

Anæsthetics antient and modern : an historical sketch of anæsthesia.

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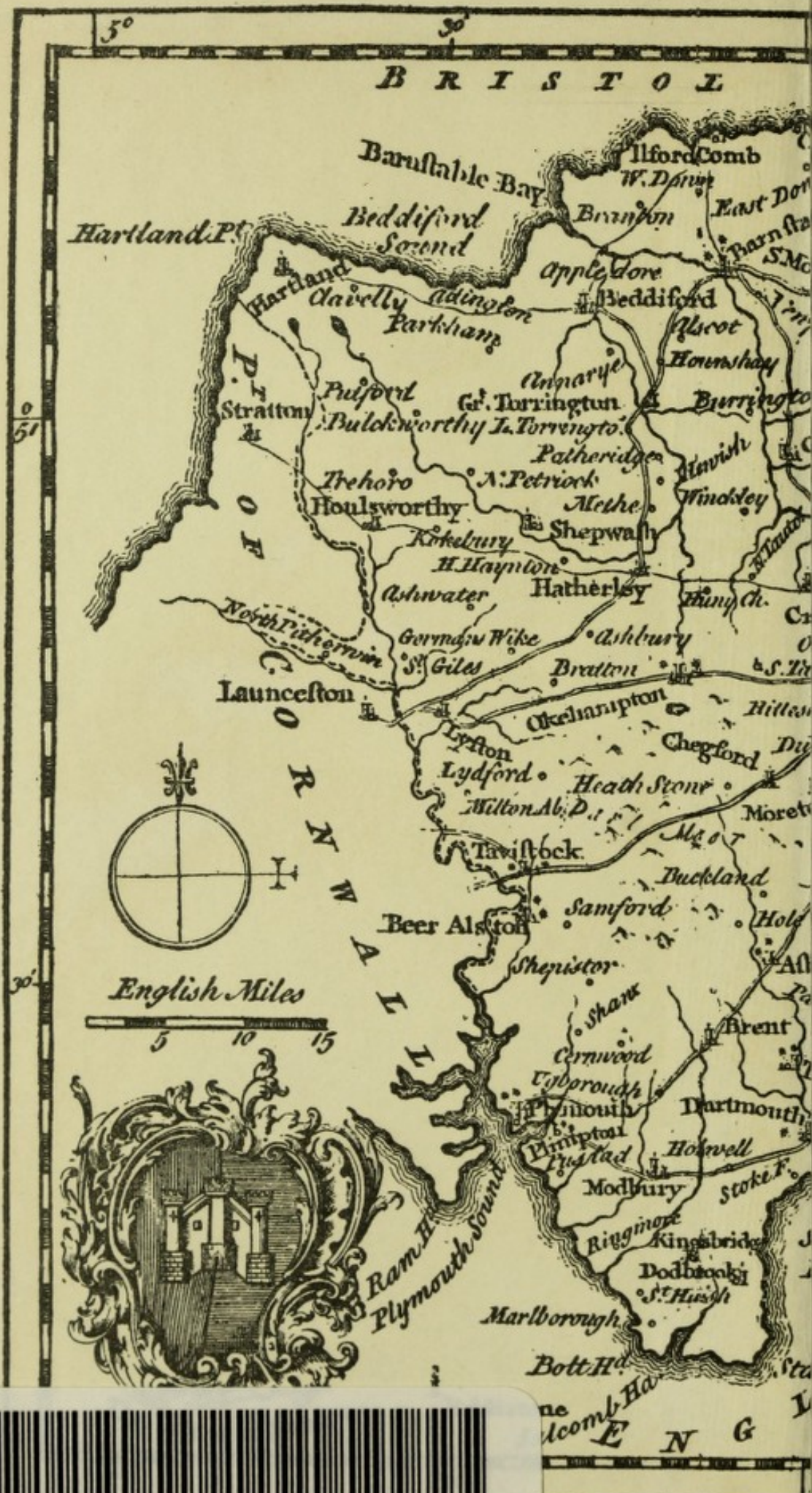
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ANÆSTHETICS
ANTIENT AND MODERN

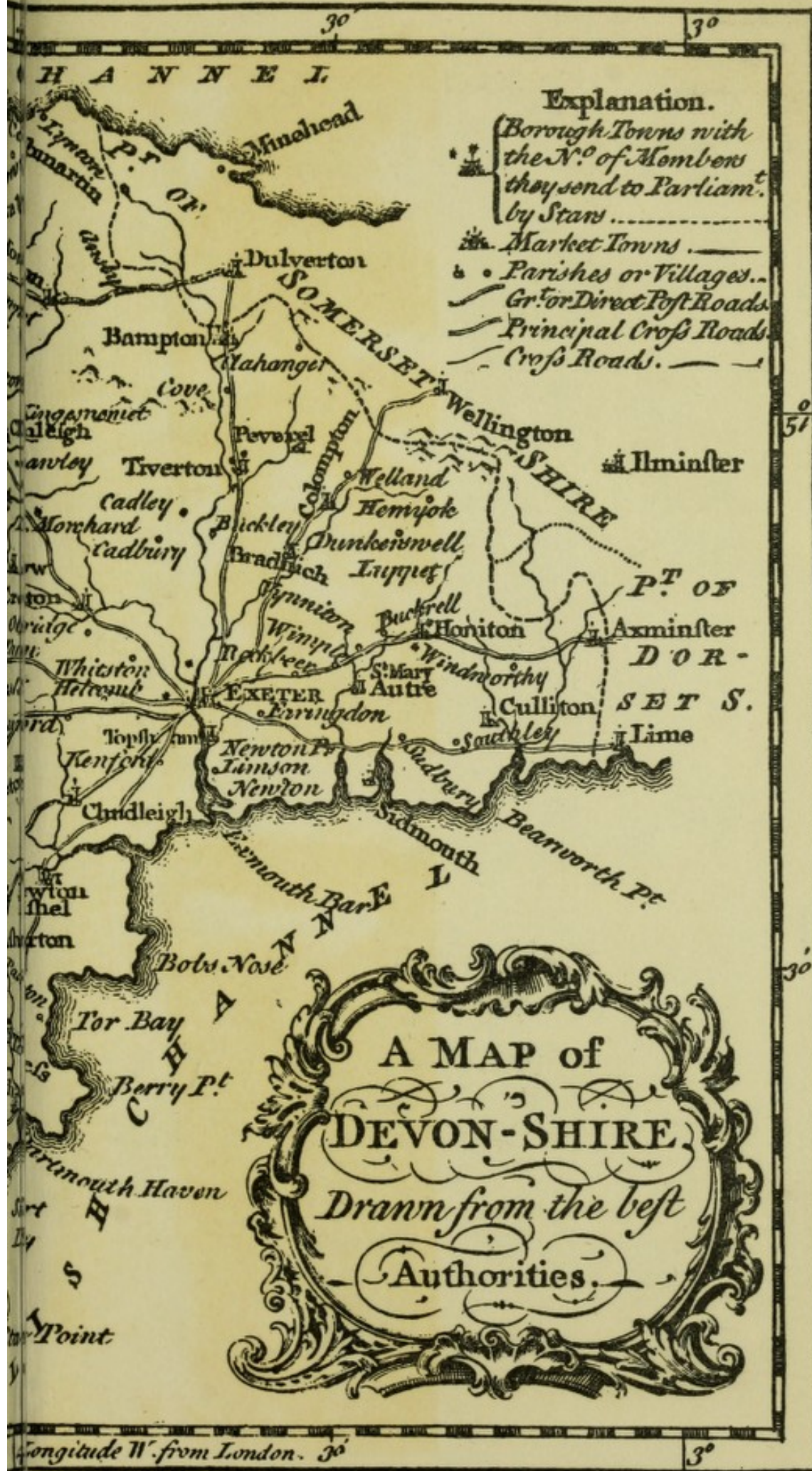


LECTURE MEMORANDA
B.M.A. MEETING
EXETER
1907

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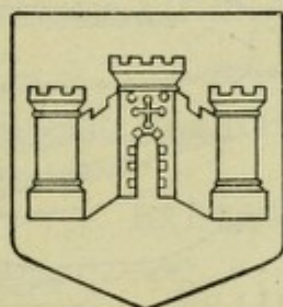
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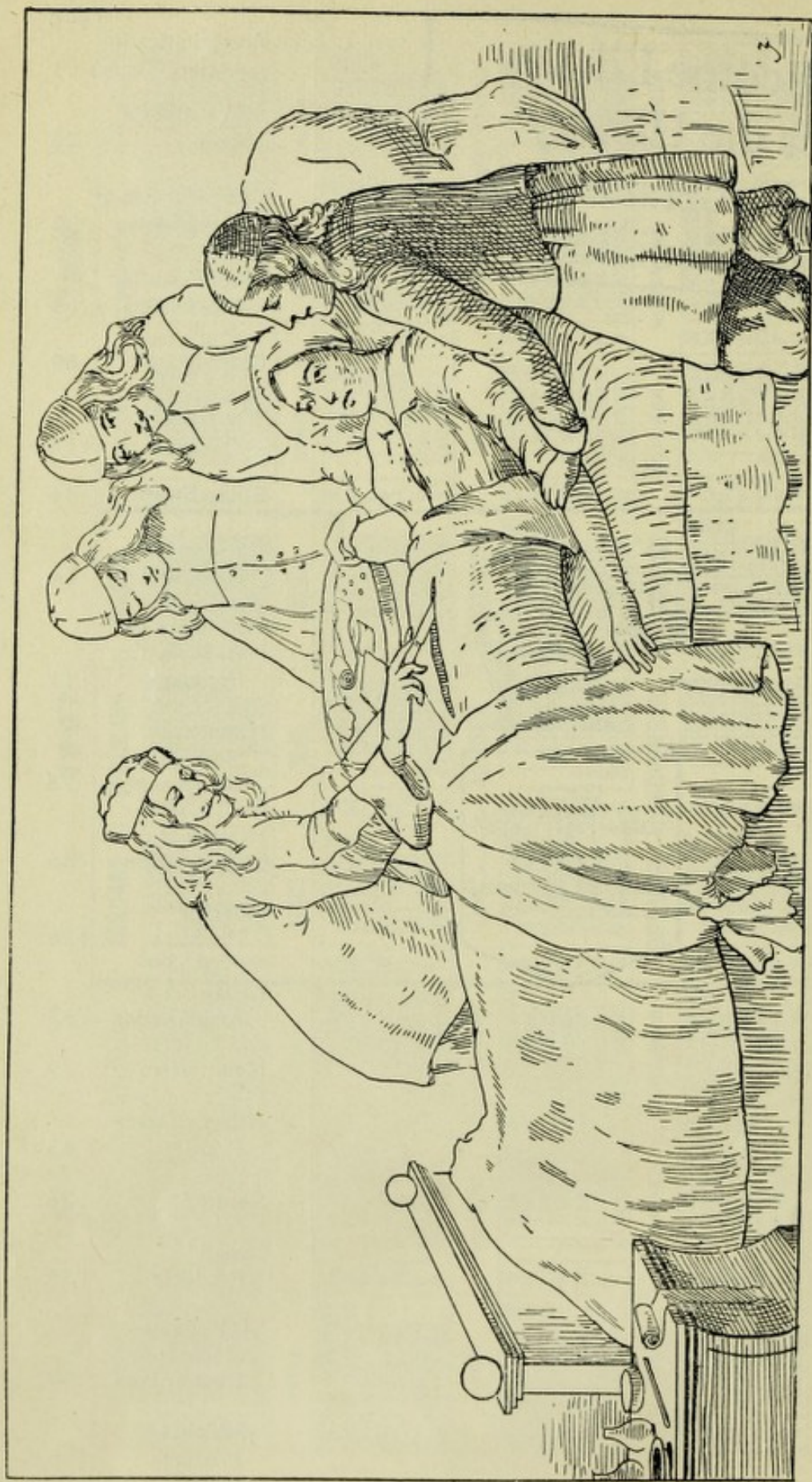
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A SURGEON PERFORMING AN OPERATION

From a woodcut of the XVII century

ANÆSTHETICS
ANTIENT AND MODERN
AN HISTORICAL SKETCH OF ANÆSTHESIA

LECTURE MEMORANDA
Seventy-Fifth Annual Meeting
of the
British Medical Association

EXETER, 1907

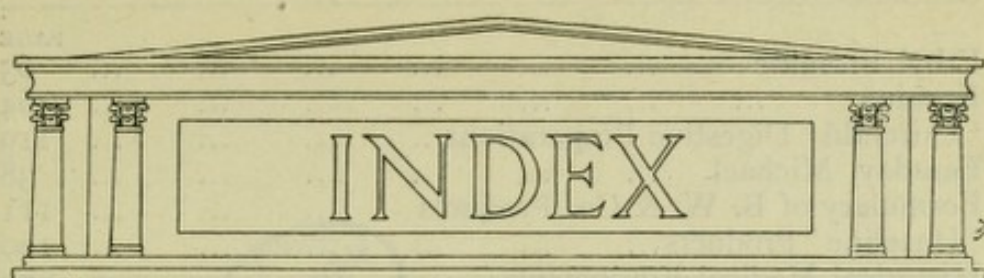
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AN OPERATION ON THE EYE
From an MS. of the XIII century



Comment adam et eue furent crees au
ij. et au. iij. c. de geneſis



From a woodcut of the XV century

"And the Lord God caused a deep sleep to fall upon Adam, and he slept: and He took one of his ribs, and closed up the flesh instead thereof."

Genesis, chap. ii, verse 21

ANÆSTHETICS, ANTIENT AND MODERN

AN HISTORICAL SKETCH OF ANÆSTHESIA

“ So God empal'd our Grandsire's (Adam's) lively look,
Through all his bones a deadly chilness strook,
Siel'd up his sparkling eyes with Iron bands,
Led down his feet (almost) to Lethe's sands ;
In briefe so numm'd his Soule's and Bodie's sense,
That (without pain) opening his side from thence
He took a rib, which rarely He refin'd,
And thereof made the mother of Mankind.”

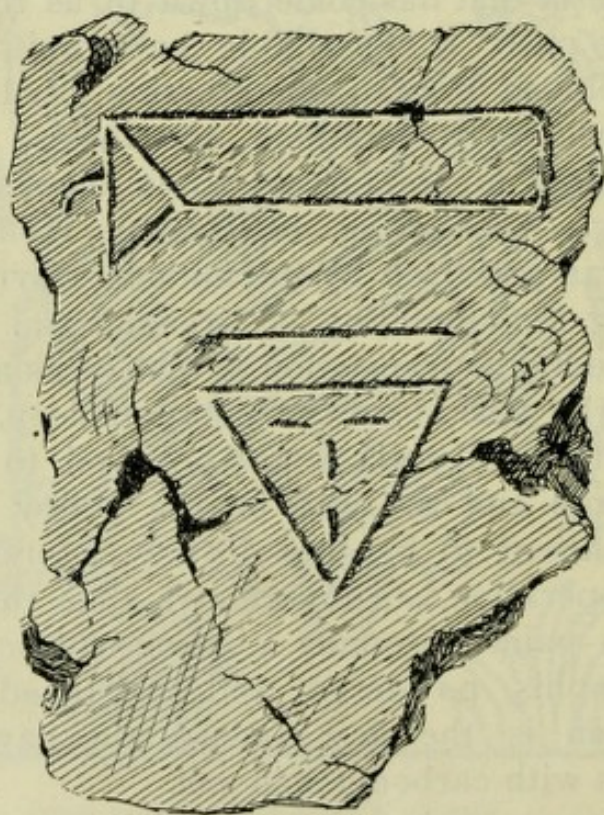
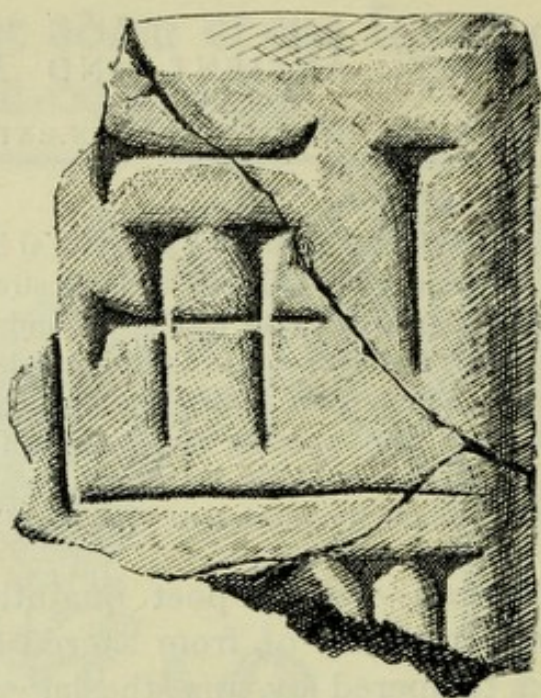
Thus a sixteenth century poet quaintly describes and draws an impression of, from sacred records, the first operation tempered by anæsthesia. It has been claimed that in the “deep sleep” that the Creator “caused to fall upon Adam” is the germ of the idea of anæsthesia that has come down to us from the dim ages of the past. It is probable that primitive man employed digital compression of the carotid arteries to produce anæsthesia, as the aboriginal inhabitants of some countries do to-day. According to Caspar Hoffmann, this method was practised by the antient Assyrians before performing the operation of circumcision. Curiously enough the literal translation of the Greek and Russian terms for the carotid is “the artery of sleep.”

The antient Egyptians are believed to have used Indian hemp and the juice of the poppy to cause a patient to become drowsy before a surgical operation. Pliny relates that they applied to painful wounds a species of rock brought from Memphis, powdered, and moistened with sour wine, which is the first record we have of local anæsthesia with carbonic acid gas.

The “sorrow-easing drug” which, as we are told in the fourth book of the “Odyssey,” was given by Helen to Ulysses and his comrades, probably consisted of poppy juice and Indian hemp. It is indeed

The
Dawn of
Anæsthesia

Early
Egyptian
anæsthetics



MANDRAGORA (*the Phallus of the Field*)
Inscribed in cuneiform characters and in Egyptian hieroglyphics
ca. 3000 B.C

actually stated that she learned the composition from Polydamnia, the wife of Thone, in Egypt. It is possible also that the "wine of the condemned," mentioned by the prophet Amos, may have been a preparation of these drugs.

The "Wine of the Condemned"

There are several passages in the Talmud which point to the fact that the practice of easing the pain of torture and death, by stupefying the sufferers, was a very antient one.

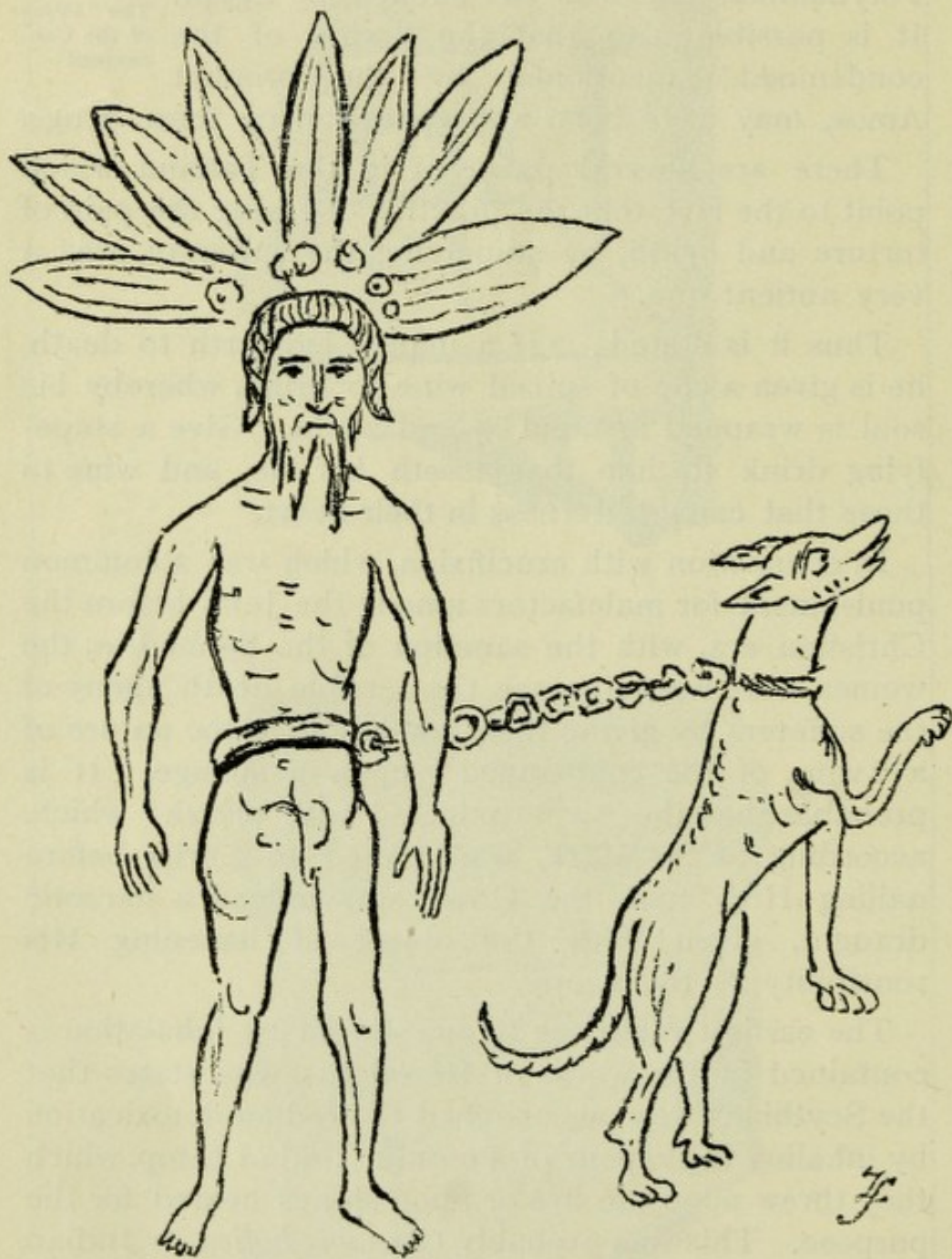
Thus it is stated: "If a man is led forth to death, he is given a cup of spiced wine to drink, whereby his soul is wrapped in night"; and again, "Give a stupefying drink to him that loseth his life, and wine to those that carry bitterness in their heart."

