that is, Her Masts, or Yards, have bin Broken down by Foul-Weather, or any such Accident: But if a Ship lose her Mast, or Yard, in a Fight; then 'tis said, Her Mast, or Yard, was Shot by the Brard.

SPHERE, or Globe, is an Artificial Representation of the Whole Surface of the Terraqueous Ball; for the more distinctly Viewing of its Constituent Parts, and the better Comprehending its Various Positions; which are either Parallel, Right, or Oblique.

PARALLEL SPHERE, is that Position of the Globe, which has,

the Zenith and Nadir.

2. The Equator in the Horizon.

3. The Parallels of Latitude

Parallel to the Horizon.

And the Inhabitants of this Sphere, are those, if any, who live under the Two Poles of the World.

RIGHT-SPHERE, is that

Position of the Globe, which has,

1. The Poles of the World in

the Horizon.

2. The Equator passing thro'

the Zenith and Nadir.

3. The Parallels of Latitude Perpendicular to the Horizon.

And the Inhabitants of this Sphere, are those who live under the Equinoclial-Line.

OBLIQUE - SPHERE, is that Position of the Globe, which has.

World Above, and the other

Below the Horizon.

2. The Equator partly Above, and partly Below the Horizon.

3. The Parallels of Latitude cutting the Horizon Obliquely.

The Inhabitants of this Sphere, are those who live on all Parts of the Earth, except those exactly under the Poles of the World, and Equinottial Line.

Ptolemaic Armilar SPHERE, is that where the Great Circles of the Sphere, viz. the Horizon, Equator, Meridian, Ecliptic, with the Two Colures, and the Leffer Circles, viz. the Two Tropics, and Two Polar Circles, being made in Brass, Wood, &c. are put together in their natural Order, and placed in a Frame, fo as to represent the True Position and Motion of those Circles, and the Coelestial Bodies, suppofing the Earth the Centre of the Universe, according to the Notion

tion of Ptolemy, and his Fol-

which shews the Phanomena, supposing the Earth to Move, and the Sun placed in the Centre of its System according to the now-Receiv'd and Approv'd

Opinion.

SPIKES, or Speeks, are large long Iron Nails, with Flat Heads; they are of divers Lengths, some a Foot or two long; and some are Jagged, so that they cannot be drawn out again: They are used to fasten the Planks and Timbers of a Ship.

MARLINE-SPIKE. See Mar-

line.

spikes to the Deck, close to the Breech of the Carriages of the Great-Guns, that they may keep Close and Firm to the Ship's-Sides, and not break-loose when the Ship Rolls, and by that means endanger the breaking-out the But-head of a Plank.

of a Ship's Capstan which is betwixt the Decks. The Spindle of the Feer-Capstan has Whelps to heave the Viol. See Gapstan.

untwist two Ends of Repes, then twist them both together and fasten them one into the other.

A Cut SPLICE, is when a Rope is let into another with as much Distance as one pleases, so as to have it undone at any time, and yet be strong enough.

A Round SPLICE, is when a Rope's End is so let into another, that they shall be as Firm, as it they were but one Rope.

To SPLICE a Cable. See

Cable.

SPLIT: As, The Sail is Split; that is, The Sail is blown to Pieces.

SPOOMING, or Spooning: When a Ship being under-Sail in a Storm at Sea, cannot bear it, but is forc'd to put right before the Wind, without any Sail; then they fay, The Ship Spooms: So that if a Ship will neither Try, nor Hull, then Spoom; that is, Put her

Right before the Wind.

spooming with the Fore-fail; that is, when the Ship Spooms, and that there is danger left she should bring her Masts by the Board, with her Rolling, or Seel under-Water, and so Founder; then 'tis usual to set up the Fore-sail, to make her go the steadier, especially if there be Sea-room enough.

SPOUTS, in the West-Indies, and other Parts of the World, are, as it were, Rivers falling intirely from the Clouds, as out of Water-Spouts; they make the Sea, where they fall, rebound

in exceeding high Flathes.

SPRING a Leak, is said of a

Ship that begins to Leak.

SPRING a Mast: When a Mast is only crack'd, and not quite broken, in any Part of it, as in the Partners, the Hounds, &c. then 'tis said, The Mast is Sprung.

SPRING-

spring-TIDE, is the Encreasing higher of a Tide, after a Dead Neap; this is about Three Days before the Full, or Change of the Moon: But the Highest Spring-Tide is Three Days after the Full, or Change; then the Water runs highest with the Flood, and lowest with the Ebb, and the Tides run more strong and swift than in the Neaps.

SPRIT-SAIL. See Sail.

SPUNGING of a Great-Gun, is Clearing of its Infide after 'tis Discharg'd, with a Wad of Sheep-Skin, or the like, roll'd about one end of the Rammer: And this prevents all Danger of any Fire being left in the Piece; which might prove of ill-Confequence to him who should Load, or Charge it again.

SPUN-YARN; is Rope-Yarn, whose Ends are beaten, or scrap'd thin, and so Spun one Piece to another, that it may be as long as is necessary: It serves for several Purposes on-board a Ship, as to make Caburn, and

the like.

SPURKETS, are the Spaces betwixt the Timbers along the Ship's Side, in all Parts, betwixt the Upper and Lower Futtocks, or betwixt the Rungs fore and aft. Those in the Howl, below the Sleepers, are broad Boards, which are now and then taken up, to clear the Spurkets, when any thing has got between the Timbers.

SQUADRON, is a particular Detachment of Ships of War;

or one of the Three Bodies, which, in Order of Battle, composes the Van, Centre, and Rear: Each of which is fometimes distributed into Three Divisions, and distinguish'd by their Flags and Colours. So that when a Fleet is Divided into Three Squadrons, each Squadron has its Admiral, and each Admiral has its Flag; by which the Squadron is named, and distinguish'd, as the Flags are, either White, Blue, or Red: The Flag of the White Squdron being White, with a Frank-Quarter, and a Cross Gules. That of the Blue Squadron is Blue, with a Frank-Quarter Argent, and Cross Gules, &c.

In Sailing, also, a great Fleet is usually Divided into Three Squadrons; The Admiral's; the Vice-Admiral's; and the Rear-Admiral's Equadron: The which being distinguish'd by their Flags and Pendants, are to put themselves, and, as near as may be, to keep themselves in their

Customary Places; viz.

The Admiral with his Squadron, to Sail in the Van; that so he may Lead the Way to all the rest, in the Day-time, by the Sight of his Flag in the Main-Top-Mast-Head; and in the Night time, by his Lights or Lanterns.

The Vice-Admiral and his Squadron is to Sail in the Centre or Middle of the Fleet.

The Rear-Admiral, and the Ships of his Squadron, to bring up the Rear.

But sometimes other Divisions are made; and those compos'd of the Lighter Ships, and Best Sailors, and are placed as Wings to the Van, Centre, and Rear.

SQUARE: As, Square the

Tards! See Tards.

STAFF, Back-Staff; the same

with Quadrant : Which see.

Flag-STAFF, is that long Staff, or Piece of Wood, whereto the Flag is made fast, and along which 'tis hois'd up.

FORE-STAFF, or Cross-Staff, is an Instrument used at Sea, chiefly for observing the Sun or Star's Altitude: It is call'd Fore-Staff, from the Position of the Observer in Using it, whose Face is towards the Thing Observed, generally: Tho', for the Sun, it's so Contrivid (for Preserving the Eye) to be used Backward.

It's call'd a Cross-Staff, from its Form, being a Square Staff with three or four Pieces a-cross it, which are call'd Crosses.

The Staff is usually 30 Inches, or 3 Feet long, and more than Half an Inch Square, having four Sides, each Graduated unequally, like the Scale of Tangents; to each Side there belongs a distinct Cross: Tho sometimes, the Shortest Gross is made to serve two Sides of the Staff; that is, the Breadth is for the Ten-Cross, and Length for the Toirty-Cross: Besides this, it has two other Grosses; the Longest is call'd, the Ninety-

Cross; the other, the Sixty-Cross.
And these Four Crosses are thus
to be understood:

The Ten-Cross, belongs to that Side beginning at 3 deg. and

ending at 10 deg

The Thirty-Cross, belongs to that Side beginning at 10 deg.

and ending at 30 deg.

The Sixty-Cross, belongs to that Side beginning at 20 deg.

and ending at 60 deg.

The Ninety-Cross, belongs to that Side beginning at 30 deg. and ending at 90 deg.

### The Use of the FORE-STAFF.

It's commonly used at Sea, to take the Meridian Altitude of the Sun or Stars by; in order to find the Latitude of the Place: And that is perform'd in the following manner;

and Ninety Crosses, are to be used according as the Meridian Alti-

If less than 10 deg. use the

Ten-Cross.

If between 10 and 30 deg

If between 30 and 60 deg

ue the Sicry-Cross.

If more than 60 deg. use the Ninety-Cross.

2. Having confider'd which Cross is suitable, Put it on the Staff so, that the flat Side of the Cross may be towards the flat End of the Staff.

3. The

3. Then hold the flat End of the Staff to the Corner of your Eye; there let it rest upon your Eye-bone, as near the Corner of your Eye as you can, so it does not hinder the Sight.

4. And look to the Upperend of the Cross for the Sun, or Star; and at the Lower-end, for

the Horizon.

5. But if, at the Lower-end of the Cross, you see all Sky, and no Water; then draw the Cross a little nearer to your Eye.

6. If, on the contrary, you Crosses. fee all Water, and no Sky; then slide the Cross a little

farther from you.

7. Then, if you see the Centre of the Sun or Star at the Upperend of the Cross, and the Horizon at the Lower-end, the Gross stands as it ought.

8. Wait till the Sun or Star be on the Meridian: Upon frequent Tryals, as the Sun or Star Rises, draw the Cross a little

nearer to your Eye.

9. If the Sun or Star be fallen, you'll presently have the Horizon hid from you by the Water: then fir not the Cross out of its Place, (for the Observation is over, ) and see at what Degree, &c. it rests, (on that fide of the Staff belonging to it; ) and that will be the Meridian Look thro' the Slit-Sight, at the Altitude, or its Complement, fought, according to the word Alt. or Compl. on the Staff.

How to Use the FORE-STAFF Backwards.

This is only used with the Sun; and for this Purpole, the Ten-Cross has another Piece put cross it; fo that the Lower-edge of this Cross-Piece lies even with the Middle of the Square-Hole in the Ten-Cross; which also answers to the Middle of the Thickness of the Staff.