In connection with crucifixion, which was a common punishment for malefactors among the Jews before the Christian era, with the sanction of the Sanhedrin, the women were wont to ease the terrible death agony of the sufferers by giving them something in the nature of a "wine of the condemned" upon a sponge. It is probable that the "wine mingled with myrrh" which, according to St. Mark, was offered to Christ before nailing Him upon the Cross, was indeed a narcotic draught, given with the object of lessening His sensibility to the agony.

The earliest reference to anæsthesia by inhalation is contained in the works of Herodotus, who states that the Scythians were accustomed to produce intoxication by inhaling the vapour of a certain kind of hemp, which they threw upon the fire or upon stones heated for the purpose. This was probably *Cannabis indica*, or Indian hemp, which was employed by Oriental races as an anæsthetic from very early times.

At the siege of Troy the Greek army surgeons employed anodyne and astringent poultices to assuage the pain of the wounded. Thus Patroclus, when his dagger from the thigh of Euryphylus—

Anodyne poultices to deaden pain



GATHERING MANDRAGORA
From an MS. of the XII century

Cut out the biting shaft ; and from the wound
 With tepid water cleansed the clotted blood ;
 Then, pounded in his hands, the root applied
 Astringent, anodyne, which all his pain
 Allay'd ; the wound was dried, and stanch'd the blood.

Iliad.

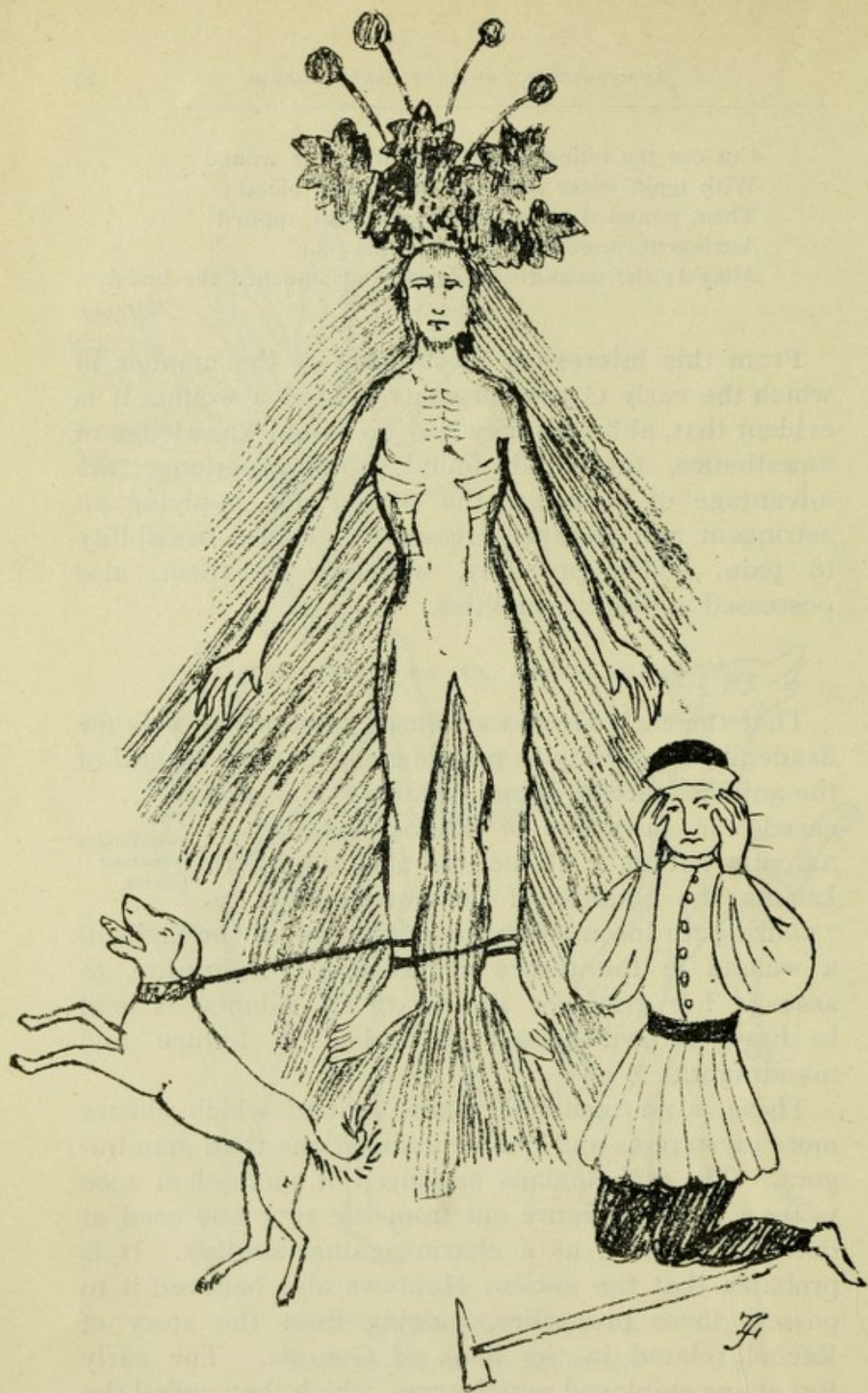
From this interesting description of the manner in which the early Greek surgeons treated a wound, it is evident that, although they had no actual knowledge of anæsthetics, they had found from experience the advantage of cleansing the wound and applying an astringent and anodyne dressing to deaden sensibility to pain, which probably, unknown to them, also possessed antiseptic qualities.

MANDRAGORA AS AN ANÆSTHETIC

That the early Greeks also used certain methods for deadening sensibility to pain is evidenced by several of the antient writers. Pindar states "Machaon eased the sufferings of Philoctetes with a narcotic potion." Theocritus also alludes to Lucina, the goddess of the obstetric art, as "pouring an insensibility to pain down all the limbs of a woman in the throes of labour." Aphrodite, to assuage her grief for the death of Adonis, is said to have thrown herself on a bed of lettuce and mandragora.

The
 anæsthetics
 of antient
 Greece

There is no medicinal plant around which cluster more mysterious and quaint associations than mandragora. The Babylonians employed it more than 2000 years B.C., and a figure cut from the root was used at that early period as a charm against sterility. It is probable that the antient Hebrews also believed it to possess these properties, judging from the story of Rachel related in the book of Genesis. The early Egyptians employed mandragora, which they called the "phallus of the field," as a medicinal agent, both as an anodyne and an anæsthetic, and also used it in many of their superstitious rites.



GATHERING MANDRAGORA

From an MS. of the XIII century

"To gather ye mandragora, go forthe at dead of nyght and take a dogge or other animal and tye hym wyth a corde unto ye plante. Loose ye earth round about ye roote, then leave hym, for in hys struggles to free hymself he wyll teare up ye roote, which by its dreadfull cryes wyll kyll ye animal."

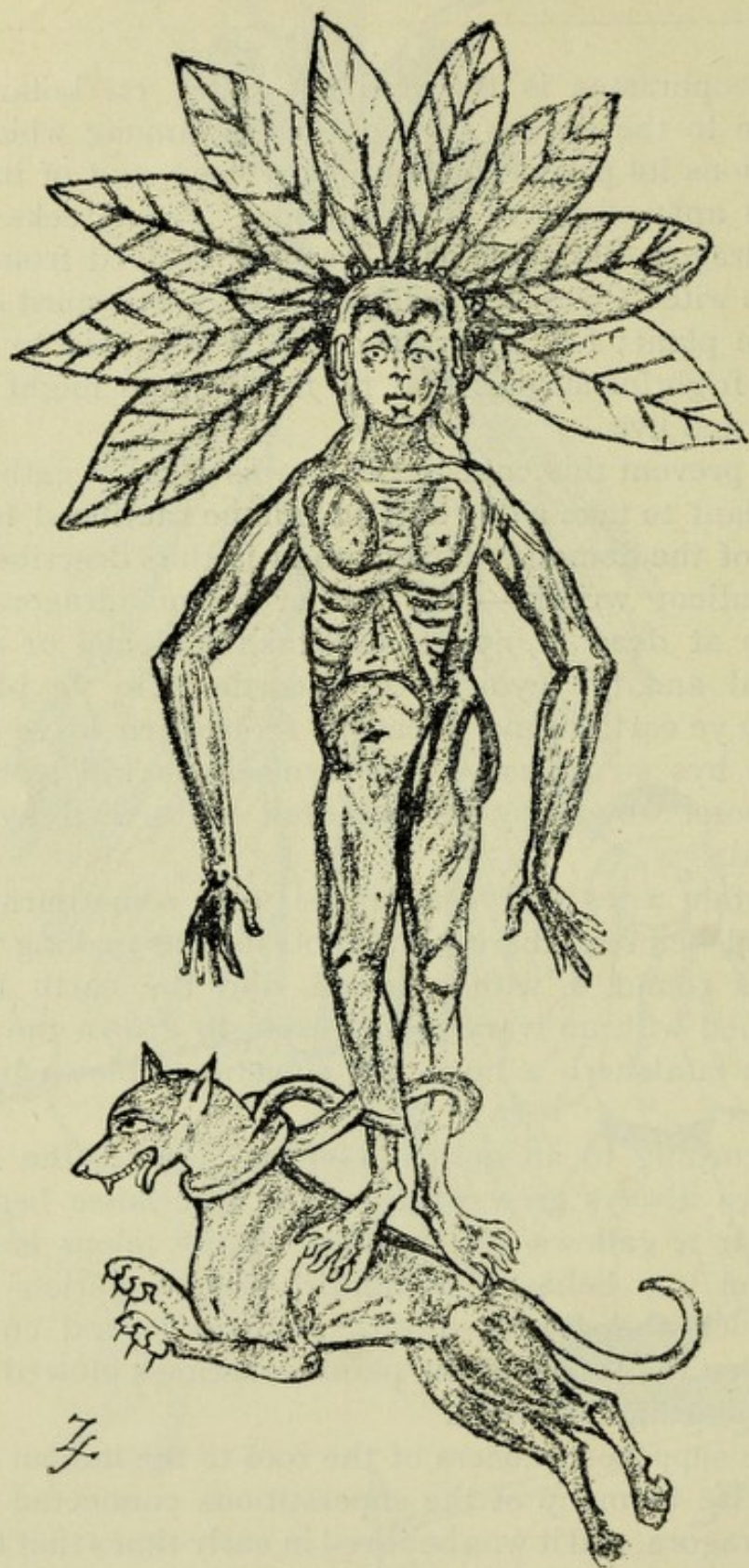
Theophrastus is the earliest writer on botany to allude to the virtues of mandragora, among which he mentions its property of inducing sleep, and of its use as an aphrodisiac in love potions. The Greeks gave mandragora the name of "Circeum," derived from that of the witch Circe, and believed that an evil spirit dwelt in the plant; for, when uprooted, it was said to utter such frightful shrieks that no mortal man might hear them and live.

To prevent this catastrophe, it was usual in gathering the plant to take a dog and let him be sacrificed to the rage of the demon. This method is thus described by an antient writer:—"To gather ye mandragora, go forthe at dead of nyght and take a dogge or other animal and tye hym wyth a corde unto ye plante. Loose ye earth round about ye roote, then leave hym, for in hys struggles to free hymself he will teare up ye roote, whych by its dreadfull cryes wyll kyll ye animal."

Certain rites and ceremonies were sometimes performed before gathering the root, such as making three circles round it with a sword, and the earth being loosened with an ivory spade, while to drown the cries of the fatal herb a horn was sometimes blown by the gatherer.

According to an antient German legend, the mandragora always grew with greater luxuriance beneath or near a gallows, for the flesh of the felons hanged thereon was believed to nourish the mysterious root in which the demon dwelt. Another legend current was, that the leaves of the plant sometimes glowed with a peculiar light at night.

The supposed likeness of the root to the human form gave rise to many of the superstitions connected with mandragora, and it was believed in early times that there were actually two distinct species, viz., male and female. These roots were often carved to resemble the human figure, and were worn as charms to ward off disease.



MANDRAGORA

From an MS. of the XV century

The first mention of mandragora (*Mandragora Atropa*, L.), as an anæsthetic, is made by Dioscorides (ca. A. D. 100), who evidently recognised the difference between the hypnotic and anæsthetic effects of the drug, from which one may assume that it was employed for both purposes in the medical practice of that day. Respecting the former, he states: "Eating which [mandragora] shepherds are made sleepy," and, referring to the latter property, he remarks that "three wine-glassfuls of a liquid preparation of the root are given to those who are about to be cut or burnt, for they do not feel the pain."

Mandragora
as an
anæsthetic

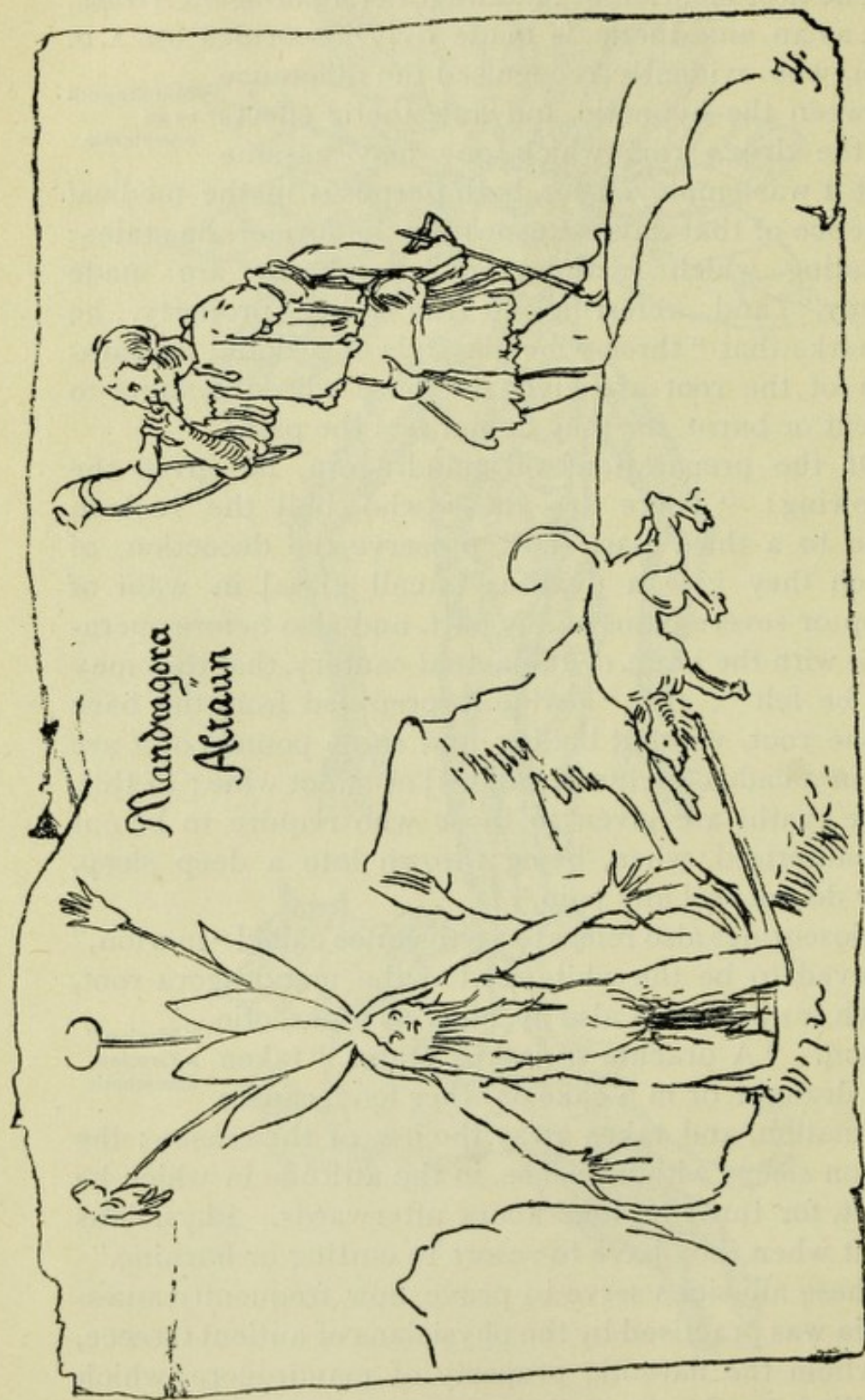
Of the preparations of mandragora, he gives the following: "There are those who boil the root in wine to a third part, and preserve the decoction, of which they give a cyathus [small glass] in want of sleep or severe pains in any part, and also before operations with the knife, or the actual cautery, that they may not be felt"; also "a wine is prepared from the bark of the root, without boiling, and three pounds of it are put in a cadus [eighteen gallons] of sweet wine; of this, three cyathi are given to those who require to be cut or cauterised, when, being thrown into a deep sleep, they do not feel any pain."

Dioscorides also refers to a substance called "morion," believed to be the white seed of the mandragora root, which is mentioned also by Pliny as a narcotic poison. "A drachm of it," he states, "taken in a draught, or in a cake or other food, causes infatuation, and takes away the use of the reason; the person sleeps without sense, in the attitude in which he ate it, for three or four hours afterwards. Physicians use it when they have to resort to cutting or burning."

"Morion,"
a Grecian
anæsthetic

These allusions serve to prove how frequently anæsthesia was practised by the physicians of antient Greece, to whom the narcotic property of mandragora, which is allied to *Atropa Belladonna*, or deadly nightshade, was well known.

The younger Pliny (A. D. 32-79), in his "Natural



GATHERING MANDRAGORA

From a drawing of the XVI century

The plant is being uprooted by the struggling dog, whilst a horn is blown to drown the cries of the fatal herb

History," also describes the use of mandragora as a narcotic, and gives preference to the use of the leaves over the root for that purpose. "The dose," he says, "is half a cyathus, taken against serpents, and before cuttings and puncturings, that they may not be felt." He further adds: "For these purposes it is sufficient for some persons to seek sleep from the smell," from which it is clear that this anæsthetic was also used by inhalation.

With reference to mandragora, Sir Benjamin Ward Richardson once prepared a draught according to one of the recipes given by Dioscorides, and took it. He tells us that "the phenomena repeated themselves with all faithfulness, and there can be no doubt that, in the absence of our now more convenient anæsthetics, "morian" might still be used with some measure of efficacy for general anæsthesia."

Further allusion is made to mandragora as a surgical anæsthetic by Apuleius in his "Liber de Herbis," in which he says: "If anyone is to have a limb mutilated, burnt, or sawn, he may drink half an ounce of mandragora with wine; and while he sleeps the member may be cut off without any pain or sense."

Avicenna, the Father of Arabian medicine, gives special directions as to the employment of mandragora, both as an anæsthetic and a hypnotic; while Averrhöes, another Arabian physician, refers to the soporific effects of the fruit of the same plant. Galen also alludes to its powers to paralyse sensation, and Paulus Ægineta states: "Its apples are narcotic, when smelled to, and also their juice, that if persisted in they will deprive the person of his speech." According to Isidorus, "a wine of the bark is given to those about to undergo operations, that, being asleep, they feel no pain"; and Serapion confirms this statement in his works.

Evidence of the practice of surgical anæsthesia is to be found in the writings of several physicians during the time of the Roman Empire. It is probable that the practice came to them

Anæsthesia
in Roman
times

from the Greek school, for mandragora, which they almost invariably used, grew largely in the Grecian Archipelago. Celsus recommends a pillow of mandragora apples to induce sleep.

HINDU ANÆSTHETICS

From ancient records it appears probable, that the Hindus inhaled the fumes of burning Indian hemp as an anæsthetic at a period of great antiquity. As early as the year 977 they also knew of other drugs which they employed for the same purpose.

Pandit Ballala describes an interesting surgical operation which was performed on King Bhoja at that period. The patient was suffering from severe pain in the head, and, his condition becoming critical, two brother-physicians happened to arrive in Dhar, who, after carefully considering the case, came to the conclusion that a surgical operation was necessary to give relief. They are said to have administered to him a drug called *sammohini* to render him insensible, and while he was completely under its influence they trepanned his skull and removed the real cause of the complaint. They closed the opening, stitched up the wound, and applied a healing balm.

After the operation, they are said to have administered to the King a drug called *sanjivini*, to accelerate the return of consciousness and to minimise the chances of death.

It is recorded that "a Chinese physician named Hoa-Tho, who lived about A.D. 220 or 230, was accustomed to administer to his patients on whom he wished to perform painful operations, a preparation called 'Ma-yo' (Indian hemp, probably), the effect of which was that, after a few moments, they became insensible as if they were deprived of life."

Miss Isabella Bird, when visiting the Tung-wah Hospital, in Hong-Kong, states: "The native surgeons

An antient
Chinese
anæsthetic

do not use chloroform in operations, but they possess drugs which throw their patients into a profound sleep, during which the most severe operations can be performed. One of them showed me a bottle containing a dark brown powder, which, he said, produced this result ; but he would not divulge the name of one of its constituents, saying it was a secret taught him by his tutor."

From very early times the fumes of burning lycoperdon (*Lycoperdon gygantum*) have been used for stupefying bees before taking honey from the hive.

Thus it will be seen from the many allusions we have quoted from writers in the early ages, it is evident that mandragora and Indian hemp were the two drugs which were more or less in general use as anæsthetics in antient times.

ANÆSTHETICS IN THE MIDDLE AGES

In a Celtic manuscript of the twelfth century on materia medica, a preparation called "potu oblivionis" is mentioned, of which mandragora was probably an ingredient. A draught of this preparation was used by the early Irish to induce sleep.

An early
Irish
anæsthetic

Coming to the fifteenth century, the method of producing insensibility to pain by the inhalation of the volatile principles of drugs, which had been handed down by tradition from the early ages, seems to have been revived by Hugo of Lucca, a Tuscan physician. He is described as "chief of a school of surgeons that treated wounds with wine, oakum and bandaging, with happy success." Theodoric, his son, who was a monk-physician, and practised surgery, mentions, in 1490, a preparation used by his father which he calls "oleum de lateribus." This he describes as "a most powerful caustic, and a soporific which, by means of smelling alone, could put patients to sleep on occasion of painful operations which they were to suffer." The mixture was

The
"Sleeping
Sponge"



AN OPERATION ON THE LIVER

From an MS. of the XIV century

placed on a sponge in hot water, and then applied to the nostrils of the patient, and was called the "spongia somnifera." The following is the composition of the "sleeping sponge" and the method of using, as stated by Theodoric: "Take of opium, of the juice of the unripe mulberry, of hyoscyamus, of the juice of hemlock, of the juice of the leaves of mandragora, of the juice of the woody ivy, of the juice of the forest mulberry, of the seeds of lettuce, of the seeds of dock, which has large round apples, and of the water-hemlock, each an ounce: mix all these in a brazen vessel, and then place in it a new sponge; let the whole boil as long as the sun lasts on the dog-days, until the sponge consumes it all, and has boiled away in it. . . . As oft as there shall be need of it, place this sponge in hot water for an hour, and let it be applied to the nostrils of him who is to be operated on until he has fallen asleep, and so let the surgery be performed."

Method of
using the
"Sleeping
Sponge"

According to Bodin, the sleep produced was so profound that the patient often continued in that condition for several days afterwards. The method of arousing the patient employed by Hugo, however, is thus described: "In order to awaken him, apply another sponge, dipped in vinegar, frequently to the nose, or throw the juice of fenugreek into the nostrils; shortly he awakens."

According to Canappe, in his work "*Le Gydon pour les Barbiers et les Chirurgiens*," published in 1538, the "*Confectio soporis secundum dominum Hugonem*" was used by surgeons at that period.

Reginald Scott, in a work written in the sixteenth century, gives the following recipe for making an anæsthetic: "Take of opium, mandragora bark and henbane root, equal parts; pound them together, and mix with water. When you want to sew or cut a man, dip a rag in this, and put it to his forehead and nostrils. He will soon sleep so deeply that you



A SURGEON AMPUTATING A LEG
From a woodcut of the XVI century

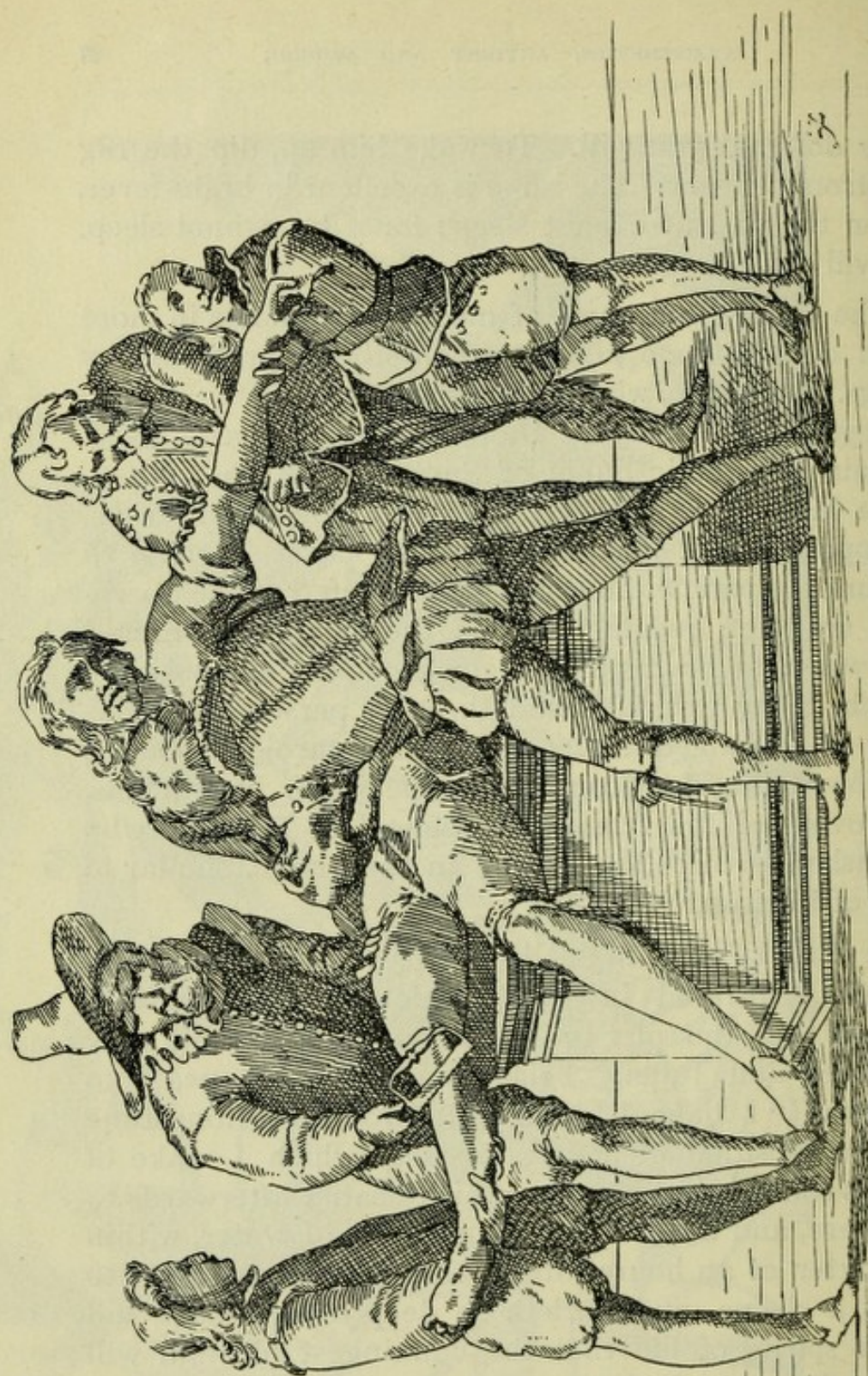
may do what you will. To wake him up, dip the rag in strong vinegar. The same is excellent in brain-fever, when the patient cannot sleep; for if he cannot sleep, he will die."

The writers and poets of mediæval romance in more than one instance allude to anæsthesia produced by drugs. Boccaccio, who wrote his "Decameron" in 1352, in the story of Dionius, alludes to a certain anæsthetic liquid of Surgeon Mazzeo della Montagna, of Salerno. "The doctor," he says, "supposing that the patient would never be able to endure the pain without a soporific, deferred the operation until the evening, and in the meantime ordered the water to be distilled from a certain composition, which, being drunk, would throw a person asleep as long as he judged it necessary." Boccaccio, probably, borrowed his idea from the recipe given by Nichols, a provost of the famous old school of Salerno, who published a recipe for making an anæsthetic, similar to that of Reginald Scott.

Anæsthesia
in romance

In Brooke's "Tragicall Historye of Romeus and Julietta," printed in 1562, which supplied Shakespeare with the plot and much material for his play "Romeo and Juliet," Friar Laurence thus speaks to Julietta: "I have learned and proved of long time the composition of a certain paste which I make of divers somniferous simples, which beated afterwards to powdere, and dronke with a quantitie of water, within a quarter of an houre after, bringeth the receiver into such a sleepe, and burieth so deeply the senses and other spirits of life that the cunningest phistian will judge the party died.

"And, besides that, it hath a more marvellous effect, for the person which useth the same feeleth no kind of grief, and, according to the quantitie of the draught, the patient remaineth in a sweete sleepe; but when the operation is perfect and done, he returneth unto his first estate."



A SURGEON AMPUTATING A LEG

Shakespeare's references to mandragora, poppy and other "drowsy syrups," are too well known to need quotation; but the following allusion by Middleton, in his play called "Women beware Women!" is not without interest:—

I'll imitate the pities of old surgeons
To this lost limb, who, ere they show their art,
Cast one asleep, then cut the diseased part.

William Bulleyn, the author of "A Bulwark of Defence against Sickness," who practised as a surgeon in the reign of Henry VIII, describes an anæsthetic which he directs to be prepared from the juice of a certain herb (probably mandragora) "pressed forth, and kept in a closed earthen vessel according to art, bringeth deep sleep, and casteth man into a trance, or deep terrible sleep, until he shall be cut of the stone."

The poet Marlowe thus refers to mandragora in his play "The Jew of Malta":—

Allusions to
anæsthesia
by antient
poets

Barabas:

I drank of poppy and cold mandrake juice,
And being asleep, belike they thought me dead,
And threw me o'er the walls.

Du Bartas, as translated by Sylvester in 1592, makes the following allusion to anæsthesia:—

Even as a surgeon minding off to cut
Som cureless limb; before in use he put
His violent engins in the victim's member,
Bringeth his patient in a senseless slumber:
And griefless then (guided by use and art)
To save the whole, saws off the infested part.

Porta, writing in 1579, says: "It is possible to extract from several soporific plants a quintessence, which is to be shut up in a well-covered leaden vessel, lest the drug should evaporate. When it is to be used, the lid is to be removed and the medicament held to the nostrils, when its vapour will be drawn in by the breath and attack the citadel of the senses, so that the patient will be sunk in a deeper sleep not to be shook off without much labour."



A SURGEON PERFORMING AN OPERATION ON THE EYE

From a woodcut of the XVII century

Besides mandragora, opium, Indian hemp, and other plants with narcotic properties already referred to, that were used for anæsthetic purposes in mediæval times, certain substances are mentioned by early writers that cannot be identified. Thus Albertus Magnus mentions an animal product, of which he says: "Any person smelling it falls down as if dead and insensible to pain," but there is no reference to such a drug by other writers of the period.

Local anæsthesia was not unknown during the middle ages, and Cardow recommends the inunction of a mixture consisting of "opium, celandine, saffron, and the marrow and fat of man, together with oil of lizards."

Local
anæsthetics
in antient
times

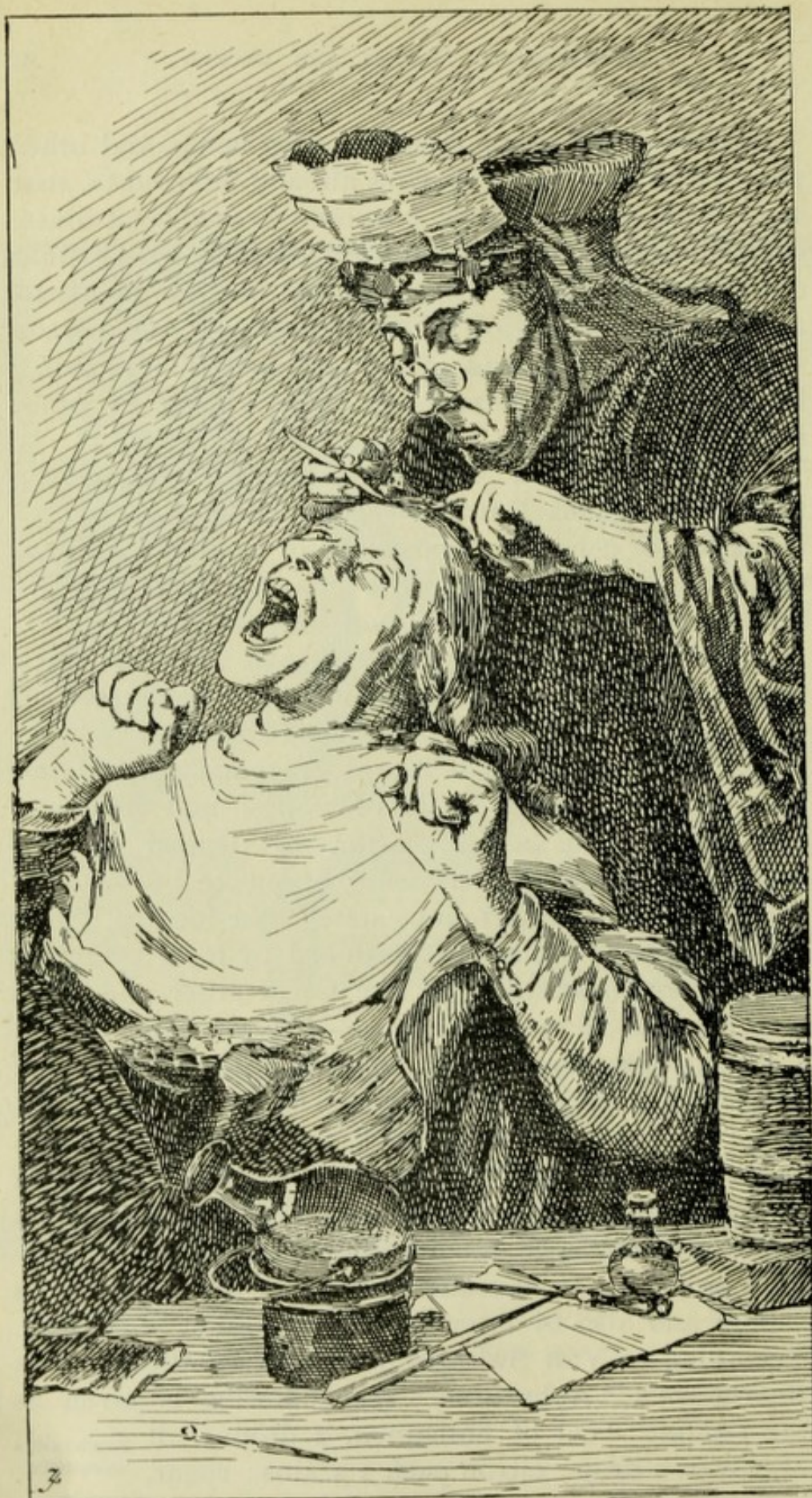
He also adds: "If the patient drinks wine in which the seeds of the *patulica marina* have been steeped for a week it will prevent him feeling any pain."

Bernard mentions that it was customary in Salerno to mix the crushed seeds of poppy and henbane, and apply them as a plaster, to deaden sensibility, to parts that were about to be cauterised; while Bartolinus states that local anæsthesia was sometimes produced by freezing, thereby foreshadowing the use of ether and ethyl chloride as local anæsthetics.

First
mention of
freezing
as an
anæsthetic

During the seventeenth century the belief in the narcotic draughts of the antients for producing anæsthesia appears to have waned, and few allusions are made to them until the middle of the eighteenth century, when fresh interest seems to have been excited in the subject. The famous Boerhaave is said to have used opium as an anæsthetic, both by inhalation of its vapour and also by internal administration in powder. According to Van Swieten, in his commentaries upon Boerhaave's "Aphorisms," the following is given as the recipe: "Oil of cinnamon, 2 drops; oil of cloves, 1 drop; citron peel, 2 grains; sugar, 2 drachms. Mix and add red coral, prepared, 1 drachm; pure opium, 2 grains. Mix for two doses, one of which

Boerhaave's
anæsthetic



AN OPERATION IN THE SEVENTEENTH CENTURY
From a painting by Franz Hals

is to be taken one hour before the operation, and the other one quarter hour before it, if the patient has not slept."

In 1782, Weiss is said to have operated on the foot of Augustus, King of Poland, having previously placed the royal patient under the influence of "a certain potion surreptitiously administered."

An operation
on the King
of Poland

Shortly afterwards Sassard, a surgeon of La Charité, in Paris, suggested that patients who were about to be operated upon should be drugged with narcotics as a means of preventing shock. That this method was sometimes practised is evidenced from a chapter in "Bell's Surgery," where the author not only refers to it but objects to the method on account of the sickness and vomiting it produced.

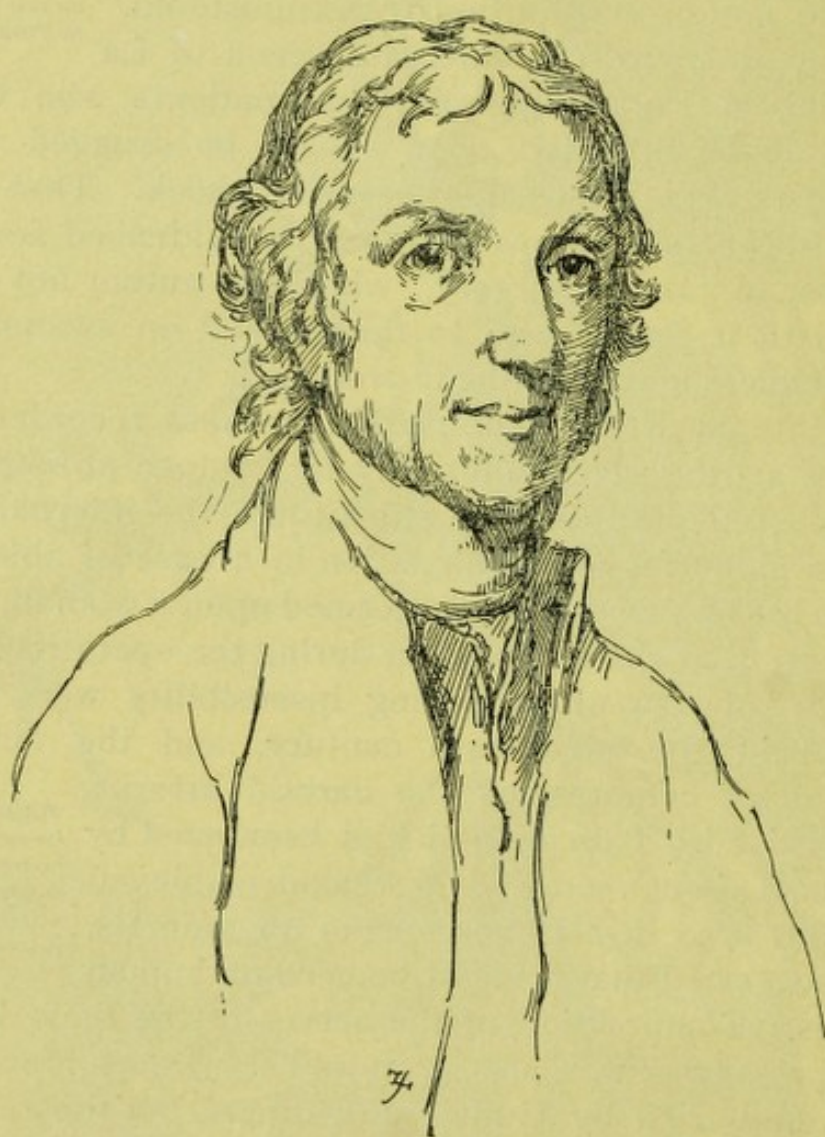
As late as 1847, Chisholm, of Inverness, recorded his use of a drug given internally to produce anæsthesia for surgical purposes; he substituted the internal use of morphine for ether inhalation in a case of ablation of the breast successfully performed upon a woman, who declared that she felt no pain during the operation.