And there is a Plate of Brass, with a Hole in it, so fitted, that it will flide off and on the Ends of the Ninety, Sixty, or Thirty-

These Two Things added to the Fore-Staff, make it fit for a Backward Observation of the Sun;

which is thus:

I. According as the Meridian Altitude of the Sun is more or less, so use the Ninety, Sixty, or Therty-Crosses; putting it on the Staff, the Flat-Side of it even with the Flat-End of the Staff, there screw it fast; and at one End of the Cross, slip on the foresaid Brass-Plate, so as to leave a Slit-Sight thro' it near the Lower-end of the Croft.

2. Put the Ten-Cross, ( having a Cross-Piece on it,) on the-Staff, the Flat-side of it towards the other Cross, at the Staff's-

End.

3. Turn your Back to the Sun; Lower-end of the Crofs, for the Shadow of the Upper end, lying on the Ten-Cris, in the Line answering to the Middle of the

Staff.

Staff, and on each Side of the

Staff.

4. At the same time, the Horizon should be seen (thro' the faid Slit ) to lie even with the Shadow on the Middle-Line, in the Ten-Cross, at each End of it,

on both Sides of the Cross.

5. In looking thro' the Slit-Sight, you see the Shadow on the Middle-Line; but instead of the Horizon, you see only Water there; then draw the Ten-Cross nearer, till the Shadow and Horizon agree or meet in the faid Middle-Line.

6. On the contrary, Looking as before, inflead of the Horizon, you fee Sky meet the Shadow on the Middle Line; then put the Ten-Cross from you, till you fee the Horizon and Shadow nicet at the Line.

7. Continue Observing, till the Sun be at the Highest; and as the Sun Rifes, you must draw the Ten-Cross nearer, in order to keep the Horizon and Shadow together on the Middle-Line of it.

8. If the Sun be fallen (after you have continued Observing, as before Directed ) the Horizon will lie below the Shadow, on the Middle-Line; then is the Observation ended. Stir not the Ten-Cross out of its Place; for where it now stands, on that side of the Staff belonging to the Cross, at the End of ir, is the Sun's Meridianal Altitude, or Complement thereof, which was required.

STANCHIONS, or Stantions, are those Pieces of Timber, in a Ship, that are let up Pillarwife, to support and strengthen the Wast-Trees.

STANDARD - ROYAL.

Flags.

STANDING-Coins, or Standing-Quoins. See Coins.

STANDING-Part of the Sheat.

See Sheat.

STANDING-Ropes, are those which do not run in any Block, but are set tau't, or let flack, as Occasion serves, as the Sheat-Stays, Back-Stays, and like.

STANDING-Part of a Tackle, is the End of the Rope where the Block is feiz'd or fasten'd; as the other, which is hal'd, is call'd the Fall.

STARBOARD, is the Rightfide of the Ship, or the Right-Hand; as Larboard-fide is the Left.

STARBOARD the Helm! or, Helm a Starboard! in Conning a Ship, is to put the Helm to the Right-fide of the Ship, or to put the Helm a-Starboard, to make the Ship go to the Larboard; for the Ship always Sails contrary to the Helm.

STAYS; are Ropes belonging to all Masts, Top-Masts, and Flag-Staffs, except the Spritfail-Top-Mast: They serve to keep the Malls from falling aftward,

or too much forward.

Main STAY; that is, the Stay of the Main-Mast: 'Tis made fast by a Langier to the

Collar,

Collar, which comes down about their Sheats

a Knee, below the Head.

Main-Top-Mast.STAY, is made fast to the Head of the Foremast, by a Strap and Dead-Man's-Eye.

is, in like manner, made falt to the Head of the Fore-Top-Mast.

The Fore-Mast, and Masts belonging to it, are likewise Stay'd to the Bowsprit, and Spritsail-Topsail-Mast: And those Stays, do likewise Stay the Bowsprit it self.

Misen-STAY comes to the Main-Mast; and the Misen-Top-Mast-Stars, to the Shrouds, with

Crows-Feet.

All Stays have their Blocks; and their length are generally, the same with that of the Mast

they belong to.

Back-STAYS, are those which serve to keep the Masts from pitching forward, or over-board, because they go on either Side of the Ship; and therefore the Main-Mast, Fore-Mast, with the Masts belonging to them, have these Back-Stays.

STAYING a Ship, or, To bring a Ship upon the Stays, is in order to her Tacking, and

is done thus:

At the same time,

Bear up the Helm!

Let Flie the Fore-sail-Sheat!

Let go the Fore-Bow-line!

Brace the Weather-Brace of the

Fore-sail.

The same is also done to the Topsail and Top Gallant-sail, only

their Sheats must be kept fast.

If the Spritsail be out, then, Let go the Spritsail-Sheat, with the Fore-Sheat, And Brace the Weather-Brace!

But the Tacks, Sheats, Bracings, and Bow lines of the Main-sail, Main-Top-sail, and Misen, are not altered.

And when the Wind comes in at the Bow, which before was Lee Bow, it drives all the Sails Backwards against the Shrouds and Masts; so that the Ship makes no Way forward, but drives with her Broad-side. And those are accounted the best Ships, which will Stay with the sewest Sail.

STEADY! is a Word of Command to the Man at Helm, to keep the Ship right upon that Point he Steers by, and not to make Yaws in or out.

STEER: To Steer a Ship; is to Guide, or Direct her Course

by the Helm.

And there are Three ways to

Steer by ; viz.

1. By any Mark on the I and, fo as to keep the Ship even

by it.

2. By the Compass; which is, to keep the Ship's-Head upon such a Rumb, or Point of the Compass, as best leads to the design'd Port.

or Conn'd; which is the Duty

(in

(in Great Ships) of him that is taking his Turn at the Helm.

And he is reckon'd the best Steers-man, that uses the least Motion in putting the Helm over, to and again, and that keeps the Ship best from making Taws, that is, from running in and out.

STEERAGE, is that Part of the Ship next below the Quarter-Deck, before the Bulk-head of the Great-Cabbin: 'Tis here, in most Ships of War, stands the Steers-man, or he that Guides the Helm or Rudder of the Ship.

STEEVE: The Bomsprit, or Beak-head of the Ship, does Steeve; that is, it either stands too-upright, or not strait enough

forward.

STEEVING, is also a Word used by Merchant men, when they flow Cotton, or Wool, which is forc'd in with Screws; this they call Steeving their Cotton, or Wool.

STEM of a Ship, Min-Stem, is that great Piece of Timber which is wrought Compassing, and Scarf'd at one End into the Keel of a Ship, and comes bowing or bending right before the Fore-Castle. This Stem guides the Rake of the Ship; and all the But-ends of the Planks forwards are fix'd into it.

the Right one, where that is made too-flat for the Ship to keep the Wind well: Which Defect is remedied by a False-Stem;

that will make her Rid more Way, and bear a better Sail.

STEP of the Mast or Capstan, in a Ship, is that Piece of Timber whereon the Masts or Capstans

do frand at bottom.

STERN of a ship, is, properly, the Outmost-part of a Ship, abast: Tho', generally speaking, 'tis all the Hindermost' or Astmost-part of a Ship.

STERN-Chase. See Chase.

STERN-Fast, is some Fastenings of Ropes, &c. behind the Stern of a Ship, to which a Cable, or Hawser, may be brought or fix'd, in order to hold her Stern fast to a Wharf, &c.

STERN-Post, is a great Timber let into the Keel, at the Stern of the Ship, somewhat sloaping, into which are fasten'd the After-Planks: And on this Post hangs the Rudder, by its

Pintles and Gudgeons.

STEWARD of a Ship, is he that receives all the Victuals from the Purser; and he is to see it well Stow'd in the Hold: In his Custody are all Things of that nature belonging to the Ship's Use. He is to look after the Bread, and to distribute out the several Messes of Victuals in the Ship. He has an Appartment for himself in the Hold, call'd the Steward-Room: And he has usually a Mate under him.

STIRRUP of a Ship, is a Piece of Timber put on the Ship's Keel, when some of it

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is beaten off, and the Carpenter cannot come to mend it, or put in a new Piece; then they patch on a Piece of Timber, and bind it with an Iron which goes under the Ship's Keel, and comes up on the other Side of the Ship, where 'tis nail'd fast with Spikes; and this they call a Stirrup.

STOAR'D: The Ship is Stoak'd, or a-Stoak; that is, when the Water in the Bottom of the Ship, cannot come to the Well

of the Pump.

that is, when the Water cannot

pass thro' them.

The Pump is Stoak'd; that is, when something is got into it, which choaks it up, so that it will not work.

STOCKS; is a Frame of Timber, and great Posts, made a-Shore, to Build Pinnaces, Ketches, Boats, and such Small-Crafts, and sometimes Small Frigats.

A Ship is on the Stocks; that is faid of a Ship when she is a B ilding.

STOCK of an Anchor. See

Anchor.

STOP a Leak. See Leak.

stop: To Stop the Ship; that is, when she comes to an Anchor, and the Cable is veer'd out but by degrees, till the Ship Rides well.

by him that holds the Half-Minute-Glass, in Heaving the Log: For as soon as the Glass is out, he calls, Stop! to them that let run the Line.

STOPPER, is a Piece of Rope, in a Ship, having a Wail-Knot at one end, with a Lannier spliced into it; and at the other end 'tis made fast in the Place where 'tis to be used: It serves to stop the Main-Halliards, or the Cable.

The Stopper for the Halliards, is fasten'd at the Main-Knight; and it serves, when they are Hoising the Main-Yard, to Stop it, while the Men that Hale, may stay and rest a little. But 'tis chiefly used for the Cable, to stop it, that it don't run out too fast.

Lay on the Stopper! That is, Bind the Wail-Knot about the Cable with the Lanniers, and that Stops it, so that it can't slip away. This Stopper is fasten'd to the bottom of the Bits, by the Decks.

The Ship Rides by the Stoppers; that is, when the Cable is fasten'd or Stay'd only by them, and not Bitted: But this is not safe Riding, in a Stress of Weather.

STOW: To Stow, is to put the Goods, in order, into the Hold of the Ship; the most Ponderous and Heavy, next the Ballast.

STOWAGE; the putting of Goods into the Hold of the Ship.

STORM, or Tempest, is well known to be, a violent Wind, which raises the Sea to a high degree degree of Rage and Foam, and endangers all Ships that lie under it, by its exceeding Breaks. In this Case, a Ship that has Sea-Room enough, 'tis best to let her Top-Masts stand, for then she will make better way thro' the Sea.

STRAIT, is a Narrow Sea, flut up between Lands on either Side, affording a Passage from one Great Sea into another.

# In Europe there are,

The Straits of Dover, joining the German Sea to the English Channel.

The Straits of the Sound, joining the Danish to the Baltic

Sea.

The Straits of Gibralter, jointhe Mediterranean to the Western Ocean.

The Straits of Caffa, joining Palus Meotis to Pontus Euxinus,

or the Black Sea.

The Thracian Bosphorus, joining the Black Sea to the Pro-

The Hellespont, joining the Pro-

pontis to the Archipelago.

The Veer of Messina, joining one Part of the Mediterranean to another.

#### In ASIA, there are,

The Straits of Sunda, joining the Eastern and Indian Ocean.

The Straits of Ormus, joining

the Gulf of Persia to the Sou-

## In AFRICA, only,

The Straits of Babelmandel, joining the Red-Sea to the Eaflern Ocean.

## In AMERICA, there are,

The Straits of Magellan, joining the Vast Eastern and Western Ocean.

Davies's Straits, joining Baffin's Bay to the Eastern Ocean.

Hudjon's Straits, joining Button's Bay to the Eastern Ocean.

STRAKE, is a Seam between two Planks.

Garboard-STRAKE, is the first

Seam next the Keel.

The Ship heels a-Strake; that is, the Ship hangs or inclines to one Side the Quantity of an whole Plank's Breadth.

STRAP, in a Ship, is the Rope which is splic'd about any Block; and made with an Eye, to fasten it any where on Occasion.

STREAM-Anchor, is only a fmall one made fast to a small Stream-Cable, for a Ship to Ride by in gentle Streams, and in Fair Weather, when they would only stop a Tide.

STREAMERS, the same with

Pendants.

STRETCH; as, Stretch forwards the Halliards, or Sheats! that signifies, (in Hoising the Lii Yard, Yard, or Haling the Sheat,) that the Part which the Men are to Hale by, should be put into their Hands, in order to their Hoising, or Haling.

STRIKE, is a Word variously

uled at Sea; as

The Ship Strikes; that is, when a Ship in a Fight, or on meeting with a Man of War, lets down or lowers her Top-Sails, at least half Mast high, which is called Striking the Top-Sails upon the Bunt; and fignifies, that she yields or submits, or pays her Devoir to that Man of War she passes by.

STRIKE; it is also said, that the Ship strikes, when she touches Ground in Shoal Water.

STRIKE the Tot-Mast! That is faid, when any Top-Mast is to be taken down.

STRIKING down, of any thing, into the Hold; that is, to let or lower down any thing into the Hold.

STRIP; As, the Chase Strips bimself into Short or Fighting-Sails; that it, puts out his Colours in the Poop; his Flag in the Main - Top; his Streamers or Pendants at the End of his Yard-Arm; Furls his Sprit-sail; Peeks his Misen, and Slings his Main-Yard. In which Case, the Chaler must provide h mself to Fight.

STUDDING-Sails. See Sails. SUN's Altitude or Height, is an Arc of a Vertical Circle intercepted between the Sun and the Horazon.

SUN's Meridian Altitude, is an Arc of the Meridian intercepted between the Sun at Noon,

and the Horizon.

This is easily found by means of a Quadrant, Cross-Staff, or the like Instrument; when an Observation can be made, in order to get the Latitude of the

Place. See Observation.

SUN's Amplitude, is an Arc of the Horizon intercepted between the East and West Point and the Place of the Sun's Rifing and Setting. 'Tis useful for finding the Variation of the Com-See Variation.

And the Sun's Amplitude is readily found (having the Latitade and Declination given) by

this

#### Proportion.

As the Cofine of the Latitude of the Place,

Is to the Radius,

So is the Sine of the Sun's Declination,

To the Sine of the Sun's Amplitude.

SUN's Azimuth, is an Arc of the Horizon intercepted between the Meridian and the Vertical Circle which passes thro' the Centre of the Sun. It ferves chiefly for to find the Variation of the Compass- See Varia-\$10m.

And having the Latitude of the Place, Sun's Declination and Altitude given; his Azimuth is found by this RULE.

Add

Add the Complements of your Data together, and find the Difference between their Half-Sum and the Co-Declination.

Then set down the Logarithm-Sines of the Half-Sum, and Dif-

ference found.

As also the Arithmetical Complement of the Logarithm-Sines of the Co-Latitude and Co-Altitude:

And twice the Complement of the Arc answering to \frac{1}{2} the Sum of these four Logarithms, (taken among the Sines) is the Azimuth sought.

SURFF of the Sea, is the great Breakings, or Rolling of the Sea against some Shores; making it dangerous Landing in such Places.

SURGE; that is, a Wave or

Billow of the Sea.

To SURGE: As, the Cable Surges; that is, slips back a little, when there is Heaving at

the Capstan.

SURGEON, or Chirurgeon of a Ship, is he that attends and administers Physick to the fick, and takes care of the wounded: Therefore his Cheft ought to be well furnish'd with all Necessaries proper for the Climate the Ship is bound to; The Neglect of which has bin the Loss of of many Men's Lives: Besides 'tis well known, That many of the Surgeons, but more especially their Mates (who are their Affistants) which are employed in the Fleet, are not altogether fo well Qualified as they ought to be; and yet the Poor Men are fore'd to depend on their Skill, not only in Surgery, but in Physick also, in the Absence of a Physician: And it may be question'd whether there are many of the Absence of the Seasurgeons, Qualified to judge nicely of many Distempers incident to a Sailor, therefore they must, if not so Qualified, be greatly to seek for proper Remedies.

SWABBER, is an Inferior Officer a board a Man of War; whose Business is to see that the Ship be kept Clean and Neat; in order to which, he is to see her well wash'd once or twice a Week at least: And he ought to burn Pitch, or some such thing, now and then between the Decks, to prevent Infection; and to acquaint the Commanding Officers of such as are Nasty and Offensive.

SWEEP: as the Sweep of the Ship, or Sweep of the Futtocks; that is, the Mould of a Ship when she begins to Compass in

at the Rung-heads.

SWEEPING; that is, dredge ing along the Ground, at the Bottom of the Sea, or Channel, with a Three-flook'd Grapnel, to find some Hamser, or Cable, which is slip'd from an Anchor.

SWIFTERS, are Ropes belonging to the Main-Masts, and Fore-Masts; they serve to succour and strengthen the Shrouds, and to keep the Masts stiff: They have Pennants sasten'd Lii 2 under under the Shrouds at the Head of the Masts, with a double Block thro' which the Swifter is Reev'd, which at the standing Part has a single Block with a Hook hitch'd in a Ring at the Chain-Waile; and so the Fall being Haled up, helps to strengthen the Mast; and 'tis belay'd about the Timber-heads of the lower Rails aloft.

SWIFTING of a Boat, is forward the Clew of the Sail, Compassing her Gun-Wall round to make it stand close by a with a good Rope, to strength. Wind. The Tacks of a Ship en her in stress of Weather, are usually belay'd to the Bitts, that she be not shartter'd by the or else there is a Chevel on pur-

Violence of the Sea.

is straining a Rope all round the outer Ends of the Capstan-Bars, in order to strengthen them, and make them bear all alike, and together when the Men heave or work there.

SWIFTING of a Ship, is ei-

upon a Carreen.

Swifting of a Ship, to ease and strengthen the Masts, that all the Weight may not hang by the Head, and to keep them from Rising out of the Step: All the Pennants of the Swifters and Tackles are laid close to the Mast with a Rope, and as near to the Blocks as can be; then the Tackles are cartied forwards, and hal'd down, as tau't as possible.

T

ACK, is a great Rope with a Wale-Knot at one End, which feiz'd into the Clew of the Sail, fo is Reev'd thro' tht Chesse-Trees, and then is brought thro' a Hole in the Ship's-Side. It flerves to carry forward the Clew of the Sail, to make it stand close by a are usually belay'd to the Bitts, or else there is a Chevel on purpose to fasten them; they belong only to the Main-Sail. Fire-Sail, and Misen. When the Sails are to be Trimm'd fo as to stand close to a Wind: Then

The Main, Fore, and Milen-Tack are brought close by the Board, and over-hal'd as forward as they can be;

The Bowlings are so also on

the Weather Side;

The Lee-Sheats are Haled close

As also the Lee-Braces of all the Sails are likewise Braced Aft: And the Top-Sails are Braced and govern'd, as the Sails whereto they belong.

Hale aboard the Tacks! That is, bring the Tack down close

to the Cheis-Trees.

en it, or let it go, or run out

Let rise the Tack! That is, Let it go all out.

The

The Ship Sails, or Stands close the Wind.

To TACK. about; is to bring the Ship's-Head abour, so as to lie the contrary way: Which is perform'd thus;

First, Make the Ship Stay; and when the is Stay'd, they

lay the is Pa,'d.

Then, let Rife, and Hale! That is, Let the Lee-Tack Rife, and Hale aft the Sheats; and fo Trim all the Sails, by a Wind as before: For they cast off that fo is brought to the Capstan, which was before the Weather-Bow-line, and let up the other Tau't.

And thus they do also by all Sheats, Braces, and Tacks, which a Ship that is Trimm'd by a

Wind must have.

TACKLES, are Ropes running in three Parts; having a Pennant with a Block at one end; and a Block with a Hook at the other end, to hang any Goods upon, which is to be Heav'd in, or out of the Ship. And there are feveral forts of Tackles: As,

Brat's and Bores TACKS, made fast to the Main and Fore-Shrouds, to Hoise the Boat in, or out : And to keep firm the Masts from from straying; as also, for

many other Uses

Ground-TACKLE See Ground.

Gunner's-TACKLES, ferving for Haling the Ordnance in or out.

Winding-TACKLE; is a Lackle that ferves as a Pennant, with a great Double-Block and Three

Shivers in each, seiz'd fast to upon a Tack; that is, close by the end of a small Cable about the Head of the Mast: It has a Guy brought to it from the Fore-Mast. Into this Block there 15 reev'd a Hawler, which is allo reev d thro' another Double-Block, having a Strap at the end of it; which being put thro' the Eye of the Slings, is lock'd into it with a Fidd, in order to Hoise in Goods.

> The Fall of this Tackle is reev'd into a Snatch-Block, and whereby the Goods are Heav d.

> There is also another Tackle, call'd Burton; which fee under

the word Burton.

TAFFEREL, is the uppermost Part, Frame or Rail of a Ship,

abatt over the Poop.

TALLY the Sheats! is a word of Command, at Sea, when the Sheats of the Main-fail or Fore-

fail is to be Haled aft.

TAMPION, Tampkin, Tampin, is a a Round Piece of Wood made fit for the Mouth of any Great Gun: It serves to ftop it, so that no Sea-Water or Rain may get in to wet the Powder.

TAR PAWLING, is a Piece of Canvale well Tar'd over, to lay on or over any Place, to

keep off Rain.