Other means of producing insensibility were suggested in the eighteenth century, and the antient method of compressing the carotid arteries was revived. This method had been used by Valverdi about 1560, and Morgagni employed it about 1750 in his experiments on animals, and suggested that it might be used on human beings. Compression of the nerves of the limb about to be removed, was also proposed, by James Moore in 1784, and tried by Hunter and others, but the results could not be regarded as successful.

Anæsthesia
by compression
of the
carotid
arteries
revived

Surgical operations at this time meant periods of agonising pain, and the stoutest hearts often quailed at the prospect. It is said that Lord Nelson was so painfully affected by the coldness of the operator's knife when his right arm was amputated at Teneriffe, that at the Battle of the Nile he gave orders to his surgeon to have hot

Nelson's
arm
amputated



JOSEPH PRIESTLEY

water kept ready, so that at the worst he might be operated upon with a warm knife.

Thus from the dawn of creation anæsthesia for surgical operations had been practised to some extent, but owing to the uncertainty of the potency and action of the powerful narcotics and palliatives administered, and the danger attending their use when exact science was unknown, the practice seemed likely to fall into oblivion. At last a series of brilliant discoveries in chemistry created a new epoch in the history of anæsthesia.

The dawn
of a new
era

THE CHEMICAL ERA OF ANÆSTHETICS

The discoveries of Priestley about 1767 led up to the plan of administering gases and vapours of definite composition by inhalation through the lungs, and directly he had demonstrated the existence of "vital air," or oxygen, the properties of this body were tested in the hope of great results in the art of medicine. Priestley's experiments concerning the inhalation of oxygen were in time followed by those of Beddoes, who recommended the inhalation of oxygen, hydrogen and other gases in the treatment of disease. It seemed only natural that experiments with other gases and vapours by inhalation should follow. Pearson, of Birmingham, administered ether in this way in 1795 for the relief of consumption, and ten years afterwards Warren, of Boscombe, employed ethereal inhalation to relieve the sufferings attending the later stages of phthisis.

Priestley's
discoveries

Priestley's discoveries of the method of liberating and collecting gases, and his demonstrations that certain gases could be absorbed and compressed in water, led to the introduction of aërated waters—carbonic acid gas being the first to be employed.

In the course of time, nitrous oxide, which had been discovered by Priestley in 1776, was compressed



SIR HUMPHRY DAVY

in water, and came into general use as a medicinal agent.

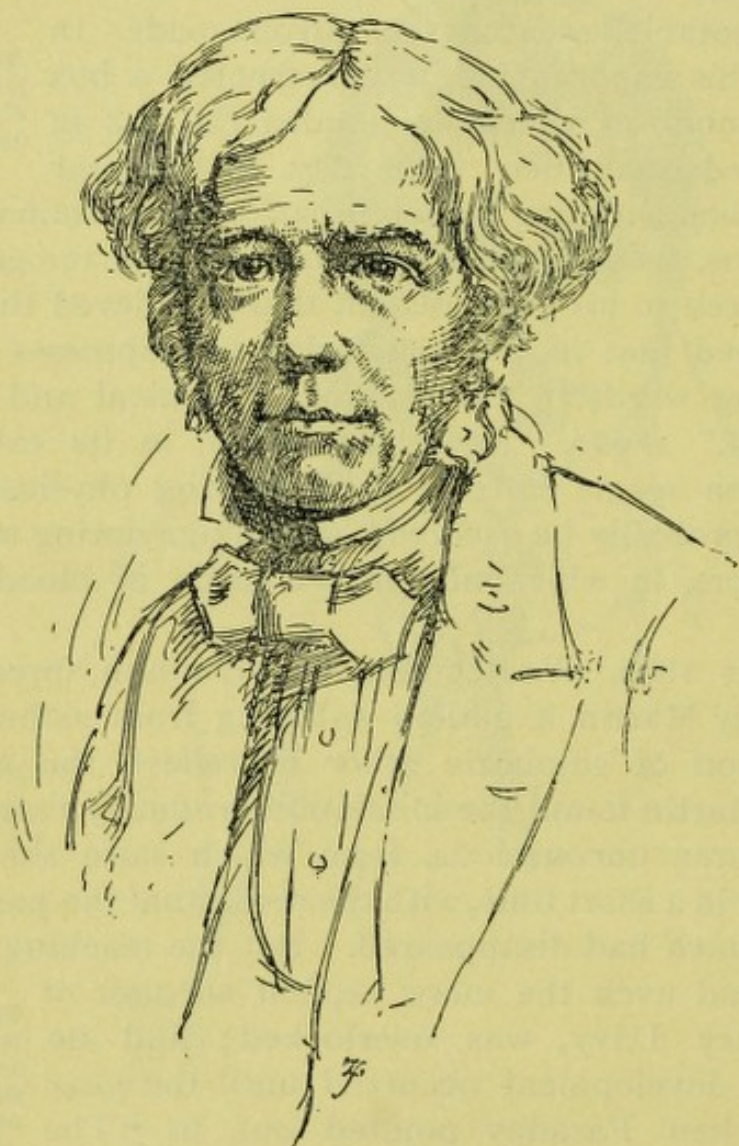
In 1798, a Medical Pneumatic Institution was established at Bristol by the exertions of Beddoes and others, and Humphry Davy was appointed superintendent. It was here that he commenced and carried on his notable researches on nitrous oxide. In one of his experiments he constructed a box or chamber in which he inhaled the gas in measured quantities. One day, in the year 1799, when suffering from toothache or inflammation of the gums, he resorted to the inhalation of the gas, and discovered to his great delight that it relieved the pain, which led him to the conclusion he expresses in the following words in "Researches Chemical and Philosophical," 1800: "As nitrous oxide in its extensive operation seems capable of destroying physical pain, it may probably be used with advantage during surgical operations in which no great effusion of blood takes place."

Anæsthetic
properties
of nitrous
oxide

About 1806, Woolcombe, of Plymouth, prescribed for Lady Martin, a patient suffering from asthma, the inhalation of sulphuric ether to relieve the attacks. Lady Martin found the inhalation gradually caused her to become unconscious, from which state she would recover in a short time, with the result that the paroxysm of dyspnœa had disappeared. But the teaching of this case, and even the more explicit account of Humphry Davy, was overlooked; and no further development occurred until the year 1818, when Faraday pointed out, in "The Quarterly Journal of Science and Arts," that the inhalation of the vapour of sulphuric ether produced effects similar to those caused by nitrous oxide.

Faraday
points out
similarity in
the effects
of nitrous
oxide and
sulphuric
ether

About this time Professor Thompson, of Glasgow, was accustomed annually to amuse his students by allowing them to inhale ether and nitrous oxide until they were intoxicated, and occasionally became unconscious, when it was noticed that they were insensible to the



MICHAEL FARADAY

prick of a pin, or a blow. In these cases the gas or ether was inhaled from a bladder. Two drachms of rectified and washed ether were poured into a bladder and allowed to diffuse. Then the mixture of air and ether vapour was breathed, the expired air being allowed to enter the bladder also. Curiously enough, very little improvement has been made on this method of administration to the present day.

It is an extraordinary fact that, even in the face of such experiments as those we have referred to, no one among the investigators who stood at this time on the brink of so great a discovery ventured over the threshold. It is almost inconceivable in these days to realise, that for thirty-nine years these substances were used for experimental purposes, and even for amusement, without a realisation of the great blessing to humanity that lay almost within grasp. The things that are apparently most plain may lie longest buried; so with the discovery of efficient anæsthesia, which even then developed in an indirect manner.

On the
brink of the
discovery

MESMERISM AS AN ANÆSTHETIC

From the earliest ages the apparent power of some men to influence the minds and bodies of others has been known. Certain diseases were said to be affected by the touch of the hand of certain persons, who were supposed to communicate a healing virtue to the sufferer, and these practices were often connected with religious and magical rites. This method of healing was practised in antient times by the Chaldæans, Babylonians, Egyptians, Persians, Hindus, Greeks and Romans. Their priest-physicians are said to have effected cures and to have thrown people into deep sleep in the precincts of the temples. Such influences were at that time held to be due to supernatural power, a belief which was no doubt fostered by the priesthood. In the middle of the seventeenth century an Irishman named Valentine

Mesmerism
in antient
times

Greatrakes aroused great interest in England by his supposed power of being able to cure scrofula by stroking the patient with his hand. Most of the distinguished scientific men of the day, such as Sir Robert Boyle, witnessed and attested his cures, and thousands of sufferers crowded to him from all parts of the country. Since his time other men have come forward with similar claims, notably one Gassner, a Roman Catholic priest of Swabia, who in the early part of the eighteenth century attracted attention by stating that he could cure the majority of diseases by exorcism. His method had an extraordinary influence over the nervous systems of his patients, who in the end generally confessed themselves cured.

Healing by
"stroking"

In 1766, Mesmer, who was a pupil of Hehl, professor of astronomy at Vienna, and an advocate of the efficacy of the magnet for the cure of disease, met Gassner, and observed that the priest effected cures without the use of magnets and by manipulation alone. This led him to believe that some kind of occult force resided in himself, by means of which he could influence others. He held that this force permeated the universe, and more especially affected the nervous systems of men. In 1778, he removed to Paris, and shortly afterwards the French capital was thrown into a state of great excitement by the fact that human beings could be placed in a state of artificial sleep or trance, which was then called "mesmerism."

Mesmer's
experi-
ments

Mesmer's disciples claimed that even painful operations could be performed on patients in this condition without consciousness of pain.

Braid, who made a further investigation of the subject, dissented from the mesmerists as to the cause of the phenomenon, and called the condition "hypnotism." In 1846, the Deputy-Governor of Bengal appointed a committee to observe and report on the surgical operations

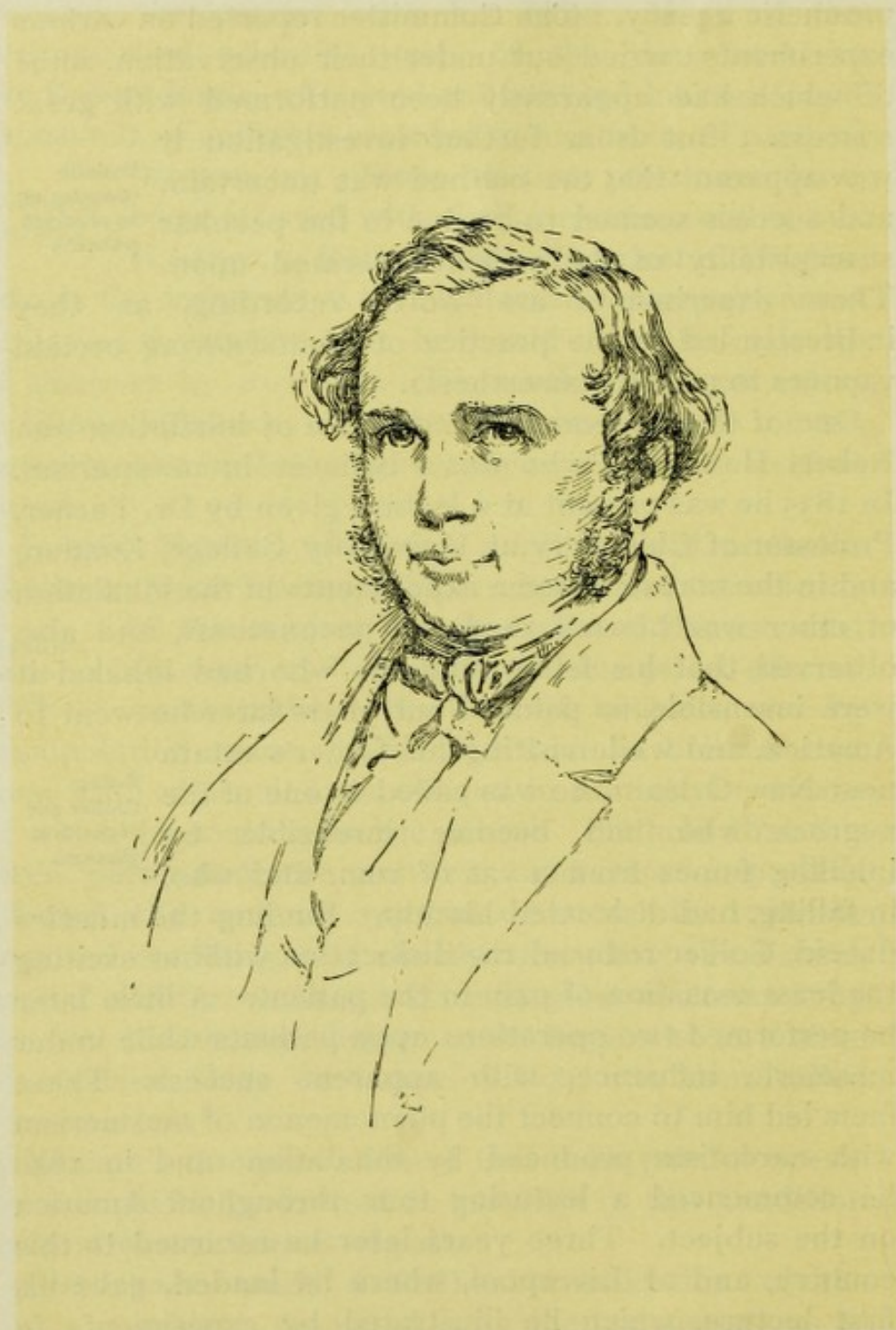
Braid's
researches
on
hypnotism

that were then being performed in India by Esdaile upon his patients, while under the influence of alleged mesmeric agency. The Committee reported on various experiments carried out under their observation, some of which had apparently been performed with great success. But from further investigation it was apparent that the method was uncertain, and success seemed to be due to the peculiar susceptibility of the patient operated upon. These experiments are worth recording, as they indirectly led to the practice of administering certain vapours to produce anæsthesia.

Esdaile
operates on
hypnotised
patients

One of the pioneers in the practice of inhalation was Robert H. Collier, who was a believer in mesmerism. In 1835 he was present at a lecture given by Dr. Turner, Professor of Chemistry at University College, London, and in the course of some experiments in the inhalation of ether was himself rendered unconscious, and also observed that his fellow-students who had inhaled it were insensible to pain. Four years later he went to America, and while visiting his father's estate near New Orleans, he was called to one of the negroes who had become insensible by inhaling fumes from a vat of rum, and who, in falling, had dislocated his hip. Finding the muscles flaccid, Collier reduced the dislocation without exciting the least sensation of pain in the patient. A little later he performed two operations upon patients while under mesmeric influence, with apparent success. These facts led him to connect the phenomenon of mesmerism with narcotism produced by inhalation, and in 1840 he commenced a lecturing tour throughout America on the subject. Three years later he returned to this country, and at Liverpool, where he landed, gave his first lecture, which he illustrated by experiments in mesmerism, and also showed the possibility of rendering a subject unconscious by the fumes of alcohol in which poppy-heads and coriander had been macerated. The theory he advanced, and attempted to prove

Robert
Collier one
of the first
pioneers



HORACE WELLS

throughout, was that the so-called mesmeric influence was identical in action with that of narcotic vapours.

He claimed to have administered the fumes of his alcoholic mixture to a Mrs. Allen, of Philadelphia, in 1842, and while under its influence he extracted a tooth without causing her pain. Collier's lectures excited general attention at the time, and there is little doubt that they gave a fresh impetus to research on the subject of anæsthesia by inhalation. He must therefore be regarded as an important pioneer, who, had he given up his ideas of mesmerism and proceeded systematically with his plan of making the body insensible by inhaling the vapour of alcohol, would have had no one to dispute with him in priority.

Uses his
alcoholic
mixture as
an anæsthetic in
1842

THE NITROUS OXIDE ERA

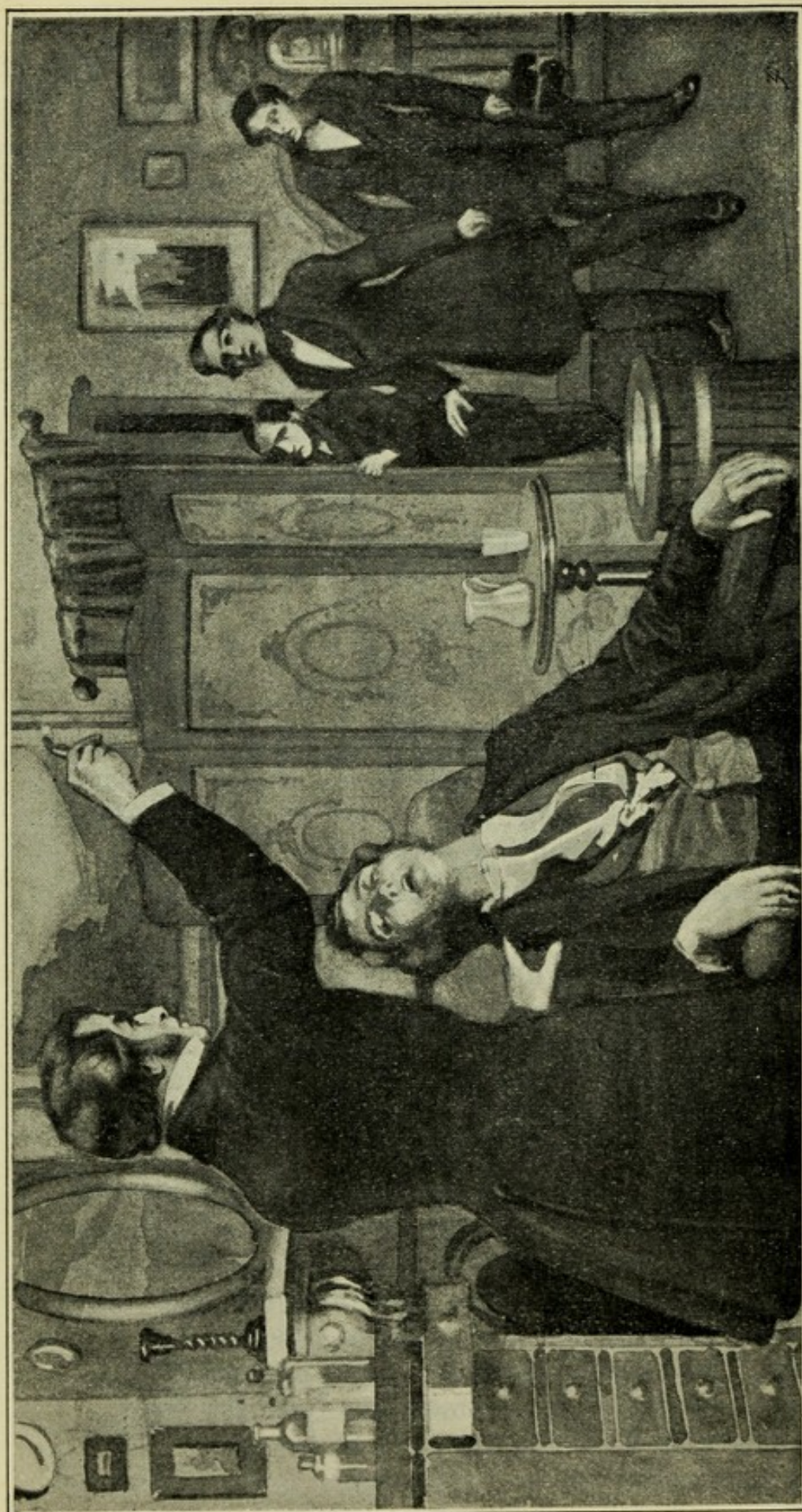
Although, as already stated, Humphry Davy had discovered the anæsthetic properties of nitrous oxide as far back as the year 1800, forty-four years elapsed before his idea was put into practical use.

On December 11th, 1844, Dr. G. Q. Colton, a well-known lecturer on popular scientific subjects in America, and a pupil of Professor Turner, of London, delivered a lecture at Hartford, Connecticut, during which he gave a demonstration of the action of nitrous oxide gas. Horace Wells, a dentist, then in practice in the same town, formed one of the audience.