And a Downright Seaman, that has bin all his Life-time bred up to the Sea, is call'd, in a Burlesque Sence, Tar-Pawling; as when we lay, He is a True Tar-Pawling.

I11 3

TARTANE, is a fort of Barque, very common in the Straits, and upon the Coasts of Spain: They carry One Mast, and generally a Three-Corner'd Sail'd.

TAU'T, fignifies Stiff, or

Faft ; As,

Hale Tau't a Rope! That is,

Set it Stiff, or Strait.

Set Tau't the Shrouds, or Stays ! That is, Let them be more Tight and Stiff, , that are too-Slack, and Loofe.

Wind-TAUT. See Wind.

TAUNT: The Ship is Taunt-Masted, or her Masts are very Taunt; that is, Her Masts are too Tall for her.

TEMPEST. See Storm.

TENDERS, are Small Ships employ'd in the Service of Men War, for Carrying of Men, Provision, or whatever else is necellary.

THAUGHTS, or Thoughts, are the Benches on which the Rowers Sit in a Boat to Row; or the Rowers Seats, in a Ship's- Boat.

THOWLES, are those Pins in the Gunnel of a Boat, against which the Rowers bear the Oars, or between which they put their Oars, when they Row.

THWART the Hawfe. See

Hamle.

Ride a-THWART. See Ride. TIDE, fignifies as well the Ebbing, as the Flowing of the Sea.

Flowing of the Sea call'd.

TIDE of Ebb; that is, the Ebbing or Reflux of the S.a. See Ebb.

A Windward TIDE, is when the Tide runs against the Wind; this makes the Water, generally, Rough.

Leeward-TIDE, is when the Wind and Tide go both together

the same Way.

Spring-TIDES, are the Tides at New and Full Moon: They Flow Highest, and Ebb runs Strongest. See Spring.

Neap-TIDES, are the Tides, when the Moon is in the Second and Last Quarter; being neither so High, nor so Swift as the

Spring-Tides.

TIDE-Gate; that is, where

the Tide runs very strong.

To TIDE it over, or up into any Place; is to go with the Tide of Flood, or Ebb, as long as that lasts, then to stay at an Anchor all the Time the contrary Tide lasts, and the next Tide, set in again, till the same Tide returns: Thus one may often-times work against the Wind, if it don't Over-blow.

It Flows Tide and Half-Tide; that is, it will be Half-Flood by the Shore, before it begins to Flow in the Offing: Or it will be High-Water Cooner by Three Hours at the Shore, than at the Offing.

They brought the Tide along with them; that is, ( speaking of a Ship that came into the TIDE of Flood, fo is the Harbour, over a Bar, or Sand, They came in with the Flood.

Eddy-

Eddy-TIDE. See Eddy.

And the Flux and Reflux of the Sea, is occasion'd by the Water, (if supposed to cover all our Globe, ) its putting on two Oblong Spheroidal Figures, whose Axes produced, would pass thro' the Moon and Sun. This Spheroidal Figure of the Ocean, being stretch'd out like two Mountains, the oue towards the Moon, and the other to the Part opposite to her, is continually shifting, according to the Daily Motion of the Moon, which it follows; Or rather, The Earth, from its Diurnal Motion, thifts its felf away from thefe Mountains of Water, which keep, as it were, Immoveable under the Moon. Therefore, it follows, that the Waters twice Rise and Fall in 25 Hours; in which Time the Moon is suppos'd to move from the Meridian of any Place, to the same again.

And fince the Waters also will fwell in those Places to whom the Sun is in the Zenith or Nadir, tho much less than when the Moon is so posited; therefore, in the Conjunction and Opposition of these Luminaries, the aforesaid Protuberances of the Water will be conjoin'd; and consequently, cause then the Highest Spring-Tides; for the Water is then Elevated by the conjoint Forces of both : So that the Lowest Ebbs will be when both those Luminaries are in the Horizon of any Place; for the Water is now Depress'd by the conjoint Force of both.

Also, in the Quadratures of the Luminaries, the Sun Elevates the Water where the Moon makes it Fall, and makes it Fall where the Moon Elevates it: So that the Elevation of the Water, depending only on the Difference of these Forces, will be the least of all; and so for

the Depression.

And when the Moon is in the Equinoctial, the two opposite Protuberances of the Water, will be also in the Earth's Equator, and each of them describing that Great Circle of the Earth, by its Diurnal Revolution, it will move swifter; and when it is thrown towards the Shores, will rife higher there. Also, something must be allow'd for the Equatorial Diameter of the Earth, being its longest, and consequently the Water there being something nearer to the Luminaries, will, by their Influence, be raifed higher, than in other Parts.

So that whenever the Luminaries are either in Conjunction, or Opposition, in the Equator, their Forces will be conjoin d to Raise or Elevate the Sea at the Equator; as happens at the Syzygies next the Equinoxes, or in or near March, or September, when there is always the greatest

Annual Tides.

All these Things would regularly come to pass, if the whole Earth were cover'd with Water very deep: But by reason of the Shoainels of some Places,

Nar-111 4

Narrowness of the Straits, of Islands, &c. there will be an infinite Variety in the Phanomena of the Tides, which are not to be accounted for, without an exact Knowlege of all the Circumstances of the Places; as of the Position of the Land, and of the Breadth and Depth of the Chanels by which the Tide Flows, &c.

TIES, are those Ropes by which the Yards do hang; and when the Halliards are strain'd to Hoise the Yards, these Ties

carry them up.

The Main-Tard and Fore-Yard-Ties are first reev'd thorow the Ram's-Head, then thorow the Hounds, with a Turn in the Eye of the Slings made fast to the Yard.

The Misen-Yard and Top-Yard

have but fingle Ties.

The Spritsail-Yard has none; bei g made fast to the Bowsprit

with a Pair of Slings.

TILLER, the same with the Helm of a Ship: It is most properly used in a Boat, where that which would be the Helm of a Ship, is call'd the Tiller, and serves for the same Use.

Tilt-Boats, are those which have Bails or Hoops over the Stern, cover'd with a Tar-Pawling, or the like; and this so set up, is call'd the Tilt of the Boat; as is common in Wherries.

TIMBERS: In a Ship, there are the

Floor, or Ground-TIMBERS,

which form the Floor of the Ship: These Timbers are strait, except at the Ends, where they begin to Compass; they lie on the Keel, and are fasten'd to it with Bolts thro' the Keelson; and are call'd Ground-Timbers, because the Ship rests upon them when she is a-Ground.

Knee-TIMBERS. See Knee.

Rising TIMBERS, are the Hooks placed on the Keel: They are so call'd, because as these Rise in Proportion, so the Ship's Rake and Run Rise on her Flat-Floor by degrees.

Row of them placed along the Ship's-Side, either above upon

Deck, or below.

Also, Three-Deck'd Ships have Three Tire of Guns, call'd the Lower, Second, and Third or Upper Tire: The Lower-Tire have, generally, the Greatest Guns; and Upper-Tire, the Smallest.

Half a TIRE: The Fore-Castle and the Half-Decks are also furnish'd with Half a Fire

of Guns.

TITE, or Tight: As, The Ship is Tite; that is, She is so Staunch, as to let in but little. Water: And this is known by the Smell of the Water Pumpt out; for if she let in but little Water, it will always Stink, otherwise not.

TON, or Tun, is a certain Weight by which the Burden of Ships are Estimated, and is Twenty-Hundred Weight, or 2240 Pounds Averdupoise.

TONNAGE,

TONNAGE, is a Custom, or Impost paid to the King, for Merchandise carry'd out, or brought in Ships, and fuch-like Veffels, according to a certain

Rate upon every Ton.

TOP of a Ship, or Round-Top, is a Round Frame of Boards lying upon the Cross-Trees, near the Head of the Mast; where the Men may fland to Furl and Loofe the

Topfails, &c.

TOP-ARMINGS, are a fort of Cloths hung about the Round-Tops of the Masts, for Show; and also to hide the Men which are at the Top, in a Fight; who lie there to fling Stink-Pots, &c. or to fire Small-shot down on the Enemy, in case of Boarding.

Man the TOP! See Man.

TOP-GALLANT-MASTS of a Ship, are those two, viz. Main-Top-Gallant-Mast, and Fore-Top-Gallant-Mast: Which are fmall round Pieces of Timber. fet on their respective Top Masts; having on their Top the Flag-Staffs let, on which the Colours, as Flags, Pendants, &c. hang.

TOP-MASTS of a Ship, are

these Four, viz.

Main-Top-Maft, Fore-Top-Mast, Milen-Top Mast, Spritfail-Top Mast,

Which are made fast, and settled unto the Heads of the Main-Mast, Fore-Mast, Misen-Mast, and Bowsprit respectively.

TOP - MARTNETS. See Marineis.

TOP-ROPES, are those with which, the Top-Masts are Set,

and Struck.

They are reev'd thro' a great Block, which is feiz'd on one fide under the Cap; and they are reev'd thro' the Heel of the Top-Maft, where there is a Brass-Shiver plac'd a thwart Ships; after this they brought up, and fasten'd on either fide of the Cap with a Ring: The other Part of them comes down by the Ties, and fo is reev'd into the Knighthead.; and when it is to be Heav'd, 'tis brought to Capitan:

These Top-Ropes belong only to the Main-Mast and Fore-

Milt.

TOP-SAILS, and Top Gallant-

Sails. See Sails.

TO'-SAIL-Lifts. See Lifts.

TOP the Fard Arms! That is, Make the Ends of the Yards hang Higher, or Lower. Tards.

TOP a-Starboard! That is, Hale upon the Larbord-Lift.

TOPPING the Lifts; that is,

Haling of the Topfail-Lifts.

TORNADO'S, the same with Turnado 3.

TOUCH: As, Touch the Wind! That is, Keep the Ship near the Wind; as the Method is, in Sailing against the Wind.

TOW : To Tow, fignifies, to Draw or Drag any Thing after

the Ship.

To Tow a Ship, or Boat; That is, to Draw them with a Rope, after the Ship; then they are faid to be Tow'd, or to be in her Tow.

TRADE-Winds. See Winds.

TRAILE-Board, is a Carv'd Board on each fide of the Ship's Beak, reaching from her Main-Stem to the Figure, or to the Brackets.

TRANSOM, is a Piece of Timber that lies a thwart the Ship's Stern, between the two Fashion-Pieces, directly under the Gun-Room-Port; and it lays out the Breadth of the Sip at the Buttocks: As when a Ship is built Broad or Narrow at her Transom, the is faid to have a Broad or a Narrow Buttock.

TRANSOM, is also the Vane of a Cross-Staff, which is made to flide along upon the Staff, by means of a Square Socket; and may be let to any of the Graduations thereon, in an Observation.

TRAVERSE, is the Way of a Ship, when the makes Angles in and out, and cannot keep directly to her True Course; because of the Shifting of

Winds, &c.

And in Sailing by, or against. the Wind, there inould be an Allowance made for Leeward-Way, and that according to the Mould of the Ship, the Sail the Bears, the Growth of the Sea, Gc.

Resolving, or Working a Traverse, is the Reducing of these Courses, found by the Compass; and Distances found by the Log, into one Course and Distance:, And that is done after this manner:

1. Make a Table, confifting of Six Columns; in the First Column fet the several different Courses of your Day's Sailing.

In the Second Column, overagainst the respective Courses, fet the Distances in Miles; and let the other Columns be titled at the Top, with South, North, East, West.

- 2. By the Table of Difference of Latitude and Departure, found in most Books of Navigation, seek the Difference of Latitude and Departure, for each Course and Distance, in your Traverse; and let each Difference of Latitude, as the Course is South or North, under Southing or Northing: Also, set each Departure, as the Course is East or West, under Easting or Westing, respectively.
- 3. Add up the Northings and Southings; their Difference will be the Difference of Latitude.

And add up the Eastings and Weltings; their Difference also, will be the Departure lought.

4. With this Difference of Latitude and Departure found: The direct Course and Distance

is readily had, either by the Traverse-Table, Gunter's Scales,

or Logarithms.

TRAVERSE-Table, is the same with the Table of Difference of Latitude and Departure, in Books of Navigation; being only the Difference of Latitude and Departure ready Calculated to every Degree, Point, Half-Point, and Quarter-Point of the Quadrant, and for any Diffance under 100 Miles, tho' it may conveniently ferve for more.

This Table is one of the most necessary Instruments, that a Navigator has occasion for; since by this he may readily reduce all his Courses and Distances; run in the space of 24 Hours, into one Course and Distance; whence the Latitude he is in, and his Departure from the Meridian is found; and not only that, but the Disterence of Longitude is gain'd also by Inspection, and that near enough for a Sailor's Purpose, in common and daily Practice. See Longitude.

TRAVERSE-Board, is a little round Board hanging up in the Steerage of the Ship, or elsewhere, and bored full of Holes upon Lines, shewing the Points of the Compass: And upon this Board, the Steers-man keeps an Account how many Glasses (that is, Half-Hour) the Ship Steers upon any Point, by moving a little Peg from Hole to

Hole-

TRAVERSE, To Cast a Point of Traverse. See Gast.

TRAVERSE, also signifies to turn or remove a Piece of Ordnance, this, or that way, in order to bring it to Bear: and this is called Traversing the Piece.

TRAVERSE the Tard! that

is, Brace it Aft.

TREE-NAILS, or Trennels, are long Pins, or Nails of Wood, made out of the Heart of Oak, to fasten the Planks to the Timbers; and these have always Oakum driven with them, to prevent any Leak.

TREES, in a Ship: Of Timbers fo called, there are several, as

bers on each Side of the Ship, for the Main-Tack to run thro' and to Hale it down to. See Chess.

CROSS-TREES. See Crofs.

ROUFE-TREES, are small Timbers that bear up the Gratings from the Half-Deck to the Fore-Castle; supported by Stantions that r.st upon the Half-Deck.

WASTE-TREES, are those Timbers of a Ship that lie in

the Waste.

TRESSEL-TREES, are those Timbers of the Cross-Trees, that stand along Ships, or Fore and Aft at the Top of the Mast. See

Cross-Trees.

TRICE, or Trife, fignifies, haling up any thing by a Dead Rope, or one that does not run in a Block; But is done by hand, or by main Strength: So if any Cheft, Cask, or other Goods, has only a Rope made fast to it, and is pulled

up by hand into the Ship, without a Tackle, then they fay, 'tis Tris dup.

TRIM of a Ship, is her beft Posture, Proportion of Ballast, and hanging of her Masts, &c.

for Sailing.

To find the Trim of a Ship; that is, to find the best Way of making any Ship Sail fwiitly, or how the will Sail beft.

This is done, either by trying her Sailing with another Ship, so many Glasses Trimm'd a Head, lo many a-Stern, and fo many upon an even Keel: Or elfe by eafing of her Masts, and Shrouds; some Ships Sailing much better when Slack, than when they are Tau't.

But this depends very much upon Experience and Judgment, and the feveral Trials and Observations which the Commander and other Officers may

make a-board.

TRIP; as the Sip goes with ber Top-Sails a-Trip; that is, when the carries her Top-Sails hoisted up to the highest, and when it blows not too hard, but a gentle or Loom-Gale.

TROPICS, or Tropicks, are two Circles supposed to be drawn parallel to the Equinoatial, at 23 degrees and 30 minutes diffant from it.

These Circles are term'd the Limits of the Sun's Progress; for between them the Sun is suppo- between two Waves. fed to have his continual Course,

and never exceeds beyond any of them.

TROPIC of Cancer, is that Circle which is suppos'd to be drawn parallel to the Equino-Etial Northward, 23 degrees 30 minutes distant from it; and therefore is called the Northern Tropic; it passes thro' the Beginning of the Sign Cancer: And when the Sun comes to this Circle, that is, about the 12, or 13th of fane, it makes the Summer Solftice, and the Longest Day (and Shortest Night) in the Northern Hemisphere; and therefore, the contrary in the Southern ore.

TROPIC of Capricorn, is that Circle which is supposed to be drawn parallel to the Equino-Etial Southward, about 23 degrees, 30 minutes distant from it, and therefore is called the Southern-Tropic; it passes thro the Beginning of the Sign Capricorn: And when the Sun is faid to come to this Circle, that is, about the 12th or 13th of December, it makes the Winter Solftice, and the Longest Day and Shortest Night in the Southern Hemisghere, and therefore the contrary in the Northern one.

TROUGH of the Sea, is the Hollow or Cavity made between two Waves or Billows, in a Rol ing Sea.

The Ship lies in the Trough of the Sea; that is, She lies down

Wood at the Top, wherein the Flag-Staff is put.

TRUMPETER, a Sea-Trumpet, whose Office is always to attend the Captain's Command; to be ready at the Entertainment of Strangers: Also when a Ship is Haled; and an Enemy's Ship Charg'd, Boarded or Enter'd. The Poop is his proper Station.

TRUCKS, belonging to the Carriage of a Piece of Ordnauce; are the Wheels which are on the Axle-Tree, to move the Piece.

TRUNDLE-Shot. See Shot.

TRUNNIONS, are Pieces of well-feafon'd Wood, to make fast the Ship's Timber with.

TRUNNIONS, of a Piece of Ordnance, are those Nobs or Bunches of the Gun's Mettal, which bear it up upon the Cheeks of the Carriage.

TRUSSES; are Ropes made fast to the Parrels of a Yard in a Ship; they serve either to bind the Yards fast to the Masts, when the Ship rolls, lying either a Hull, or at Anchor; or to Hale down the Yards in a Storm, or Gust of Wind.

These Trusses belong to the Main-Tard, Fore-Tard, and Mifen; and are all brought to upon Occasion.

TRY; as the Ship. lies a-Try under a (Main-Sail, or) Main-Course; that is, when the has

TRUCK, is a square Piece of no Sails abroad, but her Main-Course; the Tacks Hal'd close aboard; the Bow Lines let up; the Sheats haled close Aft; and the Helm tyed down close by the Board; and so she is let lie in the Sea: But at this time, if she be upon a Wind, the usually makes her Way good, near Three Points before the Beam.

To Try under a Misen-Sail: This is done when it blows so hard, that they cannot maintain the Main-Siil; that is, cannot bear the Main-Sail out: And then, if the lie close by the Wind, she'll make her Way about Two Points before the Beam.

But if the Try under a Main-Sail and Misen, she'll make her Way good about Four Points before the Beam.

If the Ship will neither Try nor Hale, then Sprom; that is. put her Right before the Wind.

TUCK of a Ship, is the gathering up of the Works upon her Quarter under Water; which it it lie too low or two deep, makes her have a broad or a flat Quarter, and hinders her Steering, by keeping the Water from paffing swiftly to the Rudder: But it it lie too high above the Water, the must be laid out in that Part, otherwife the will want Bearing for her After-Works.

TURN, as Land-Turn. See Lang.

TURNA.

TURNADO'S; are violent, fuddain Gusts of Wind from all Points of the Compass; frequent upon the Coast of Guinea.

#### V

Trough by which the Water runs from the Pump along the Ship's Sides, that it may go out at the Scupper-Holes.

VAN of a Fleet. See Squa-

dron.

VANES; are those Sights which are made to move and slide upon Cross-Staffs. See Quadrants, &c.

VARIATION of the Magnetic Needle or Compass, is the Deflection of the Magnetic Needle from the True Meridian; or that Arc of the Horizon, either Eastward or Westward, intercepted between the True and Magnetic Meridian. See Compass.

by the Sun's Amplitude, or Azi-

muth.

1. To find the Variation of the Compass by the Sun's Amplitude, and Magnetic Amplitude.

RULE. If the Amplitudes be of one Kind, that is, both North, or both South, their Difference is the Variation.

But if the Amplitudes be of

North, the other South, their Sum is the Variation.

And in counting both Amplitudes from the North, Observe

that,

If the Magnetic Amplitude be to the Right of the True Amplitude, the Variation is West; but it to the Left, the Variation is East.

How the Sun's Amplitude is

found, see Sun.

But the Magnetical Amplitude is found, by Observing, with a Compass for that Purpose, on what Point thereof the Sun Rises, or Sets: And the Observation should be made when the Sun's under-Limb is about \(^2\) of his Diameter above the Horizon; because of the Refraction, and the Height of the Observer's Eye above the Surface of the Water.

2. To find the Variation of the Compass by the Sun's Azimuth, and the Magnetic Azimuth.

Rule. In counting both Azimuths, from the North in North Latitude, or South in South Latitude, and their Difference is the Variation.

And if the True Azimuth be to the Right of the Magnetic Azimuth, the Variation is East; But if to the Left, 'tis West.

The chief Use of Knowing the Variation at sea, is to Correct the Courses of Ships. For if the Variation of the Compass be not allow'd,

allow'd, all Reckonings must be Erroneous.

And if the Variation of the Compass, and Course Steer'd upon, be given; the True Course is found by this Rule:

If the Course and Variation
be of the same Kind, their
Sum is the True Course:
But if Different Kind, their
Difference is the True
Course.

And this Correction of the Course, is in no Case so necesfary, as in running on a Parallel East or West to hit a Port: For if being in your Latitude, at the Distance of 70 or 80 Leagues, you allow not the Variation, but Steer East or West by Compass, you shall fall to the Northward or Southward of your Port, on each fide 19 Leagues of Distance, one Mile for each Degree of Variation, which may produce very dangerous Errors, where the Variation is confiderable.