Colton
lectures on
nitrous
oxide

Among the persons who were invited by the lecturer to inhale the gas for the amusement of the audience was a man named Cooley, who wounded himself severely by falling against the benches, and only became aware of the fact when he saw the blood. Wells was greatly struck by this incident, and he determined to test the anæsthetic effects of the gas upon himself the next day by having a decayed upper molar extracted

Wells
makes his
historic
experiment



"A NEW ERA IN TOOTH-PULLING"

The first dental operation performed on Horace Wells whilst under the influence of nitrous oxide gas

while under its influence. After the lecture he asked Dr. Colton if he would come to his house and administer the gas to him; and, on receiving his promise, he induced a Dr. Riggs to be the operator.

The historic event is described by the latter as follows: "A few minutes after I went in, and, after conversation, Dr. Wells took a seat in the operating chair. I examined the tooth to be extracted, with a glass, as I usually do. Wells took a bag of gas from Dr. Colton and sat with it in his lap, and I stood by his side; he then breathed the gas until he was much affected by it: his head dropped back, I put my hand to his chin, he opened his mouth, and I extracted the tooth. His mouth still remained open some time. I held up the tooth with the instrument that the others might see it; they, standing partially behind the screen, were looking on. Dr. Wells soon recovered from the influence of the gas so as to know what he was about, discharged the blood from his mouth, and said, 'A new era in tooth-pulling!' He said it did not hurt him at all. We were all much elated, and conversed about it for an hour later."

"A new
era in
tooth-
pulling"

After this Wells extracted several teeth from his patients under nitrous oxide gas with equal success, and then went to Boston in order to make his discovery known to the medical profession in that city. He remained there some days in the hope of being allowed to try the gas in a case of amputation in the Massachusetts General Hospital, but the experiment was postponed. Dr. Warren, senior surgeon to the institution, however, invited him to address his class on the subject of anæsthesia, after which he was asked to administer the gas in a case of tooth extraction. He was assisted on this occasion by Morton, a Boston dentist who had been his pupil, and afterwards, for a time, his partner. The experiment, as Wells himself confesses, was not quite a success, the gas-bag having been removed too soon. The whole thing was

denounced as a piece of humbug, and Wells was hissed out of the room as an impostor.

Disheartened at length by the failure of his repeated attempts to establish his claims to priority as the discoverer of anæsthesia, his mind appeared to become affected, and for a time he wandered about the streets of New York. On January 4th, 1848, he was arrested and charged with throwing vitriol, but while in gaol he opened his radial artery, having first inhaled ether to make death painless. This sad event closed, at the age of thirty-two, the career of Horace Wells, to whom at least belongs the credit of having first shown the practicability of producing insensibility by nitrous oxide, and of having thus, in his own words, "established the principle of anæsthesia."

Wells
disheartened
by failure

The death of
Horace
Wells

THE ETHER EPOCH

Probably the first published account of the use of ether as a medicinal agent was made by Morris in a letter read before the Society of Physicians in London,* on December 18th, 1758, in which he advocates its use internally, and also as an external application.

In 1818, Faraday, as already stated, had called attention to the anæsthetic properties of ether, and showed that the vapour of sulphuric ether, when inhaled, produced effects similar to those of nitrous oxide. After Wells' failure at Boston nothing further seems to have been done for a time to investigate the use of nitrous oxide as an anæsthetic.

In 1839, William E. Clarke, a young medical student of Rochester, New York, was in the habit of amusing some of his friends, among whom was another student named W. T. G. Morton, by the inhalation of ether. Emboldened by his experiences, in 1842 he is said to have administered ether,

Early
experiments
with ether

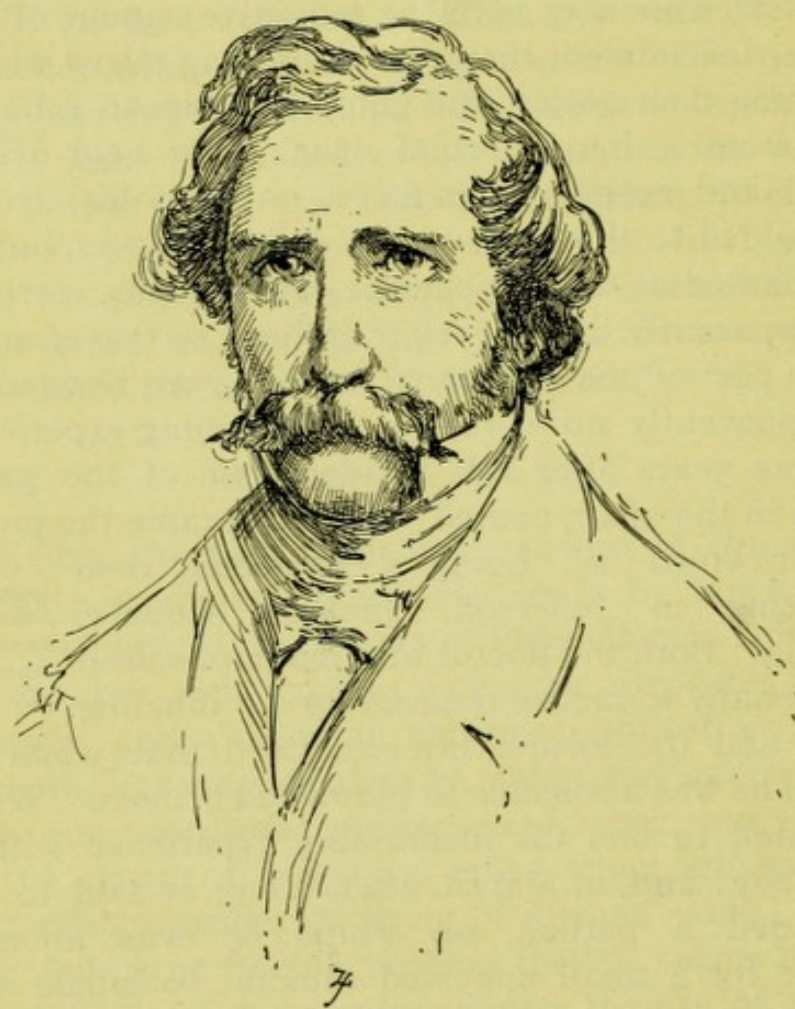
* "Med. Obs. and Enq." by the Society of Physicians in London, vol. 2, page 176, 1764.

by means of a towel, to a young woman named Hobbie, and during the period of insensibility which followed, one of her teeth was extracted by a dentist named Elijah Pope.

J. Marion Sims relates the following incident which he states happened in the year 1839:—"A number of youths in Anderson, South Carolina, were exhilarating themselves one day with the seductive vapour of ether. In their excitement they seized a young negro who was watching their antics, and compelled him to inhale the drug from a handkerchief which they held over his mouth and nose by main force. At first his struggles only added to the amusement of his captors, but they soon ceased as the boy became unconscious, stertorous and apparently dying. After an hour or two of anxiety on the part of the spectators he, however, revived, and was apparently no worse for his alarming experience."

Three years after this incident one of the participants in the affair, named Wilhite, became the pupil of Dr. Crawford W. Long, a physician then practising in Jefferson, Jackson County, Georgia. Both the doctor and his pupils used occasionally to amuse themselves by inhaling ether, and the former often noticed that while thus excited he was insensible to blows and bruises. Wilhite recounted to him his memorable experience with the negro boy; and, in March, 1842, Long is said to have persuaded a patient, on whom he was about to operate for a small encysted tumour, to inhale ether until he was insensible. The patient consented, and the tumour was removed without any pain or accident. This memorable event was simply recorded by Long in his ledger thus:—"James Venable, 1842. Ether and excising tumour, \$2.00." Three months later he removed another tumour from the same patient in a similar way, and also performed three other operations during that year. He is said to have again repeated the experiment in 1843 and 1845, but the district in which he lived was so far removed from contact with the large cities and

Long
claims to
have used
ether in
1842



W. T. G. MORTON

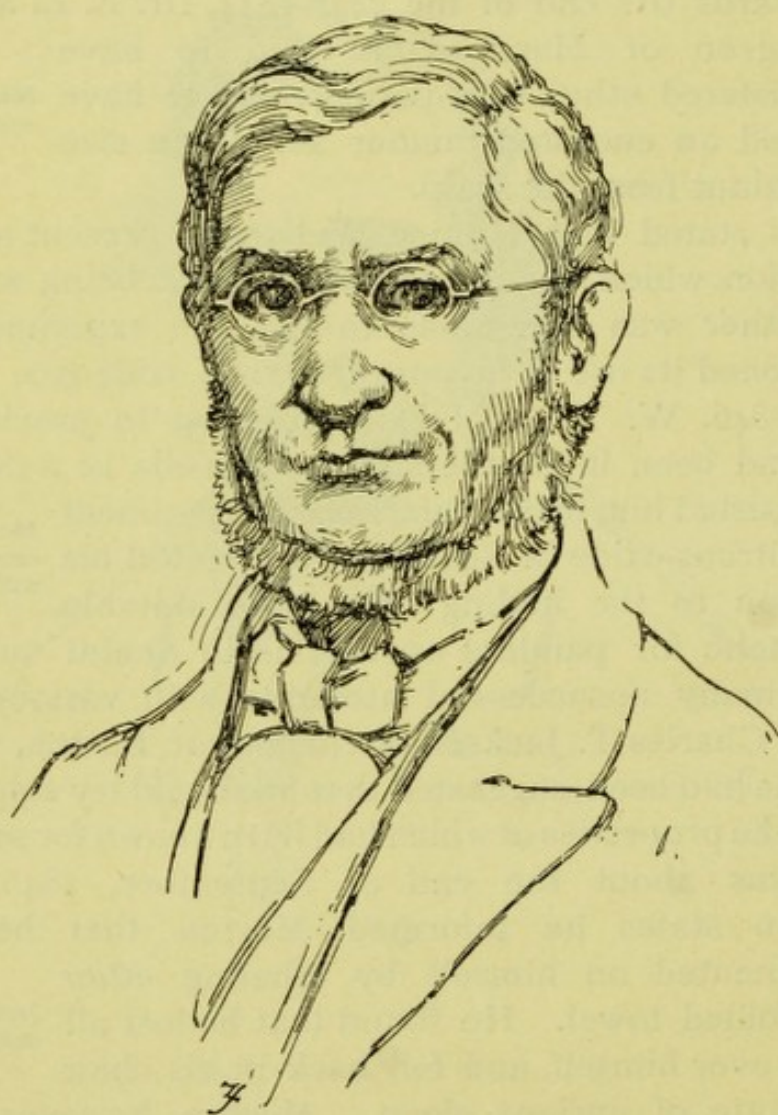
centres of thought, that the discovery remained unknown and unpublished until long after the anæsthetic properties of ether had been fully proved elsewhere. Long himself admits that he considered ether impracticable owing to the shortness of the anæsthetic state, and he therefore abandoned its use.

Towards the end of the year 1844, Dr. E. E. Marcy, a surgeon of Hartford, is said to have administered ether to a patient, and to have removed an encysted tumour about the size of a walnut from the scalp. Marcy's experiment

It is stated that Horace Wells was present at this operation, which was quite successful, but, being warned that ether was dangerous to life, the experimenters abandoned its use in favour of nitrous oxide gas.

In 1846, W. T. G. Morton (referred to previously) who had been in partnership with Wells as a dentist, and assisted him in the unfortunate experiment with nitrous oxide in Boston, now directed his attention to the finding of a more suitable anæsthetic for painless operations in dental surgery. Morton's experiments with ether After many unsuccessful attempts with various narcotics, Charles T. Jackson, a chemist of Boston, whose pupil he had been, suggested that he should try sulphuric ether, the properties of which had been known for so long.

It was about the end of September, 1846, that Jackson states he informed Morton that he had experimented on himself by inhaling ether on a folded towel. He found that he lost all power over himself, and fell back in his chair in a state of curious sleep. Jackson's story Morton, however, tells another story, and relates how, having procured some chemically pure ether on September 30th, 1846, he shut himself in a room alone and inhaled the vapour. He states: "I found the ether so strong that it partly suffocated me, but produced no decided effect. I then saturated my handkerchief and inhaled it from that. I looked at my watch and soon lost consciousness. As I recovered I felt a numbness in my limbs, and a



CHARLES T. JACKSON

sensation like nightmare. I thought for a moment I should die in that state, but at length I felt a slight tingling of the blood in the end of my third finger, and made an effort to press it with my thumb, but without success. At the second effort I touched it, but there seemed to be no sensation. I attempted to rise from my chair, but fell back, and looked immediately at my watch and found that I had been insensible between seven and eight minutes."

THE FIRST DENTAL OPERATION UNDER ETHER

Morton soon had an opportunity of making a practical experiment with the anæsthetic, for the same evening, about nine o'clock, a man named E. H. Frost called upon him suffering from a violent attack of toothache. "Can't you mesmerise me?" asked the sufferer. "Upon which," says Morton, "I told him that I had something better than mesmerism by means of which I could take out his tooth without giving him pain. He gladly consented, and saturating my handkerchief with ether, I gave it to him to inhale. He became unconscious almost immediately. It was dark, and Dr. Hayden held the lamp. My assistants were trembling with excitement, apprehending the usual prolonged scream from the patient while I extracted a firmly-rooted bicuspid tooth. I was so agitated that I came near throwing the instrument out of the window. But now came a terrible reaction. The wrenching of the tooth had failed to rouse him in the slightest degree. I seized a glass of water, and dashed it in the man's face. The result proved most happy. He recovered in a minute, and knew nothing of what had occurred."

Morton next appealed to Dr. John C. Warren, who was then Senior Surgeon at the Massachusetts General Hospital, and obtained permission to test his new anæsthetic on a patient about to undergo a surgical operation. The date fixed was Friday, October 16th, 1846, and at the

First
surgical
operation
under ether

appointed time a large number of medical men had assembled in the theatre. Morton administered the anæsthetic successfully, and the operation, which was for a congenital vascular tumour of the neck, in a young man named Gilbert Abbot, was completed in about five minutes without a groan from the patient. When it was finished, Dr. Warren exclaimed: "Gentlemen, this is no humbug!" The interest excited amongst those who witnessed the operation was naturally very great, and Dr. Henry J. Bigelow, who was present, said to a friend whom he met later in the day: "I have seen something to-day that will go round the world!" His prophecy proved correct.

Up to this time Morton had not disclosed the nature of the agent he employed, and nothing more was done until November 7th, when he expressed his willingness to reveal the secret. On this date two major operations were performed under ether, one by Dr. Hayward and the other by Dr. Warren.

From this time ether took its place as a general anæsthetic, and the practice of anæsthesia was firmly established.

Soon after the memorable 16th of October, a meeting was held in Boston, to choose a name for the new anæsthetic agent, and the word "letheon" was chosen by Morton himself; but, subsequently, Dr. Oliver Wendell Holmes suggested the name "anæsthesia" for the condition, and "anæsthetic" for the agent, which names have since come into general use.

The origin
of the words
"anæsthesia"
and
"anæsthetic"

Although it has never been very clearly established whether Morton or Jackson was the prime originator of the use of ether as an anæsthetic, the former was recognised by the United States Government as the discoverer, and received from it a handsome award. It seems most probable that Jackson supplied the inspiration, while Morton practically demonstrated it.

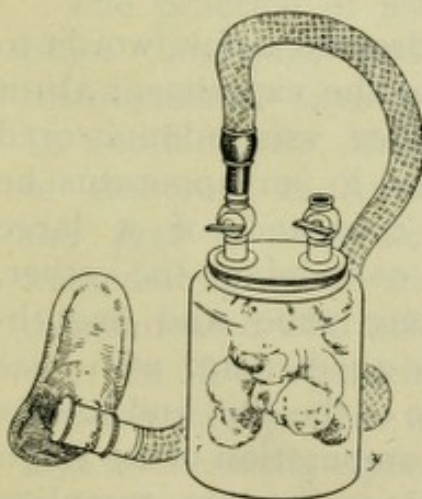
In reviewing the steps which led up to the discovery, it must not be forgotten that both Morton and Jackson were after all but followers of Collier, who first rendered himself unconscious with ether in the laboratory of University College, London, and forged one of the most important links in the chain of development.

Morton spent most of the remainder of his life in disputes about priority, and in efforts to secure recognition. He died bankrupt and broken-hearted on July 15th, 1868, before he had completed his forty-ninth year.

Curiously enough, Jackson, like Wells, became insane, and died in an asylum in 1880. When the friends of the rival claimants of the discovery of anæsthesia were proposing that monuments should be erected to each, Oliver Wendell Holmes characteristically suggested that all should unite in erecting a single memorial, with a central group symbolising painless surgery, a statue of Jackson on one side, a statue of Morton on the other, and the inscription underneath:—

TO E(I)THER

The news of the "ether process for removing pain," as it was then called, spread rapidly. A private letter



An apparatus called "Letheon"
One of the earliest employed for the
administration of Ether

from Dr. J. Bigelow to Dr. Francis Boote, of Gower Street, carried the first news to England, and was communicated to the medical profession in London on December 17th, 1846. Two days later, Mr. James Robinson, a dentist, of Gower Street, performed the first dental operation under ether in England, the patient being a Miss Lonsdale, and the operation

the extraction of a firm molar tooth.

On December 21st the first surgical operation under the new anæsthetic in England was performed by Robert Liston, in University College Hospital, London.

In the operating theatre, thronged with students, were the late Sir John Erichsen, the present Lord Lister, and many other famous surgeons. Mr. Barton relates an amusing incident which happened prior to the operation. Before the patient was brought in, the anæsthetist asked the students who crowded the benches in the theatre from floor to ceiling for some volunteer who would submit himself to be anæsthetised. A young man, Sheldrake, of very powerful build and a good boxer, at once offered to take the new anæsthetic, and came into the arena. "He lay on the table, and the anæsthetist proceeded to administer the ether. After the administration had proceeded for about half a minute, the subject of the experiment suddenly sprang up and felled the anæsthetist with a blow, and, sweeping aside the assistants in the arena, sprang shouting up the benches, scattering the students, who fled like sheep before a dog. He fell at the top bench, where he was seized and held down till he regained his senses. The whole scene hardly occupied a minute."

Before operating, Liston addressed a few words to those present as to the nature of the experiment about to be tried. The ether was administered by Mr. William Squire in an apparatus he had devised, which consisted of a large bell-shaped receiver containing the ether, to which was attached a long tube and mouth-piece. The patient, a middle-aged man, who was suffering from malignant disease of the skin and tissues of the calf of the leg, for which amputation of the thigh was deemed necessary, passed easily into complete insensibility, and Liston rapidly removed the thigh, the cutting operation being declared to have lasted only thirty-two seconds. In a few moments the patient

First
surgical
operation
under ether
in Great
Britain

New
method of
adminis-
tration

completely recovered consciousness, and apparently did not know that the limb was off. When the towel was removed from the uplifted stump so that he could see it, he burst into tears and fell back on his pillow. Both surgeon and patient were much affected, and the scene in the theatre was most impressive. All appeared to see what an incalculable boon was in store for the human race, and Liston could scarcely command his voice sufficiently to speak.

Some amusing stories are related of Liston, who was a very big, powerful man. His fine physique was often useful in the pre-anæsthetic days, when a patient's nerve gave way at the last moment at the sight of the crowded theatre and the operating-table with its straps. It is said that on one occasion a patient, losing his courage at the last moment, rushed shrieking down the long corridor of the hospital, with Liston at his heels. The man locked himself in a room, but the surgeon with his shoulder broke in the door, and half-dragged, half-carried the poor wretch back to the operating theatre, where the operation for stone was successfully performed.

A story of
Liston

The practice of using ether was soon followed in other hospitals, and not only medical men but distinguished laymen crowded to witness its use. In Scotland, Dr. Moses Buchanan, Professor of Anatomy in Anderson's University, was the first to have news of the event, and immediately after his lecture that day he experimented with ether inhalation. On the following day, in the operating theatre of Glasgow Royal Infirmary, a patient was placed under the anæsthetic and successfully operated on for fistula. So rapidly, indeed, did the practice spread from one centre to another, that by the end of the first quarter of 1847 the use of the new anæsthetic may be said to have become general in all operation cases.

First
surgical
operation
under ether
in Scotland

Simpson
proves
value of
ether in
midwifery

The value of ether in midwifery practice still remained to be proved, and Sir James Simpson was the first to suggest and test its use in this department. On January 9th, 1847, he first administered ether to a patient in order to facilitate the operation of turning. The result, he reported, was most satisfactory and important, for it at once afforded evidence of the one great fact upon which the whole of the practice of anæsthesia in midwifery is founded, viz., that though the physical sufferings of the patient could be relieved by the inhalation of ether, yet the muscular contractions of the uterus were not interfered with.