As for Instance; Having a good Observation in Latitude 49 deg. 40 min. about 80 Leagues without Scilly, and not considering that there is 8 deg. West Variation, I Steer away East by Compass for the Chanel; but making my Way truly East 8 deg. North, when I come up with Scilly, instead of being 3 or 4 Leagues to the South thereof, I shall find my self as much to the Northward: And

this Evil will be more, or less, according to the Distance you sail in the Parallel. And therefore, to keep your Parallel truly,

Tou must go so many Degrees to the Southward of the East, and Northward of the West, as is the West Variation: But contrariwise, so many Degrees to the Northward of the East, and Southward of the West, as there is East Variation.

VARIATION - CHART, Defign'd by Capt. Halley: The Projection thereof is according to Mercator's; and the Situation and Form of the Surface of the Terraqueous Globe, as to its Principal Parts, and the Dimensions of the several Oceans, are therein ascertain'd with the utmost Accuracy, as well from Astronomical Observations, as from Fournals. And the Curve-Lines drawn over the feveral Seas, flew the Degrees of the Variation of the Magnetical-Needle, or Sea-Compasso The Double Line paffing near Bermudas, the Cape Verde Isles, and St. Helena, every where Divides the East and West Variation in this Ocean; and that on the whole Coast of Europe and Africa the Variation Westerly, as on the more Northerly Coasts of America: but on the more Southerly Parts of America 'tis Easterly.

The Degrees of the Variation, or how much the Compass declines

from

from the True North on either Side, is reckon'd by the Number of the Lines on each Side of the Double Curve, which is called the Line of No Variation; and each Fifth and Tenth is diffinguish'd in its Stroak, and numbred accordingly: So that in what Place soever your Ship is, you find the Variation by Infpedion.

where the Variation is altogether Westerly, encreasing till you come to the Meridian of the East Part of Madagascar, (where 'tis of about two Points) and from thence it decreases, till you arrive on the East-Coast of China, or at the Philippine

Ifles.

which there is No Variation divides again the West from the East Variation, that in all probability is to be met with almost all over that Immence Ocean called the Southern-Sea, where the Curves of the Variation are wanting, for want of Accounts and Journals to ascertain them.

In this Chart, 'tis plain, that the Degrees of Westerly Variation, in the Mediterranean, are all mark'd and numbred from 5° at Milaga, to 12° at Cyprus. In the Baltic, from 8° to 10°. In the Red-Sea, from 12° to 16°. And in the Gulf of Persia, from 13° to 14°, all Westerly.

And at the Madera, the Va-

riation is 3° ½ West; at Barbadoes 5° ½ East; at Annobon 7° West; at Diego Roiz 19° West; at C. Raze in Newfoundland 14° West; at the Mouth of Rio de Plata 18° East; at Java-head

2° 1 West, &c.

So that this Chart, shewing the Variation of the Compass in any Place at Sight, which is unavoidably necessary for correcting the Ship's Course at Sea; Therefore, in a continued Cloudy Weather, or where the Mariner is not provided to observe this Variation duly, the Chart will readily shew him what Allowances he must make for this Default of the Compass, and thereby rectify his Journal. And befides you may also in many Cases estimate the Longitude at Sea; for where the Curves run near by North and South, and are thick together, as about C. Bonne Eperance, it gives a very good Indication of the Distance of the Land, to Ships come from far; for there the Variation alters a Degree to each two Degrees of Longitude nearly: But in the Western Ocean, between Europe and North America, the Curves lying nearly East and West, cannot be serviceable for this purpole.

Note, That there is a perpetual, tho' flow Change in the Variation almost every where; As that about C. Bonne Esperance the West Variation encreases at the rate of about a Degree in Nine Years. In the English

Channel,

Channel, it encreases a Degree directly before it, but between in Seven Years; but flower the nearer the Equinoctial Line, as on the Coast of Guinea, a Degree in a 11 or 12 Years. the America-Side, the West Varsation alters but little; and the East Variation on the Southern America decreases, the more Southerly the faster; the Line of no Variation, moving gradually towards it. In the Indian Seas, after you pals St. Lawrence, the West Variation is on the Decrease, the faster the more Westerly and Southerly; and is in a manner at a Stand, when you come to the Length of Fava. Therefore 'twill be necessary in time to alter the whole System from what it now stands in. Where this Chart is to be had, fee under the Word Chart.

VEER; As, Veer out a Rope! That is, let it go by hand, or let it run out of it felf.

VEER more Cable! That is, let more Cable run out.

VEER more Sheat! That is, let more of it out: And we don't use this Word for letting out of any Running Ropes, except the Sheat.

VEER, is also used in refe-

rence to the Wind : As,

The Wind Veers; that is, when it changes often, and fuddenly, or thitts from Point to Point.

VEERING, as, the Ship goes Veering; that is, the goes at large; neither by a Wind, nor

both; which is also called Quartering.

VICE-ADMIRAL. See Flag-

Officers.

VICTUALLING the Nawy: This Affair was formerly performed by Contractors, but is now under the Care of Commissioners, who keep their general Office on Tower-Hill and have not only their proper Agents at the several Victualing Ports in this Kingdom, but also their Correspondence abroad: And indeed it requires more than ordinary Care in supplying the Fleet with good and wholsome Provisions, the Want whereof subjects the Men to fo many Diftempers This Care ought to extend it felf as well to Quantity as Quality; for as nothing does more discourage a Sailor than his being wrong'd in the First, so is there not any thing subjects them to Difeases so much as a Defect in the Latter.

VIOL, a kind of Hawfer made use of to purchase in the Cable, when the Main Capitan cannot do it; because the Ground in which the Anchor is let fall, is too stiff, or else the Sea runs too high, fo that they cannot weigh it: In which Case they take a Hawser, opening one End of it, they put therein Nippers, of about 8 Fathoms from each other, wherewith they bind this Hawler fast to the Cable, and then bring ic

Kkk

chase far more than the Main-Capitan can.

7 AD-HOOK, is a Rod, or Wire of Iron, turn'd Spiral-wie; and its End is put upon a Handle or Staff, to draw out Wads or Oakum, in unleading a Piece of Ordnance.

WAFT; as, To Waft a Ship, is to Convoy her fale, as Men of War do by Merchant-Ships.

To make a Waft, is to hang out some Coat, Sea Gown, or the like, in the Main-Shrouds of the Ship, as a Sign for Men to come on Board, ogc. as fignifying oftentimes, that the Ship is in great Danger by a Leak, Ic. and therefore wants Help from the Shore, or some other Ship.

WAIL, the same with Wale.

WAKE of a ship, is the Smooth Water a-Stern, when the is under Sail: This thews. the Way she has gone in the Sea, whereby the Mariners judge what Way the makes. For it the Wake be right a Stern, they conclude the makes her Way forwards; But if the Wake be to Lee-ward a Point or two, then th y conclude the falls to the Lee-ward of her Course.

of her Wake; that is, when in Rope, sufficient for that Pur-

to the fear Capstan, to heave the does not fall to Lee-ward upon it; And this will pur- upon a Tack, but that when she is Tack'd, her Wake is to the Lee-ward; then 'tis a Sign that the feels her Helm very well, and is quick of Steerage.

WALE, or Wail, the fame

with Bends, which See.

Chain-WALE. See Chain. Gun-WALE, See Gun.

WALE or Waile-Knot. See Knot.

WALE, or Wail-Rear'd; when a Ship is built upright, after the comes to her Bearing, the is said to be Wale-Rear'd; the which tho' it be unfightly, and as the Sea-men term it, not Ship-Shapen; yet causes a Ship to be much more Roomy, (that is, larger) within Board, and withal, makes her a wholfome Ship in the Sea, especially, if her Bearing be well Lay'd out.

WALT; a Ship is Walt, when she has not her due Ballast, that is, not enough to enable her to bear her Sails, and

to keep her stiff

WAP, in a Ship, is that Rope wherewith the Shronds are let Taught with Wale-Knots; one End is made fast to the Shrouds, and to the other are brought the Lanniers.

WAR no more! is only to bid him at the Helm, to keep the Ship as near the Wind as

possible.

WARPING, is to Hale a Ship The Ship stags to the Weather up by a Hawser, or any other her staying the is so Quick, that pose, with an Anchor bent to it.

This

This is used, when a Wind is wanting to carry her into, or out of a Harbour.

WARP; so is the Hawser, or Rope us'd to hale the Ship up, call'd.

WAST-BOARDS, are Boards fometimes fet upon the Sides of a Boat, or other Vessel, to keep the Sea from breaking into her.

WAST-CLOTHS, are Cloths hung upon the uppermost Work of a Ship's Hull, to shadow the Men from an Enemy in a Fight; and therefore, by some, are call'd the Fights.

WASTE of a Ship, is that Part of her between the two Masts, that is, between the Main-Mast and Fore-Mast.

WAST-TREES. See Trees.

WATCH, at Sea, fignifies the Space of Four Hours; for Half the Ship's Company, or Crew, (when the is at Sea, ) Watch, and do Daty in their Turns, fo long a Time.

Also, a Ship's Company is is Divided into Two Parts, call'd the Larboard-Watch, and

the Starboard-Watch.

Quarter-WATCH; that is, when but a Quarter of the Ship's Company Watch at a time; as when they are in Harbour, having but little to do, or look after.

WATCH-GLASS, being Four Hours, is used at Sea, to Shift there. or Change their Watches.

There are also Half-Watch-Glasses; Minute, and Half-Minute-Glaffes; whereby they count the Knots, when they Heave the Log, in order to find the Ship's Way.

WATER-Born, is faid of a Ship, when she is where there's no more Water than will just

bear her from the Ground.

Dead-WATER, is the Eddy-Water that follows the Stern of a Ship, not passing away so fast as that which flides by her Sides.

WATER - Draught. See

Draught.

Eddy-WATER. See Eddy.

Foul-WATER; As, The Ship makes Foul-Water. See Foul.

High-WATER; that is, when the Tide is at the Highest.

WATER-Line, is that which distinguishes that Part of a Ship which is under Water, from that above, when she is duly Laden.

Low-WATER; that is, when the Tide is at the Liwest.

WATER-Shot, is a kind of Riding at Anchor, when the Ship is Moor'd neither Cross the Tide, nor Right up and down, but Quartering betwixt both.

WATER Way, in a Ship, is a small Piece of Timber lying fore and aft on her Deck, close by her Sides, to prevent the Water running down

To find the Time of High-Water, or Full-Sea, at any Place.