THE DISCOVERY OF CHLOROFORM AS AN ANÆSTHETIC

The next epoch-making event in the history of anæsthesia was the discovery of the anæsthetic properties of chloroform. The substance itself had been known for over a quarter of a century. Thomson, in his "System of Chemistry," 1820, describes a liquid which is formed by the union of chlorine and olefiant gas, called "Dutch liquid," or chloric ether. Early in the year 1831, Samuel Guthrie of Brimfield, Massachusetts, who was then residing in Sackett's Harbour, New York State, in consequence of a statement that he had read that the alcoholic solution of this chloric ether was useful in medicine as a diffusible stimulant, devised an easy method of preparing it. This being done, he wrote an article which he entitled "A Spirituous Solution of Chloric Ether," and forwarded it to the editor of the "American Journal of Science and Art," in which it was published in October of the same year. In this article he fully describes his method of preparation. A few months later, in January, 1832, Soubeiran published a paper in a French journal, stating that he had discovered this method in 1831, and to the distilled fluid he produced he had

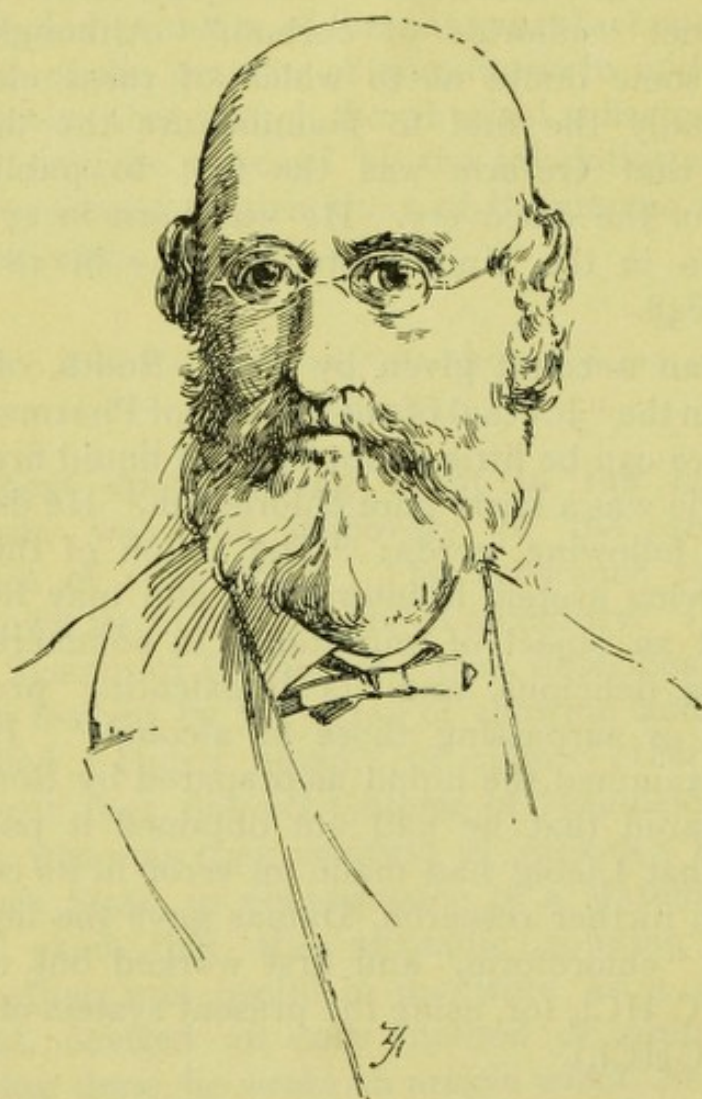
given the name of "bichloric ether," the formula being CHCl . Still a third claimant to the discovery came forward in the person of Liebig, who published his account in November, 1831, six months after Guthrie's manuscript was in the publisher's hands, and one month after its publication. The formula which Liebig deducted from his analysis was C_4Cl_8 , and he called his product "chloride of carbon." Although there may be some doubt as to which of these claimants was actually the first to manufacture the liquid, it is clear that Guthrie was the first to publish the account of the discovery. He was born in 1782, was a surgeon in the United States Army in 1812, and died in 1848.

From an account given by D. B. Smith, of Philadelphia, in the "Journal of the College of Pharmacy"* in 1832, there can be little doubt that the liquid first made by Guthrie was a fairly pure chloroform. He describes it in the following words: "The action of this ether on the living system is interesting, and may hereafter render it an object of importance in commerce. Its flavour is delicious, and its intoxicating properties equal to or surpassing those of alcohol." In 1834, Dumas examined the liquid as prepared by Soubeiran, and declared that he had not obtained it pure, and further, that Liebig had made an error in its composition. On further research, Dumas gave the liquid the name of "chloroform," and first worked out the real formula, C_2HCl_3 (or, using the present system of atomic weights, CHCl_3).

Although its narcotising properties were known to some extent, no one who used it at that time seems to have conceived the idea of fully testing its properties. In 1831, Ives, of Newhaven, treated a case of difficult respiration by actual inhalation of the vapour, and published the facts in "Silliman's Journal" in January, 1832. Four

Previous
use of
chloroform
in medical
practice

* Now the "American Journal of Pharmacy"



DAVID WALDIE

years later, Dr. Formby, of Liverpool, prescribed it in hysteria, and Tuson, of London, employed it in the treatment of cancer and neuralgia in 1844.

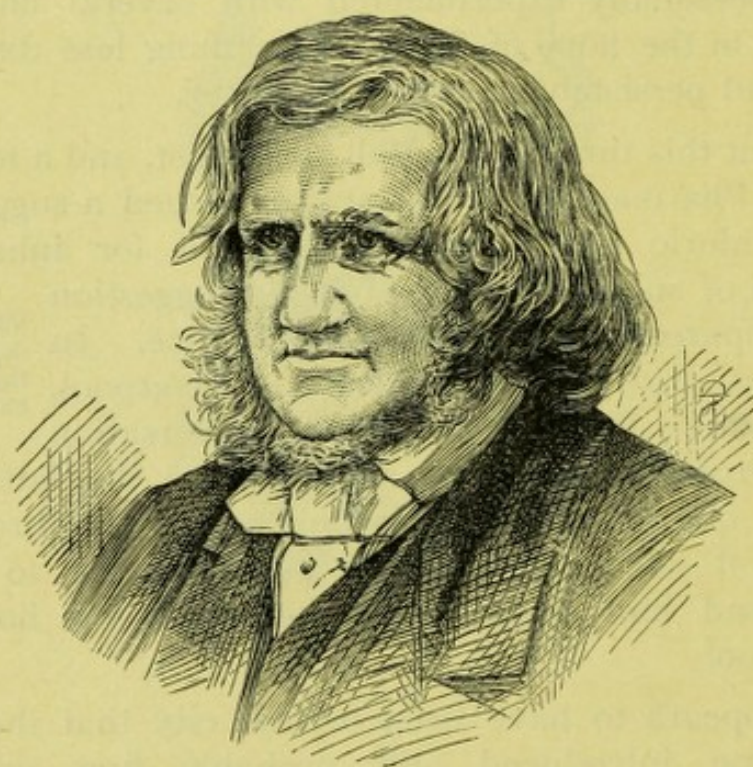
The fact that one or two deaths had been attributed to the use of ether about this time, caused many workers to make a search for other agents with similar properties. Foremost among these investigators was Dr. James Young Simpson, Professor of Midwifery in the University of Edinburgh, who personally experimented with several chemical liquids in the hope of finding something less disagreeable and persistent in smell than ether.

Simpson's
investiga-
tions

About this time, Jacob Bell, a chemist, and a founder of the Pharmaceutical Society, published a suggestion that chloric ether should be used for inhalation instead of sulphuric ether; but his suggestion was apparently never put into practice. In October, 1847, Waldie, a chemist of Liverpool, was visiting Edinburgh, and in conversation with Professor Simpson, suggested to the latter the use of chloroform. He recommended the Professor to try it as an anæsthetic, and promised to make and send him some on his return to his home in Liverpool.

Waldie
suggests
the use of
chloroform

It appears to have been in that city that the drug was first introduced and probably first used in England as a medicinal agent. Waldie states that about the year 1838 a prescription was brought to the Apothecaries' Hall, Liverpool (where he held the position of manager), of which one of the ingredients was chloric ether. The preparation was at that time apparently not known in this country, for Dr. Brett, the chemist of the Company, specially prepared some from the formula he found in the United States Dispensatory. Its properties pleased some of the medical men, particularly Dr. Formby, by whom it was introduced into local practice. Waldie, finding that the preparation was not uniform in strength, improved the



JAMES YOUNG SIMPSON

process by separating and purifying the chloroform, and dissolving it in pure spirit, by which a product of sweet flavour was obtained.

There seems little doubt that Waldie was the first to suggest the use of chloroform, as an anæsthetic, to Professor Simpson, who at once resolved to try it by experimenting on himself and his assistants. He made the first experiment in his own house on November 4th, 1847, and in a letter written to Waldie thus describes the event: "I am sure you will be delighted to see part of the good results of our hasty conversation. I had the chloroform for several days in the house before trying it, as, after seeing it such a heavy, unvolatile-like liquid, I despaired of it, and went on dreaming about others. The first night we took it, Dr. Duncan, Dr. Keith and I all tried it simultaneously, and were all 'under the table' in a minute or two." Professor Miller, who was a neighbour of Simpson's, used to come every morning to see if the experimenters had survived! He describes how, "after a weary day's labour, Simpson and his assistants sat down and inhaled various drugs out of tumblers, as was their custom. Chloroform was searched for and found beneath a heap of waste paper, and with each tumbler newly charged the inhalers resumed their occupation. . . . A moment more, then all was quiet; then a crash. On awakening, Simpson's first perception was mental. 'This is far stronger and better than ether' said he to himself. His second was to note that he was prostrate on the floor, and that among the friends about him there was both confusion and alarm. Of his assistants, Dr. Duncan he saw snoring heavily, and Dr. Keith kicking violently at the table above him. They made several more trials of it on that eventful evening, and were so satisfied with the results that the festivities did not terminate until a late hour."

On the eve
of the great
discovery

On November 10th, 1847, Simpson communicated his discovery to the Medico-Chirurgical Society of

Edinburgh, in a paper entitled, "Notice of a new anæsthetic agent as a substitute for sulphuric ether." A day or two afterwards an arrangement was made with Simpson to administer the new anæsthetic to a patient who was about to be operated upon, but, owing to some cause, he was unable to be present. The operation went on without him, and the patient died on the first incision of the knife. Simpson's absence was providential indeed, for it saved the reputation of chloroform at the outset. On November 15th, chloroform was used for the first time in a surgical operation in the Edinburgh Royal Infirmary. Simpson
achieves
success Three patients were operated on successfully under its influence. One, who was a soldier, was so delighted with the effect that, on awaking after the operation, he is said to have seized the sponge with which administration had been made, and, thrusting it into his mouth, again resumed inhalation more vigorously than before.

To Simpson, there is no doubt, belongs the merit of having made anæsthesia triumph over all the opposition, which was at first, actively, offered to its use. For this he well deserved the rewards which fell upon him in the evening of his life.

Among those who aided in the establishment of the use of anæsthetics, mention must be made of the work of John Snow, who by his researches placed the practice on a scientific basis.

The advent of chloroform gave an impetus to other investigators in the field of anæsthesia, and during the last fifty years many other bodies have been introduced and tried with more or less success for the same purpose. Methyl chloride, which was discovered by Dumas and Peligot, was introduced by Deboe in 1887, who used it extensively in local affections. In 1867, Sir B. W. Richardson introduced methyl bichloride or methylene [methylene dichloride]. He formed a very high estimate of its properties as a good

general anæsthetic, and said he preferred it for many reasons to chloroform, as he found that the anæsthetic sleep was produced more quickly and was more prolonged.

Sir T. Spencer Wells also advocated its use, and stated, in 1872, that it had fewer drawbacks than any then known anæsthetic. Tetra-chloride of methyn [carbon tetrachloride], which much resembles chloroform, was discovered by Regnault in 1839, and its anæsthetic properties were first made known by Sansom and Harley in 1864. Simpson was of the opinion that it had a more depressing effect upon the heart than chloroform, and was more dangerous generally as an anæsthetic.

Nunneley, of Leeds, also contributed work of value in this department of research, and introduced ethyl bromide and chloride of carbon. He dispelled the idea, long prevalent, that anæsthetics could be found only in a limited class of chemical compounds.

Among other substances which have been introduced during the last twenty-five years, but which, owing to one defect or another, have since been practically abandoned, mention should be made of butylic hydride [butane], ethylene, amylene, ethyl nitrate, aldehyde (introduced by Poggiale), carbon bisulphide, ethidene dichloride [ethylene dichloride] (discovered by Regnault and first used as an anæsthetic by Snow), and ethyl bromide, first prepared by Serullus in 1827.

LOCAL ANÆSTHETICS

Local anæsthesia, already alluded to as probably the earliest form of numbing sensibility to pain, was practised in antient times by the inunction of various narcotics, but after the seventeenth century the practice seems to have almost entirely gone out of use. The latter end of the nineteenth century, however, marks a new era in this department.

On September 15th, 1884, considerable interest was

aroused by a communication made at the Ophthalmological Congress at Heidelberg, by Karl Koller, of Vienna, in which he demonstrated the effects of cocaine as a local anæsthetic.

The alkaloid now known as cocaine was isolated by Gädcke, from the leaves of the *Erythroxylon Coca* as far back as 1855. He called it ethroxylene. Four years later a further investigation of the plant was made by Nieman, who noticed that the leaves produced a numbness of the tongue; and in 1874 Hughes Bennett demonstrated that cocaine possessed anæsthetic properties. In 1880, Von Anrep, who made a careful investigation of the drug, hinted that the alkaloid might be of use in general surgery as a local anæsthetic, and Koller undertook a series of experiments on animals in the laboratory of Professor Stricker, in which he found that complete anæsthesia of the eye, lasting, on an average, ten minutes, followed the introduction of a two per cent. solution of the alkaloid.

The immense value of such an anæsthetic in ophthalmic operations was universally recognised, and it at once came into general use. In painful conditions of mucous surfaces, and for minor operations, cocaine has been found of great service, and as a local anæsthetic it has a large field of usefulness. Since the introduction of cocaine, other substances have been brought forward, which, after extensive trials, have proved to be of real clinical value. Of these may be mentioned eucaine, a synthetic product (benzoyl-vinyl-diaceton-alkamine) discovered by Merling, and first studied by Vinci in Liebreich's laboratory. Of the two forms of this drug used, which are known as A and B, the latter was soon found to be the only one suitable for producing local anæsthesia. Its properties are similar to those of cocaine, with the exception that it produces no vaso-constriction, and it is claimed that it is equal in anæsthetic power, while its toxicity is very much less.

The discovery of Cocaine

Stovaine, or benzoyl-ethyl-dimethylaminopropanol hydrochloride, more recently introduced, is a synthetic product elaborated by Fourneau, and derived from tertiary amyl alcohol. It is much less toxic than cocaine, but its comparative value still remains to be proved by further trial. Tropicaine, a drug closely allied to cocaine, and derived from the leaves of the Java coca plant, has recently been much used in Germany, but it does not appear to possess any advantages over cocaine or eucaine.

Stovaine
and Tropa-
cocaine

Novocaine, or para-amido-benzoyl-diethylaminoethanol hydrochloride, has lately been found to possess satisfactory properties as a local anæsthetic in dental operations. It is said to be free from the toxic and local irritant action common to other local anæsthetics.

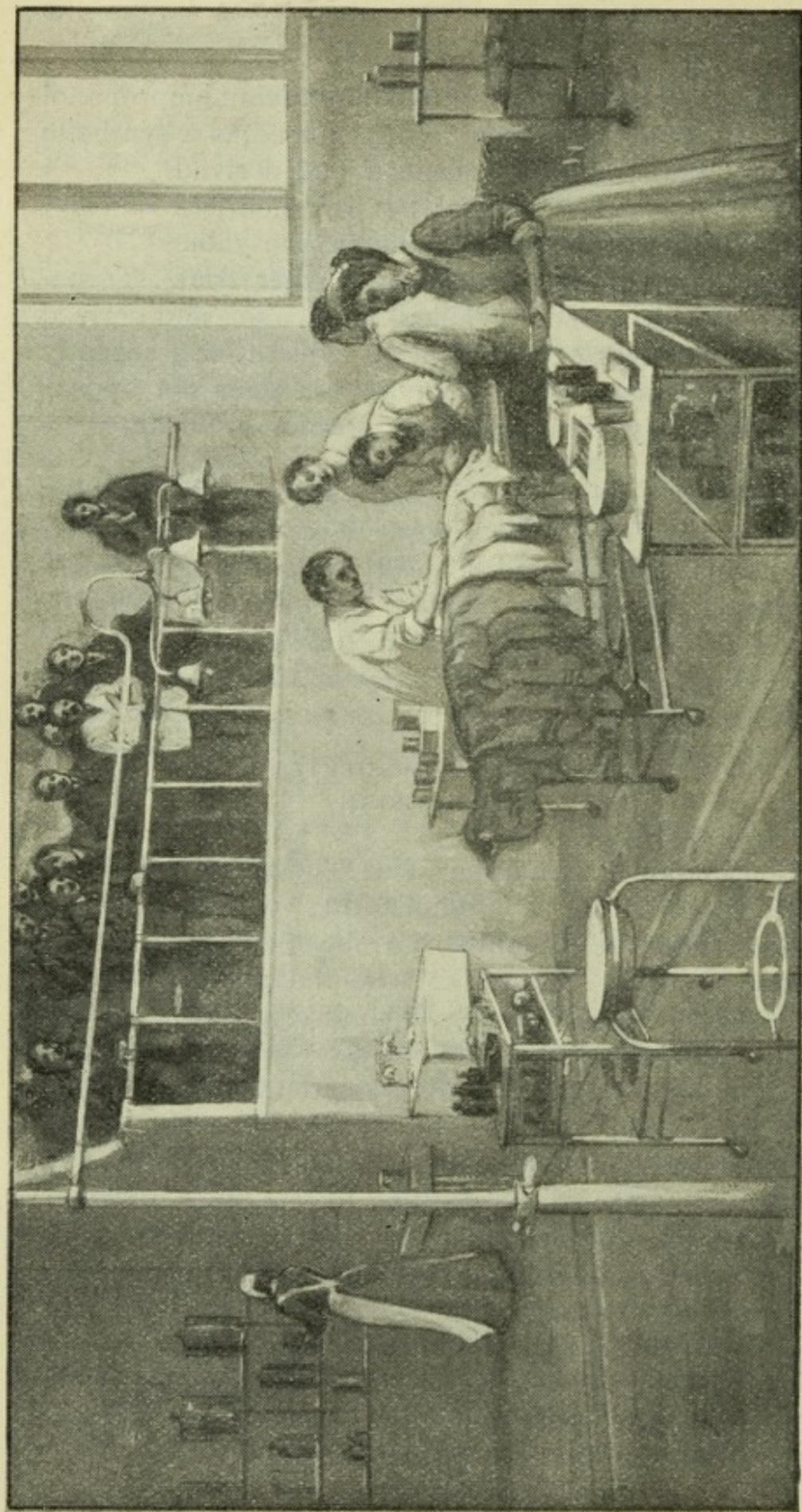
THE NECESSITY FOR ABSOLUTE PURITY IN CHLOROFORM

Considerable attention has been directed to different methods of administering chloroform, and various forms of apparatus have been devised which claim to reduce to a minimum the dangers of anæsthesia. Assuming a most skilled and competent administrator, an ideal method of administration, and a suitable patient, an unsatisfactory result can only be attributed to the chloroform employed. Purity of chloroform is a most important factor in contributing to safe anæsthesia. The physician claims that absolute purity shall characterise all medicinal agents, and the justice of the claim is acknowledged by the trend of recent legislation. Purity is a prime essential of any anæsthetic. The presence of impurities largely increases the risk inseparable from the use of chloroform. The train of symptoms observed during the normal process

Adminis-
tration of
Chloroform

Purity an
essential

Danger of
impurities



AN OPERATION IN THE TWENTIETH CENTURY

of anæsthesia may be masked and altered, and dangerous results may supervene under the most competent, careful and observant administrator.

That some of the chloroform offered to the profession may reasonably be regarded with suspicion is evidenced by the words of a prominent obstetrician, based on the experience of 40 years in the use of chloroform; this authority expresses himself as follows: "I may say I fear the chloroform in common use is often far from being as pure as it should be, and is sometimes very defective in this respect."

Expert
testimony

Impurities may result from the process of manufacture, or from decomposition. Conspicuous amongst these undesirable elements are chlorine, hydrochloric acid and carbonyl chloride (phosgene), which irritate the lining membrane of the respiratory tract and interfere with the normal process of respiration. Such irritation may result in arrest of cardiac action or may produce a severe form of bronchitis. It is obviously of great importance that chloroform should be free from irritating properties, that the respiratory passages should not be obstructed, and that during anæsthesia the breathing and the circulation should approximate the normal. Superadded to these results, produced by local irritation, is the effect of other impurities which exert their action after absorption. These latter markedly increase the cardiac depression which has been shown to follow the administration of pure chloroform. Such an action is difficult of detection, and is, probably, in large degree responsible for a considerable number of the accidents reported.

Effects of
impurities

Of recent years increased knowledge has elaborated exact tests, which ensure the absence of these impurities. Nevertheless, anæsthetists of wide experience have obtained results which could not be reconciled with the use of pure chloroform. It has been observed that

different chloroforms, all of which answer the official tests for purity, give effects which are difficult to harmonise, and the interpretation of which only appears satisfactory on the assumption that the chloroforms differ in composition. Whilst one chloroform acts most satisfactorily, another produces, during the early stages of administration, a marked excitement and an irregularity of breathing, which prolongs the period of induction. Further investigation has therefore been deemed necessary, and a comprehensive and careful research has elucidated the cause of these hitherto unexplained phenomena (Wade and Finnemore, "Journal of the Chemical Society," 1904, 85, 938). In the chloroforms which produced anæsthesia in a satisfactory manner, has been demonstrated the presence of ethyl chloride in minute and varying quantities. When the undesirable effects were noted, no ethyl chloride was detected in the anæsthetic. A physiological test conclusively proved that ethyl chloride was the factor which determined these differences.

A chloroform which had previously given undesirable effects, and in which the presence of ethyl chloride could not be demonstrated, was modified so as to contain a small proportion of the latter. The chloroform then proved a most satisfactory anæsthetic, and there was entire absence of the excitement and respiratory irregularity previously observed. The results of this research are of the utmost value. In the initial stages of the induction of chloroform anæsthesia, the presence of a small quantity of ethyl chloride has a beneficial effect, leading to the absence of mental excitement, and steadies the breathing. The respiration is stimulated and becomes regular and deep. In these circumstances, satisfactory anæsthesia is induced with rapidity and ease.

A CHRONOLOGICAL TABLE OF CHIEF EVENTS AND DISCOVERIES IN THE HISTORY OF ANÆSTHESIA

NITROUS OXIDE

Joseph Priestley	...	...	...	...	...	1776
Humphry Davy	1800
Horace Wells (Colton, Riggs, Evans, Best)	...					1844

ALCOHOL

Collier	1835-42
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ETHER

Michael Faraday	1818
W. E. Clarke	1839
Crawford W. Long	1842
E. E. Marcy	1844
W. T. G. Morton	...	...	...	...	...	1846
Charles T. Jackson	...	...	...	...	...	1846
First surgical operation in America	October 16, 1846					
First surgical operation in Great Britain,	December 21, 1846					
(Warren, Hayward, Bigelow, Boote, Robinson, Liston, Buchanan, Louget, Snow, Simpson, Bernard, Clover)						

CHLOROFORM

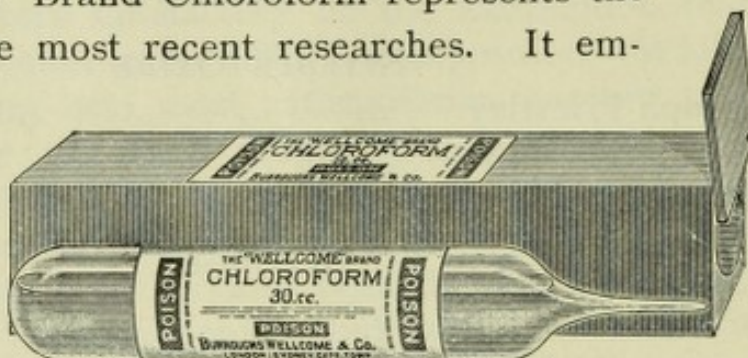
Guthrie	...	...	...	...	...	1831
Waldie	...	...	...	...	...	1847
James Young Simpson	...	...	...	...	...	1847
First surgical operation under chloroform,	in Edinburgh, November 15, 1847					
(Soubeiran, Liebig, Dumas, Flourens, M. Duncan, G. Keith, Snow, Nunneley, James Arnott)						

COCAINE

Gädeke	...	...	...	...	...	1855
Hughes Bennett	...	...	...	...	...	1874
Von Anrep	...	...	...	...	...	1880
Koller	...	...	...	...	...	1884

'WELLCOME' BRAND CHLOROFORM

'Wellcome' Brand Chloroform represents the results of the most recent researches. It embodies the essentials of purity and uniformity, the necessary basis of a satisfactory chloro-



'Wellcome' Brand Chloroform, 30 c.c., in hermetically-sealed tube. Length of tube, $5\frac{1}{4}$ in.

Ethyl
chloride

depending on the occurrence in the preparation of a small and varying quantity of ethyl chloride. 'Wellcome' Brand Chloroform is of constant composition and gives uniform effects. It conforms in

Conforms
to B.P.

every respect to the requirements of the B.P., and contains a small and definite proportion of ethyl chloride, which has been found to assist the satisfactory induction of anæsthesia.

'Wellcome' Brand Chloroform is the result of prolonged laboratory experiment and careful clinical observation.

Proved
value

Its reception by the profession verifies the theory upon which its production is based. It has been largely used in hospital and in private practice, and with gratifying results. Reports



'Wellcome' Brand Chloroform, in $\frac{1}{4}$ -lb. dropping bottle. Height of bottle, 5 in.

'WELLCOME' BRAND CHLOROFORM—*continued*

from most experienced anæsthetists agree in regarding 'Wellcome' Brand Chloroform as a distinct advance. Its constancy in composition gives confidence in administration, and its freedom from irritating and depressant principles removes the source of many of the accidents which have hitherto been regarded as grave objections to the employment of chloroform as an anæsthetic.

Confidence
in adminis-
tration

'Wellcome' Brand Chloroform is issued in 2 oz., $\frac{1}{4}$ lb., $\frac{1}{2}$ lb. and 1 lb. amber-coloured bottles; also in 30 c.c. and 60 c.c. hermetically-sealed tubes, as illustrated on the previous page.

'WELLCOME' BRAND ETHER

'Wellcome' Brand Ether is prepared specially for anæsthesia and is thoroughly pure and reliable. When the administration of ether is desired, this product will be found eminently suitable.

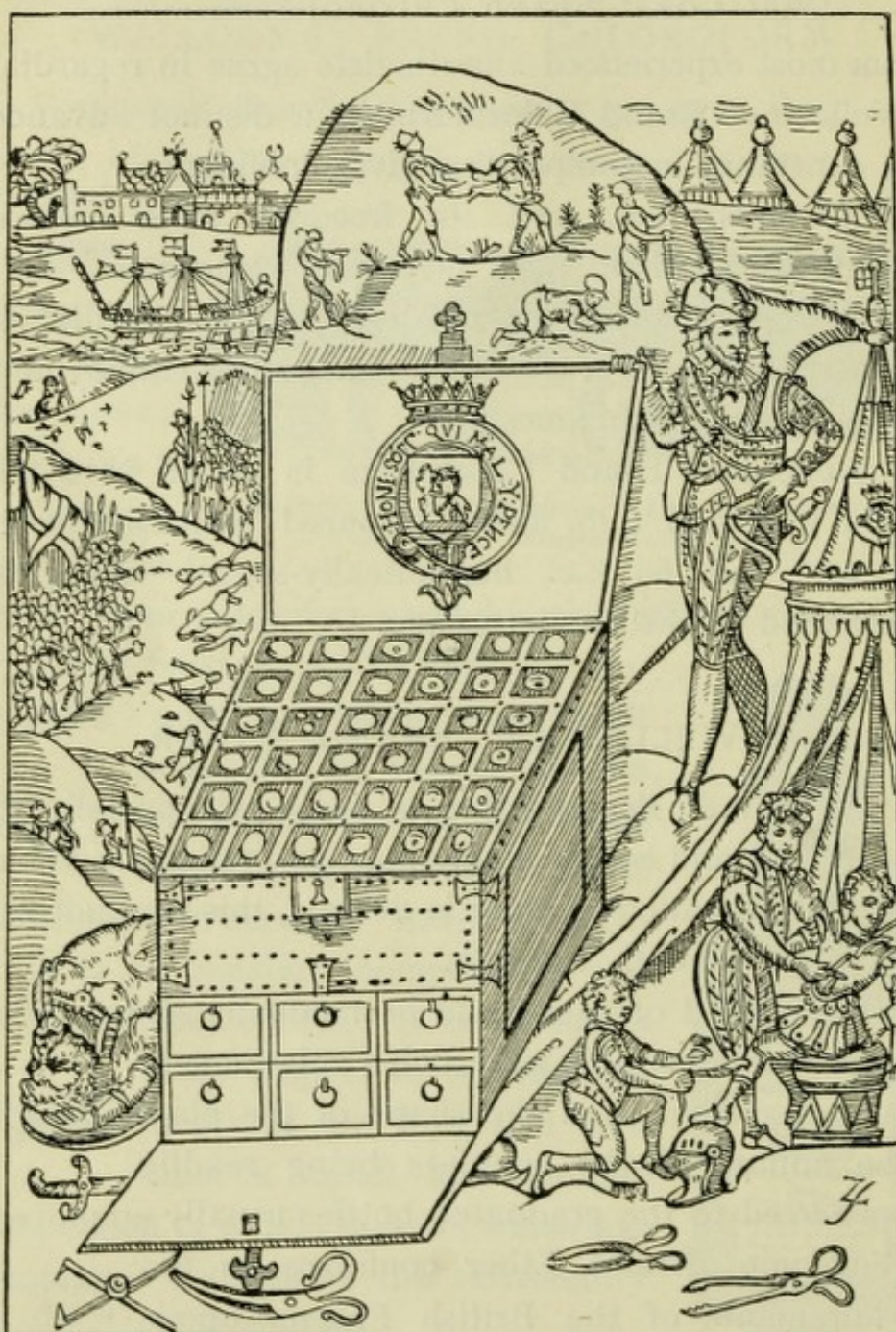
The method of packing in hermetically-sealed tubes is especially desirable with such a volatile substance as ether, and the shape of the glass tube admits of the contents being readily transferred to the graduated bottles usually employed. 'Wellcome' Brand Ether conforms to the requirements of the British Pharmacopœia for *Æther Purificatus*, and has a specific gravity of 0.720.

Ideal
packing

Conforms
to B.P.

'Wellcome' Brand Ether is issued in hermetically-sealed tubes containing 30 c.c. and 60 c.c., similar to the Chloroform packing illustrated on the previous page.

The anæsthetics issued under the 'Wellcome' Brand denote the highest degree of perfection and purity.



MILITARY MEDICINE CHEST—1588

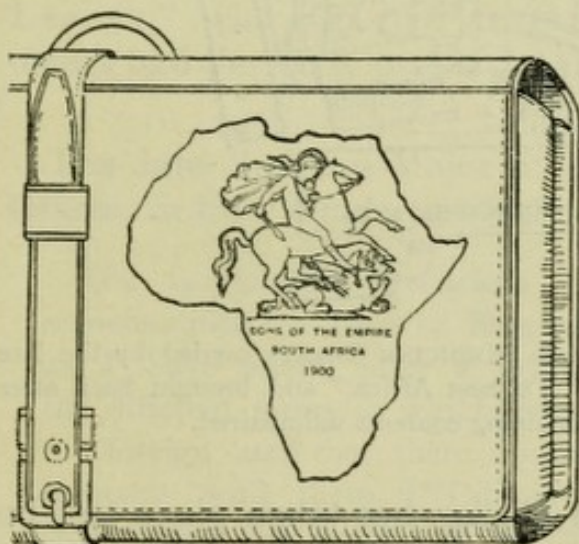
Fabricius, a noted Swiss physician of the XVI. century, recommended that the military chest should be furnished with no less than 362 varieties of medicine, some of which contained as many as 64 ingredients. The complexity of arrangement, the huge bulk and great weight, the liability to breakage, and the complicated inconvenience of medicine chests persisted until the introduction of 'Tabloid' Medical Equipments.

HISTORICAL MEDICAL EQUIPMENTS

THE medicine chests and cases used by explorers and missionaries possess a unique interest of the most intimate and personal kind; whilst those which have formed the medical equipments of military expeditions, and have been the armamentaria employed to combat sickness and death in the field, naturally appeal strongly to physicians.

The conditions under which these equipments have necessarily been employed, combining rough usage and exposure (in some cases for years) to every variety of climate, form the severest tests to which it is possible for medicines and medicine cases to be subjected.

Severe
Tests



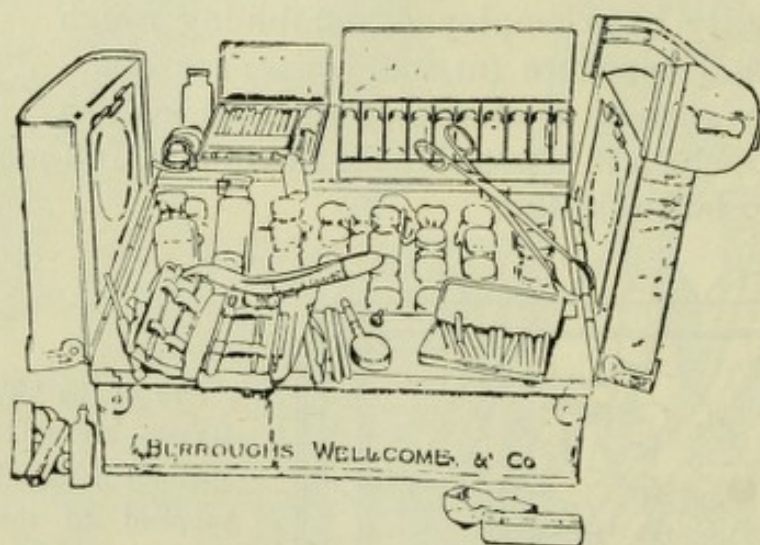
One of the 'TABLOID' BRAND MEDICINE CASES specially designed for and supplied to the troops from the various British Colonies, for use in the South African Campaign.

The explorer's knowledge of the ravages wrought by disease and death in early expeditions, the medical equipments of which were inadequate, unsuitable, or lacking in portability and permanence, has caused him to appreciate the portable 'Tabloid' outfits which contain medicines of proved keeping qualities. Early explorers, particularly in Africa, found the difficulties of procuring suitable portable medical supplies practically insuperable, and the horrors of disease and death associated with their expeditions were almost beyond description.

Difficulties
of early
Explorers

Early
Expeditions.
Mortality
due to crude
Medicines

When I think [said the late Sir H. M. STANLEY, in the course of one of his lectures] of the dreadful mortality of Capt. TUCKEY's expedition in 1816, of the NIGER Expedition in 1841, of the sufferings of BURTON and SPEKE, and of my own first two expeditions, I am amazed to find that much of the mortality and sickness was due to the crude way in which medicines were supplied to travellers. The very recollection causes me to shudder.



One of the 'TABLOID' BRAND MEDICINE CHESTS carried by the late Sir H. M. STANLEY through "Darkest Africa," and brought back after three years' journey with the remaining contents unimpaired.

That a very marked change has taken place can be gathered from a more recent speech of this eminent explorer, in which he said:—

In my early expeditions into Africa, there was one secret wish which endured with me always, and that was to ameliorate the miseries of African explorers. How it was to be done I knew not; who was to do it, I did not know. But I made the acquaintance of Messrs. BURROUGHS WELLCOME & Co. As soon as I came in sight of their preparations and their works, I found the consummation of my secret wish. On my later expeditions I had all the medicines that were required for my black men, as well as my white men, beautifully prepared, and in most

B. W. & Co.
solved the
Problem

elegant fashion arranged in the smallest medicine chest it was ever my lot to carry into Africa.

In his books, "Founding the Congo Free State" and "In Darkest Africa," Sir H. M. STANLEY wrote in the very highest terms of 'Tabloid' Medical Equipments.

Amongst other cases used during STANLEY's travels, is the famous "Rear Guard" 'Tabloid' Medicine Chest, which remained in the swampy forest regions of the Aruwhimi for nearly four years, and more than once was actually submerged in the river. When it was brought back to London, the remaining contents were tested by the official analyst of "THE LANCET," who reported that the 'Tabloid' Medicaments had perfectly preserved their efficacy.

Contents of
Stanley's
"Rear
Guard"
Chest
tested by
"The
Lancet"

The late Surgeon-Major PARKE, Stanley's Medical Officer, in his "Guide to Health in Africa," writes:—

The medicinal preparations which I have throughout recommended are those of BURROUGHS WELLCOME & CO., as I have found, after a varied experience of the different forms in which drugs are prepared for foreign use, that there are none which can compare with them ['Tabloid' products] for convenience of portability in transit, and for unfailing reliability in strength of doses after prolonged exposure.

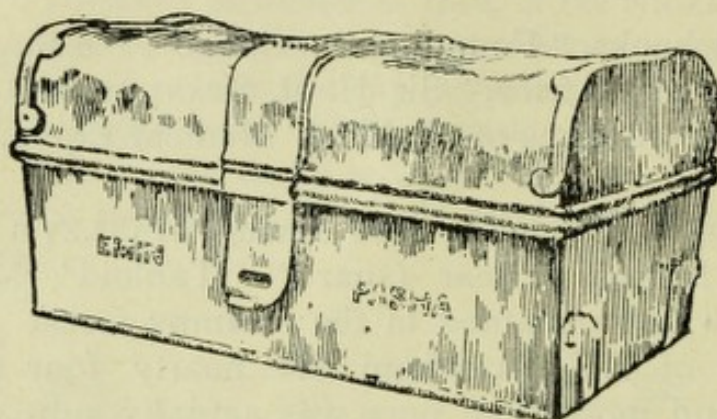
"None can
compare for
unfailing
Reliability,
Portability
and Con-
venience"

At this point it is of interest to turn to the 'Tabloid' Medicine Chest, here illustrated, which was discovered near Kenia, in the Aruwhimi Dwarf Country.

It was the last case supplied to EMIN PASHA, GORDON'S Governor of the Equatorial Sudan. It was taken by Arabs when he was massacred in 1892, and was recaptured by BARON DHANIS, commandant of the Congo Free State troops, after the battle of Kasongo. This chest was subsequently stolen by natives, and

Emin Pasha

finally recovered by an officer of the Congo Free State, and returned to BURROUGHS WELLCOME & Co.



EMIN PASHA'S 'TABLOID' BRAND MEDICINE CHEST

The following is a copy of Emin Pasha's letter written to BURROUGHS WELLCOME & Co., on receiving the chest:—

Gentlemen,—I found the medicine chest you forwarded me fully stocked. I need not tell you that its very completeness made bound my heart. Articles like those could not be made but at the hand of the greatest artists in their own department. If any one relieved from intense pain pours out his blessings, they will come home to you.

I should like to expatiate somewhat longer on the intrinsic value, but sickness preventing me to do so. I wish you to believe me,

Yours very faithfully

Dr Emin Pasha

A history of all the 'Tabloid' Equipments associated with African exploration would, of itself, make a large volume, and it is only possible to make brief mention of a few other instances of their use.

That 'TABLOID' EQUIPMENTS excel for military purposes has been abundantly demonstrated during various British and foreign military campaigns. The following is an extract from the Official Government Report, made by the CHIEF MEDICAL OFFICER of the recent BRITISH

Military
Expeditions

MILITARY EXPEDITION to ASHANTI, on the 'Tabloid' Brand Medical Equipment which was supplied by BURROUGHS WELLCOME & Co.:—

The supply of medicines, both as to quality and quantity, left nothing to be desired. There was no scarcity of anything. The 'Tabloid' medicines were found to be most convenient and of excellent quality. To be able to take out at once the required dose of any medicine, without having to weigh or measure it, is a convenience that cannot be expressed in words. Time is saved to an extent that can hardly be realised, and so is space, for a fitted dispensary, or even a dispensary table is unnecessary. The quality of medicines was so good that no other should be taken into the field. The cases supplied are almost ideal ones for the Government. They are light yet strong, and the arrangement of the materials and medicines is as nearly perfect as possible.

Required dose at once. No delay to weigh or measure

"Quality so good, no other should be taken into the field"

It is instructive to compare the experience of this expedition with that of the WOLSELEY ASHANTI EXPEDITION of 1873, fitted out according to old-time methods. The suffering and loss of life were then terrible, for want of suitable medical equipments.

Without exception, 'Tabloid' Medical Equipments have been used in all the campaigns of the last twenty-five years, and have played an important part in combating the diseases which seem inseparable from an army in the field.

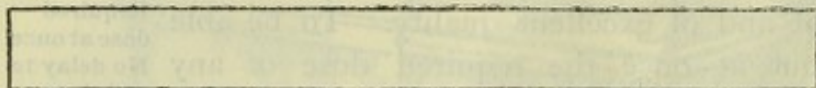
During the American war with Spain, in Cuba and the Philippines, 'Tabloid' Medical Equipments were specially ordered for, and used by, the U.S. Army and Navy.