#### The RULE.

To the Moon's Southing, add the Point of the Compass making Full Sea (on Full and Change-Day) for the Place propos'd; and the Sum is the Time sought.

Note, The Point of the Compass making Full-Sea on the Full and Change-Day, is found in the Tide-Table, in the Seaman's Kalender, and other Books of Navigation.

The Time of the Moon's Southing, is found by this

#### RULE.

Multiply the Age of the Moon by 4, and Divide the Product by 5, the Quotient is Hours; and the Remainder is so many times 12 Minutes of an Hour, and both is her Southing sought.

The Moon's Age is found by this

#### RULE.

of the Epast Add the Day of the Month, and the Number of the Month; the Sum, if it exceeds not 30, is her Age: But if it es, Subtract 30 as oft as you can, and the Remainder is her Age.

The Numbers of the Months are these:

 fan.
 Feb.
 Mar.
 Apr.

 0
 2
 1
 2

 May
 June
 July
 Aug.

 3
 4
 5
 6

 Sept.
 O.H.
 Nov.
 Dec.

 8
 8
 10
 10

The Epact is found by this

#### RULE.

1. Divide the Golden Number by 3; and Note the Remainder.

2. Multiply that Remainder by 10, and Note the Product.

3. To that Product Add the Golden Number: The Sum (if it exceed not 30) is the Epast; but if it does, Subtract 30 from it, and the Remainder is the Epast sought.

The Golden Number is found by this

#### RULE.

Add 1 to the Year of Our Lord, and Divide the Sum by 19; the Remainder will be the Golden Number fought.

waves, are the Billows made by the Rolling of the Sea: Their Breadth is estimated to be the Distance between the top Edges of any two waves;

or a Right Line drawn from the Middle of one Trough or Hollow, to the Middle of the other.

And the Velocity of Waves, is always in a Subduplicate Ratio of their Breadth. Therefore, those Waves whose Breadth is  $3 \frac{1}{18}$  Parisian Feet, will pass over that Distance in a Second of Time; and consequently, in One Minute, will run 183 \frac{3}{4}. Feet; and in an Hour's Time, will have gone about 11000 such Feet.

WAY of a Ship: As, To keep an Account of the Ship's Way, is one of the most necessary Things in the Practice of Navigation; and the most-Approv'd Method of doing this, is by the Log and Log-Line; which see.

Lee-WAY, or Leeward-Way, is the Angle made by the Point Steer'd upon, and the Way of the Ship. And fince most Ships are apt to fall a little to Leeward of their Course, 'tis necessary, at all time, in Casting up the Log-Board, to Allow something for the Lee Way. As,

- 1. If the Ship be upon a Wind, allow One Point for Iee-Way.
- 2. If the Wind blow hard, and cause one Top-sail to be taken in, allow Two Points for Lee-Way.

3. If the Wind blow so hard, that both Top-sails are taken in, and the Sea run high; allow Three Points for Lee-Way.

4. If the Fore-sail be Furl'd, and she Try under a Main-sail and Misen; she'll make her Way Four Points before the Beam.

5. If the Try under a Minfail only, the will make her Way near Three Points before the Beam.

6. But if the Try under a Misen only, she'll make her Way about Two Points before the Beam.

7. If she lie a-Hull, with all her Sails Furl'd; she will make her Way One Point before the Bean.

As may be seen more at large, in Mr. Jones's Compendium of Navigation.

WAY Aftward on, or Forward on; toat is, the Rake or Run of a Ship: Which see.

WEATHER: As, To Weather a Point; that is, to fail by it with a Fair Wind.

is, to go to Windward of her.

WEATHER-Coyle or Quoil; that is, when a Ship has her Head brought about, so as to lie that way, which her Stern did before, without loofing of

Kkk3 any

any Sail, but only by bearing up the Helm.

WEATHER-Gage. See Gage. To WEIGH Anchor. See An-

chor.

WENDING, fignifies, bringing the Sh p's Head about; and feems to be the same as Winding.

How Wends the Ship? the same

with, How Winds the Ship?

WEST, is one of the Four Cardinal-Points of the World: And is that Point of the Horizon where the Sun is feen to Set, when 'tis in the EquimoEtial.

WESTERN-Amplitude, is an Arc of the Horizon intercepted between the Point of the Sun's Rifing, and the West-Point of

the Horizon.

WESTERN-Hemisphere. See Hemisphere.

WESTING. See Departure.

WHELP of the Capstan. See

Capitan.

WHERREYS, are Small Boats employ'd in Rivers; they are too weak and tender for any

Service at Sea.

WHIP, or Whir-Staff, is a Piece of Timber like a ftrong Staff, fasten'd into the Helm, for him that Steers, in small Ships, to hold in his Hand, thereby to move the Helm, and Steer the Ship: It goes thro' the Rowle, and is made fast to the Tiller with a Ring.

WHIRLWIND, a fort of Wind that turns round, and blows

divers Ways at once.

WHOLSOM Ship; that is, a Ship that will Try, Hull, and Ride well, without Rolling or Labouring in the Sea. A Long Ship that draws much Water, may Try, Hull, and Ride well; But if she draw's little Water, the may Try and Ride well, yet never Hull well: And a Short Ship, that draws much Wat r, may Hull well, but neither Ride nor Try well; and fuch is call'd an Unwholfom Ship.

WHOODINGS, are those. Planks which are join'd and made fast along the Ship's Side

into the Stern.

WIND, is defin'd to be the Stream, or Current of the Air; which blows from fome One of the Two and Thirty Points of the Horizon, or Compass: Hence they are call'd the Two and Thirty Winds; and therefore the Four Cardinal-Points, North, South, East, and West, are call'd Cardinal-Winds.

WINDLASS, is an Instrument, in small Snips, placed upon the Deck, just abaft the Fore Mast. 'Tis made of a Piece of Timber having Six or Eight Squares, and is in the Form of an Axle-Tree, whole Length is placed Horizontally upon Two Pieces of Wood at the Ends thereof, and upon which it's turn'd about by the Help of Handspikes, put into Holes made for that Purpole : This

量 11

MARKET TO LEGIS

Weighing of Anchors, or Hoifing of any Weight in or out of the Ship; and will Purchase much more than any Capstan, and that without any Danger to those that Heave: For if in heaving the Windspikes should happen to break, yet the Windlass would paul of it felf.

Trade-WINDS; the General Trade Winds, are those which blow perpetually from the East, between the Latitudes of 30 Degrees North and South, in the Atlantic, Ethiopic, and Pacific Oceans; But that to the Northward of the Equator, inclines to the Northward of the East; and that to the Southward of the Equator, to the · Southward of the East:

Which is thus Accounted for by Mr. Halley, from the Lans of Statics: The Air which is less Rarified or Expanded by Heat, and consequently, more Ponderous, must have a Motion towards those Parts th reof, which are more Rarified and less Ponderous, to bring it to an Aquilibrium: And the Presence of the Sun continually shifting to the Westward, that Part towards which the Air tends, by reason of the Rarification made by his greatest Meridian Heat, is with him carried Westward, and consequently the Tendency of the whole Body of

This Instrument, serves for the Lower Air is that way. Thus a general Easterly Wind is form'd. which being impres'd upon all the Air of a Vast Ocean, the Parts impel one the other, and fo keep moving till the next Return of the Sun; whereby fo much of the Motion as was lass about, any of the Han-lost, is again restor'd: Thus the Eafterly Wind is made person

petual.

And fince near the Line, the Air is much more Rarified, than at a greater Distance from it; because the Sun is twice in a Year Vertical there, and at no time distant above 23 Degrees and a half; at which Distance the Heat, being as the Sine of the Angle of Incidence, is but little fhort of that of the Perpendicular Ray. Whereas, under the Tropics, tho' the Sun flay long Vertical, yet he is as long 47 Degrees off; which is a kind of Winter, wherein the Air fo Cools, as that the Summer-Heat cannot warm it to the same Degree with that under the Equator. Wherefore the Air to the Northwards and Southwards, being less Rarified than that in the Middle, it follows, that from both Sides it ought to tend towards the Equator: This Motion compounded with the former Eafferly Wind, answers all the Phanomena of the General Trade-Winds; which, if the whole Surface of the Globe were Sea, would undoubtedly bow all round the World, as they are found to Kkk 4 do do in the Atlantic and Ethopic Oceans.

coasting-trade-winds, are such as the Southerly and South-Westerly Winds, which blow perpetually all along the Coast of Africa on the Southward of the Equator within the Trade-Wind Limits: and the Northerly and North-Westerly Winds on the North Side of the Equator, blowing on the same Contitioent.

SHIFTING-TRADE-WINDS, the same with Monsoons; which See.

Note, That from the Original View of these Winds given by Mr. Halley; they have bin lately represented on a Large and Correct Mercator's Chart of the World; as also on a New Terrestrial-Globe, both being carefully done by Char. Price, and Fer. Sellers, Hydrographers, at the Hermitage-Stairs.

that is, to being the Ship, or Boat; Boat's Head about.

How WINDS Ship? that is, Upon what Point of the Compals does the lie with her Head.

To WIND up; that is when the Ship comes to Ride at an Anchor.

Eddy-WIND. See Eddy.

Side-Wind, is that which blows Sideward.

WINDWARD of Ship; that is, to the Wind of a Ship.

To have the WIND of a Ship; that is, to be to Windward of her.

WINDWARD-Tide. See Tide.

Large-WIND: As, to Sail with a Large Wind; that is, with a Fair Wind.

Quarter-WIND. See Quarter.
Touch the WIND. See Touch.
WIND-Taught: As, too much
Rigging, and high Masts, Gc.
is said to hold the Ship Windtaught, and this makes her stoop
too much in her Sailing in a
Stiff Gale of Wind.

And when a Ship Rides in in any Main-Stress of Wind and Weather, the Yards are brought alongst Ship, and the Top-Masts are struck down, which else would hold much Wind, or be Wind-Taught.

WINDING-Tackle. See Tackle.

To Ride WIND-Road. See Ride.

The WIND Veers. See Veers.

WOOD and WOOD; that is faid, when Two Pieces of Timber; being so let into each other, that the Wood of the one joins close to the other. See Scarfed.

WORKING-PART of Naviga-

tion. See Navigation.

WORMING, is laying a small Line or Rope all along betwike the Strouds of any Cable or Hawser, in order to strengthen or succour it-

To WOULD, or to Bind; as to would a Mast, or Tard; is the winding of Ropes fast about a Mast, or Yard that is fish'd, in order to make it hold the better.

WRACK, Ship-wrack, is a Sea-Term, when a Ship either splits or finks; and those that escape, are said to have suffer'd

Shipwrack.

WRIGHT's, or Mercator's Sailing, 15 the Method of finding on a Plane, the Place of a Ship upon any affign'd Course, true in Longitude, Latitude, and Distance; the Meridians being supposed Parallel, and the Parallels of Latitude strait Lines.

#### CASE I.

Given, the Latitude and Longitude of two Places;

Required? Course, Distance,

and Departure.

1. To find the Course, fay,

As the Meridional Difference Longitude, and Departure. of Latitude,

To the Radius:

So is the Difference of Longi-

To the Tangent of the Courfe.

2. Find the Distance and Departure by Case 3. of Plain-Sailing.

#### CASE 2.

Given, the Latitudes and Course;

Required? Difference of Longitude, Distance, and Departure.

1. To find the Difference of Longitude, say,

As the Radius,

To Meridional Difference of Latitude:

So is the Tangent of the Courfe,

To the Difference of Longitude.

2. Find the Distance and Departure by Case 3. of Plain Sailing.

#### CASE 3.

Given, the Latitudes and Di-Stance;

Required? Course, Difference of

- 1. Find the Course and Departure of Case 5. of Plain Sailing.
- 2. Find the Difference of Longitude, by Case 2. of this: Or by faying,

As the Difference of Latitude.

To the Departure :

So is the Meridional Difference of Latitude, To the Tangent of the Course.

#### CASE 4.

Given, Latitudes and Departure. Requir'd? Difference of Longirude, Course, and Distance.

r. Find the Difference of Longinde, by Case 3. of this.

2. Find Course and Distance, by Case 6. of Plain-Sailing.

#### CASE 5.

Given, One Latitude, Course,

and Distance.

Requir'd? Difference of Latisude, and Difference of Longitude.

1. Find the Difference of Latisude, by Case 1. of Plain-Sailing.

2. Find the Difference of Longisude, by Case 2. of this.

#### CASE 6.

Given, One Latitude, Course,

and Departure.

Requir d? Distance, Difference of Latitude, and Difference of Longitude.

1. Find the Distance and Difference of Latitude, by Case 2. of Plain-Sailing.

Longitude, fay,

As the Difference of Latitude, To Meridional Difference of Latitude, So is the Departure, To the Difference of Longitude.

#### CASE 7.

Given, One Latitude, Distance,

and Departure.

Requir'd? Course, Difference of Latitude, and Difference of Longitude.

1. Find the Course and Difference of Latitude, by Case 4. of Plain-Sailing.

2. Find the Difference of Longitude, by Case 2. or 6. of this.

#### CASE 8.

Given, One Latitude, Courfe, and Difference of Longitude.

Requir'd ? Difference of Latitude, Distance, and Departure.

1. To find the Difference of Latitude, Say,

As the Radius

To the Difference of Longi-

tude:

So is the Co-Tangent of the Courie,

To the Meridional Difference of Latitude.

2. Find the Distance and De-2. To find the Difference of parture, by Case 3. of Plain-Sailing.

YBRDS

#### Y

YARDS of a ship, are those long Pieces of Timber which are made a little Tapering at each End, and are fitted each a-thwart its proper Mast, with the Sails made fast to them; so as to be Hois'd up, or Lower'd down, as Occasion serves. They have their Names from the Masts unto which they belong.

As for the Length of the Min Tard, 'tis usually \( \frac{1}{6} \) of the Length of the Keel, or \( \frac{6}{2} \) of the Length of the Main-

Mast.

Their Toickness is commonly
3 of an Inch for every Yard

in Length.

The Length of the Main-Top-Tard is  $\frac{2}{5}$  of the Main-Tard: And the Length of the Fore-Tard, according to some, is  $\frac{4}{5}$  of the Main-Tard; but by others,  $\frac{1}{5}$  thereof.

The Spritfail-Tard, and Cross-Fack-Yard, are of the same Length; that is to say, \(\frac{1}{2}\) the

Misen-Yard.

And the Toi kness of the Misen-Tard and Spritsail-Tard is 1 an Inch for every Yard in Length.

All Small Tards are Half the Great Tards from Clear to

Cleas.

When a Tard is down a Portelast, it gives the Length of all Topsail-Sheats, Lists, Ties, and Bunt-Lines; as also, of the Leech-Lines and Halliards, measuring from the Hounds to the Deck: And when it is Hois'd, it gives the Length of Clew-Lines, Clew-Garnets, Braces, Tackles, Sheats, and Bow-Lines.

and Bow-Lines,

And if all Ships were Built after one and the same Mould = and all their Masts, Tards, Cables, Cordage and Sails, were of like Goodness, a Methodical Rule of their Proportion might be given : But fince their Length, Breadth, Depths, Rakes and Burthens are lo variable and different; it is hardly polfible to give any certain Rules, which may be taken as Standard: Tho', in Time, we may expect more Regularity in the Method of Building Ships, that is, when the Theory thereof is better known and minded.

YARD-ARM, is that half of the Tard that is on either fide of the Mast, when they lie a-thwart the Ship.

Brace the Yard! That is, Traverse aft the Yard-Arm, whose

Brace is haled.

Square the Tards! That is, See that they hang right a-cross the Ship, and one Tard-Am not Travers'd more than another.

Make the Yards! That is, Make the Yards stand Even: For to Top the Main and Fore-Yards, the Clew-Lines are the most most proper; but when the making short Trips. They gethe Top-sail-Sheats will Top them.

YARE: As, Be Tare at the Helm! That is, Be Quick, Ready, and Expeditious at the Helm.

YARE, is sometimes used by Seamen for Bright: As, To keep . use the least Motion with the his Arms Yare; that is, to keep

them Clean, and Bright.

YARN, as Rope-Tarn; by this is meant the Tarn of any Rope un-Cables-Ends which are worn out. It's Ule is, to serve small Ropes, to make Sinners, Mats, Plats, and Caburns. It ferves also to fasten the Sails to the Yard-Arms, with feveral other Uses.

... Spun-YARN, is nothing but Rope-Yarn made small at the Ends, and so spun one to another with a Winch, as long as

One would have it.

YATCHES, are One-Deck'd Veffels, carrying Four, Eight, or Twelve Guns; with Thirty or 40 Men; and from Thirty, to an Hundred and fixty Tuns : They have the Gun-Deck from Thirty to Sixty three Feet Long, and from Thirteen to Twentyone Feet Broad. They Draw little Water; and are Excellent for running of small Boards,

Top-fails are Srow'd, then nerally serve for carrying of

Persons of Quality, &c.

YAWS: As, The Ship makes Tams; that is, does not Steer fteady, but goes in and out when there is a stiff Gale. And he that keeps the Ship most from Tawing, does commonly Helm, and those Steer best.

YOKE, Sea-Yoke: When the Sea is fo Rough, that the Men cannot govern the Helm with twisted: 'Tis usually made of their Hands, then they seize two Blocks to the End of the Helm, one on each fide, and reeving two small Ropes thro' them, which they call Falls, and which are made fast to the Sides of the Ship: By having some Men at each Tackle, they govern the Helm according to Direction: This they call a Toke to Steer by.

> And fometimes, Seamen make a Toke, by taking a double Turn about the End of the Helm by a fingle Rope, the Ends being laid to the Ship's Sides; and by this means they guide the

YOUNKERS, are those Young-Men on-board a Slip, that Take in the Top-sails, and are for Furling the Sails, Slinging the Yards, Bowling, Tricing, Oc.

Z

ENITH, is the Point in I the Heavens, right-over One's Head; or is the Upper Pole of the Horizon; and therefore is 90 Degrees every way

distant from it.

ZENITH-Distance, is the Complement of the Sun or Star's Meridian Altitude; that is, what the Meridian Altitude wants of 90 Degrees.

ZONE: The Surface of the Terraqueous Globe, was by the Ancients divided into Five Zones; that is to fay, One Torrid or Burning Zone, Two Temperate, and Two Frigid or Frozen Zones.

Torrid or Burning ZONE, contains all that Space that lies between the Two Tropics.

Temperate ZONES, are, one on the South fide of the Equator, between the Anarctic Circle and the Tropic of Capricorn; the . other on the North fide of the Equator, between the Artic Circle and the Tropic of Cancer.

Frozen ZONES, are comprehended between the Polar Circles and the Pole : And therefore

the

Northern Frozen ZONE, lying between the Arstic Circle, or the Parallel of 67 deg. 30 min. North Latitude, and the Ardie Pole, contains Nova-Zembla, and Part of Greenland, Samojeda, Finmark, Lapland, Normay, Island, and fome Parts of North-America.

Southern Frozen ZONE, lying between the Antar Hic Circle and the Aniardic or South Pole, is not yet known whether it contains Land or Sea.

## FINIS.

## PROPOSALS

## For Printing

A Compleat HISTORY of ENGLAND, from the Earliest Account of Time, to the Death of His Late Majesty King WILLIAM the Third: Containing a Faithful Relation of all Affairs of State, Ecclesiastical and Civil; with the Effigies of all the Kings and Queens, taken from the Orginals, and Cariously Engrav'd by the best Masters.

ANY have been the Attempts, by Great Men, to make a Compleat History of the Lives of the Kings of England; but they have all been Disappointed, either by unavoidable Avocations, Sickness, Death, or many times want of Resolution, being Discourag'd with the Prospect of so vast a Work; even the Learned Mr. Camden confesses the Task too weighty, and so confin'd hinself to the History of Queen Elizabeth, which Reign alone cost him Sixteen Years Labour, tho' he had all the Materials before him, and was an Eye-witness of most Transactions. There being little hopes therefore ever to see a Design of this Nature compleated by One Man, we have taken another Method, which is, by uniting the Labours of Several, who being Men of great Reputation, and living in or near the Times of those Princes whose Reigns they writ, had better Opportunities of throughly informing themfelves. This is the Way which Sir William Temple, and several other Learned Men, approv'd and recommended, and which has been above Seven Years Carrying on with great Application, and is now Ready for the Press.

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- IV. The Reign of K. Edward the IVth, is excellently well writ by Mr. Habington.
- V. The Lives of K. Edward the Vth, and K. Richard the III. by Sir Thomas Moore; and that also of the last by Mr. Buck, have met with a general Esteem, answerable to the Characters of the Authors.
- VI. The Reign of K. Henry the VIIth. by the Lord Bacon; as also the Annals of the said King, writ by Sir Ja. Ware (chiefly relating to Ireland, and which he publish'd to supply some Defects in the Lord Bacon's History) we have translated, keeping each Author by himself.
  - VII. The Reign of K. Henry the VIIIth. by the Lord Herbert.
- VIII. The Reign of King Edward the VIth, and Queen Mary, by Bishop Godwin, Sir John Heyward, and Others.
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