The expedition which, under the command of LORD KITCHENER, defeated the Khalifa and reconquered the Sudan, was supplied with 'Tabloid' Medical Equipments.

An illustration of one of the 'Tabloid' Medical Equipments specially designed for, and supplied to,



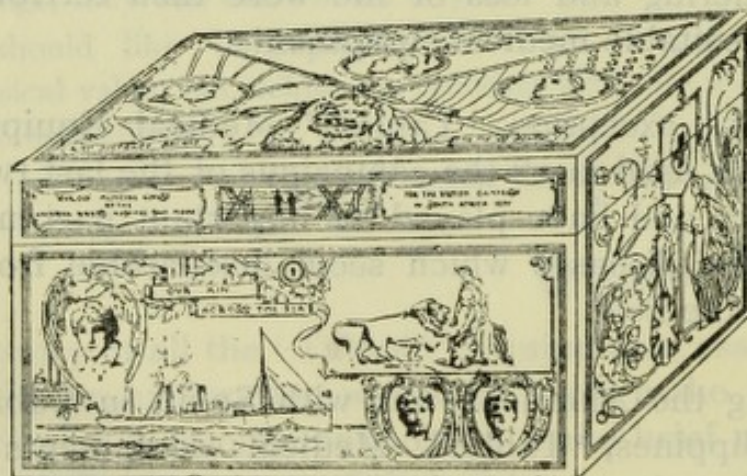
Size of one product of 'Tabloid'
Cinchona Tincture, min. 30



Length of 30 min. tube of same
diameter as 'Tabloid' product

the British Colonial Forces for use in the recent South African Campaign will be found on page 73. Similar cases were designed for, and supplied to, the CITY OF LONDON IMPERIAL VOLUNTEERS and the IMPERIAL YEOMANRY.

The equipment of the AMERICAN HOSPITAL SHIP
Hospital Ship
"Maine" "MAINE," and the valuable services it rendered in connection with the campaigns in South Africa and in China, are so recent as to be within the memory of all. The whole of the medical outfit was supplied by BURROUGHS WELLCOME & Co.



One of the 'TABLOID' BRAND MEDICINE CHESTS specially designed for and supplied to the Hospital Ship "Maine."

Referring to this equipment, "THE LANCET" reported:—

The whole of the medical outfit has been supplied by Messrs. Burroughs Wellcome & Co. One of the medicine

chests supplied by this firm is in tooled leather, designed by Mr. Henry S. Wellcome.

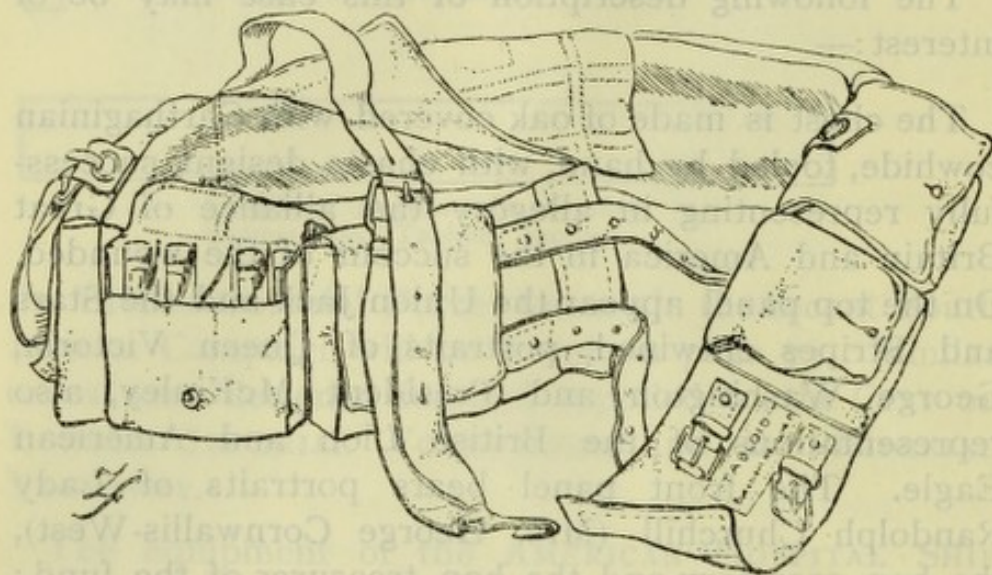
The following description of this case may be of interest:—

The chest is made of oak covered with Carthaginian cowhide, tooled by hand, with chaste designs successfully representing in allegory the alliance of Great Britain and America in the succour of the wounded. On the top panel appear the Union Jack and the Stars and Stripes entwined, portraits of Queen Victoria, George Washington and President McKinley, also representations of the British Lion and American Eagle. The front panel bears portraits of Lady Randolph Churchill (Mrs. George Cornwallis-West), the hon. secretary and the hon. treasurer of the fund; a picture of the ship itself; a scene representing the British Lion, wounded by an arrow which lies at his side, being ministered to by Britannia and Columbia. A frieze is formed by a representation of an American Indian wampum, upon which Brother Jonathan and John Bull are depicted hand-in-hand. The panel at each end of the chest represents Britannia and Columbia supporting a banner bearing the Red Cross, and on the panel at the back, the British Regular and Colonial Lancers are shown charging a Boer force. Keble's line, "No distance breaks the tie of blood," and Bayard's phrase, "Our kin across the sea," are inscribed on the chest. This beautiful cabinet contains a number of smaller cases fitted with 'Tabloid' and 'Soloid' products and 'Tabloid' Hypodermic Outfits, and is in itself a compact and complete dispensary.

In the hitherto unsuccessful endeavours to reach the Poles, and in the exploration of Arctic and Antarctic lands, 'Tabloid' Medicine Chests have taken a pioneer position, and continue to hold supremacy.

Arctic
Explora-
tion

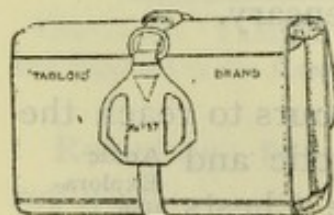
The 'Tabloid' belts and other Medical Equipments supplied to NANSEN for his journey in the "FRAM," and those used by the JACKSON-HARMSWORTH ARCTIC



One of the 'TABLOID' BRAND MEDICINE BELTS carried by NANSEN on his Arctic Expedition.

EXPEDITION, are now added to the historic collection of BURROUGHS WELLCOME & Co.

The ITALIAN ARCTIC EXPEDITION, commanded by the DUKE OF THE ABRUZZI, found that, despite the fact that the northern latitude of 86° 33' 49" was reached, the 'Tabloid' Medicine Chests and Cases with which the expedition was equipped have been brought back with their remaining contents quite unaffected by the rigour of the climate.

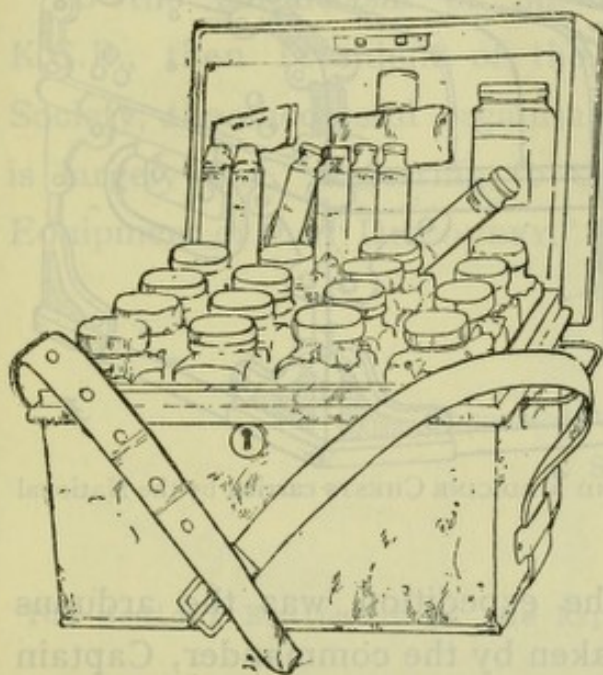


One of the 'TABLOID' BRAND MEDICINE CASES carried by the DUKE OF THE ABRUZZI's Polar Expedition.

COMMANDER PEARY, to whose credit stands the

achievement of reaching the record northern latitude, writing from Etah, Greenland, reports:—

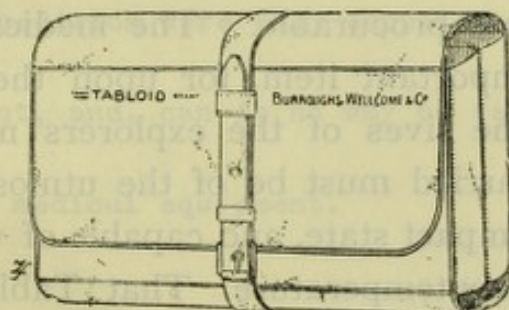
Burroughs Wellcome & Co. 'Tabloid' Medicine Cases and supplies have proven invaluable.



One of the 'TABLOID'
BRAND MEDICINE
CHESTS used by COM-
MANDER R. E. PEARY

The entire medical outfit of the National Antarctic Expedition was furnished by Burroughs Wellcome & Co., and on the return of the "DISCOVERY," with the members of the expedition on board, the medical officer made a highly satisfactory report on the 'Tabloid' Medical Equipment.

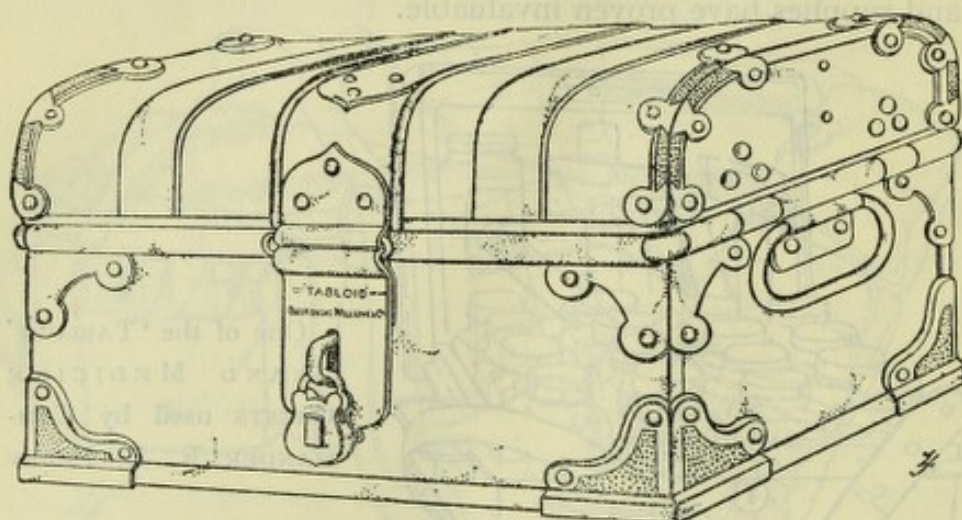
In August, 1901, the "DISCOVERY" left England, and



One of the 'TABLOID' BRAND MEDICINE CASES carried by the National Antarctic Expedition.

in the following January crossed the limit of the Antarctic Circle. Having passed the farthest east-

ward point attained by Ross sixty years before, the explorers discovered a new land, which they named King Edward VII Land. One of the most note-



One of the 'TABLOID' BRAND MEDICINE CHESTS carried by the National Antarctic Expedition.

worthy features of the expedition was the arduous sledge journey undertaken by the commander, Captain SCOTT, accompanied by Dr. WILSON and Lieutenant SHACKELTON. This journey over the ice occupied three months, and the record latitude of $82^{\circ} 17'$ South was reached.

On sledge journeys the question of weight is of great moment. The traveller, on such occasions, must carry but the barest necessities, and of these the lightest procurable. The medicine chest is an important item, for upon the efficacy of its contents the lives of the explorers may depend. Every drug carried must be of the utmost reliability, in the most compact state, and capable of withstanding an extremely low temperature. That 'Tabloid' Medical Equipments fulfil all requirements has been proved again and again. They enable the traveller to carry a comparatively large supply of medicines, and may be used under conditions which would render the

Reliability
essential

carriage and administration of ordinary preparations impossible.

To the enthusiasm of Sir CLEMENTS MARKHAM, K.C.B., then President of the Royal Geographical Society, the successful organisation of the expedition is largely due. Referring to the 'Tabloid' Medical Equipment of the "DISCOVERY," he reports:—

National Antarctic Expedition.

1, Savile Row,

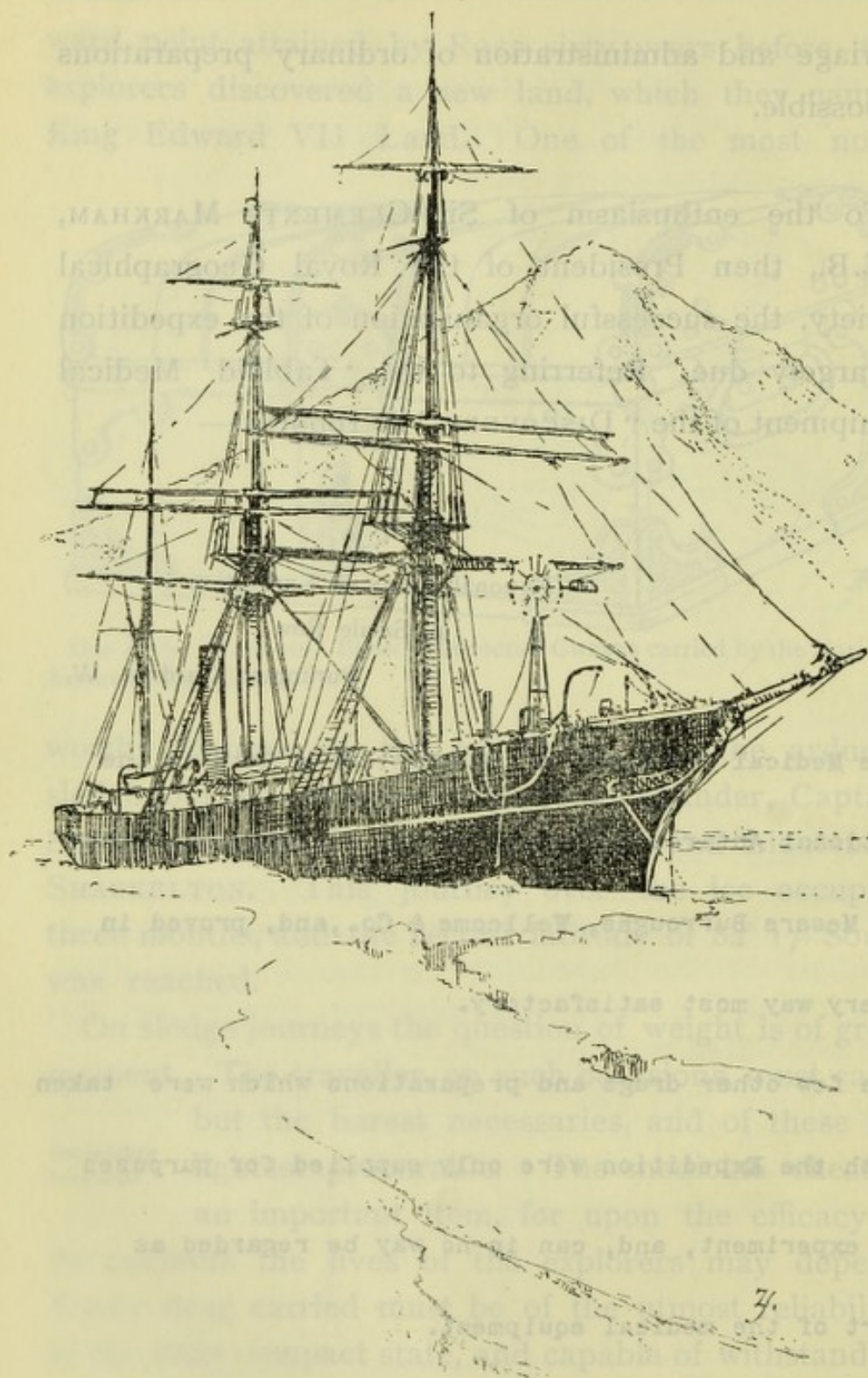
Burlington Gardens, W.

The Medical Equipment of the Exploring Ship of the National Antarctic Expedition was entirely supplied by Messrs Burroughs, Wellcome & Co., and, proved in every way most satisfactory.

The few other drugs and preparations which were taken with the Expedition were only supplied for purposes of experiment, and, can in no way be regarded as part of the medical equipment.

Clements Markham

27. April 1905



S.S. "DISCOVERY"

NATIONAL ANTARCTIC EXPEDITION

The entire medical equipment of this expedition was
furnished by Burroughs Wellcome & Co.

DR. KÆTTLITZ, the Senior Medical Officer to the expedition, reports:—

“DISCOVERY” ANTARCTIC EXPEDITION.

The Medical Equipment of the “Discovery” Exploring Ship, of the National Antarctic Expedition, was entirely supplied by Messrs. Burroughs Wellcome & Co., mostly in the form of ‘Tabloid,’ ‘Soloid’ and ‘Enule’ preparations.

The preparations proved, in every way, most satisfactory, and there was no deterioration of any of them in spite of the conditions of climate and temperature to which they were exposed. The few other drugs and preparations which were taken with the expedition were only taken for purposes of experiment.

The cases supplied by Burroughs Wellcome & Co. to us have also been found satisfactory, the small leather one was very useful upon sledge journeys, being light and compact. The No. 250 ‘Tabloid’ Case was used for some weeks at the camp eleven miles north of the ship, when the whole ship’s company was engaged in sawing and blasting the ice, and it was found very convenient.

The other cases were useful in our cabins, etc., for a handy supply.

Reinhold Kættitz

The relief ship “MORNING” was also provided with a ‘Tabloid’ Medical Equipment, and the Medical Officer, Dr. GEORGE DAVIDSON, sends the following report:—

ANTARCTIC RELIEF SHIP “MORNING.”

I wish very heartily to express my perfect satisfaction with the medical equipment which was supplied to the Antarctic Relief Ship “Morning” by Burroughs Wellcome & Co. When I say that it was compact, yet complete, that everything was just to hand, that during a period of two years and three months I was never at a loss to find just the medicine I wanted, and that without delay, I need say no more to

emphasise the extraordinary convenience which a 'Tabloid' and 'Soloid' outfit is to a ship such as ours, whether at sea or in the ice. I found the 'Tabloid' and 'Soloid' products to remain unchanged throughout the whole period of my commission, and to equal in efficacy the best medical preparations I have yet had occasion to use. It is impossible to realise without experience how much can be condensed by this mode of exhibition in a very small space. I strongly advise all intending explorers to betake themselves to Burroughs Wellcome & Co. for their medical equipment, and they will not be disappointed.

George A. Davidson
z

From Dr. EDWARD WILSON, also, who was in charge of some of the sledge journeys from the "Discovery," the following report has been received:—

"DISCOVERY" ANTARCTIC EXPEDITION.

Though there was but little serious illness on the "Discovery" during the recent Antarctic Expedition, the 'Tabloid' preparations and the cases were put to a fairly rigorous test, not only in the ship, but on the various sledge journeys that were undertaken, during which they experienced temperatures as low as 68° below zero, and much rough handling, without any loss in efficiency and usefulness. Certain of the 'Tabloid' Ophthalmics were freely used for snow blindness, and were found to be most convenient.

Edward A. Wilson.

Mr. JULIUS PRICE, the special artist and correspondent of the "Illustrated London News," reports that he carried his 'Tabloid' Medicine Case over 30,000 miles through Arctic regions, across Siberia, through China, Japan and America. Despite the severe wear and tear of this great journey, the case has suffered little, and the remaining contents are quite unaffected by exposure to every variety of climate.

30,000 miles.
 Arid Desert
 and Humid
 Swamps.
 Extreme
 Heat and
 Cold

Two typical reports on 'Tabloid' Equipments are appended:—

Extract from the report of R. F. RAND, Esq., M.D., F.R.C.S., Principal Medical Officer, British South Africa Company:—

We have had Burroughs Wellcome & Co.'s 'Congo' Chests, fitted with 'Tabloid' medicines, in daily use during the occupation of this country. They have proved of inestimable service.

"Inestimable Service"

Extract from the report of the late W. H. CROSSE, M.D., M.R.C.S., Principal Medical Officer, British Royal Niger Company:—

All these 'Tabloid' drugs are so good it is impossible for me to speak more highly of one than another. They are all of the very best quality, each drug is accurately described, and reliable. To the traveller these preparations are simply invaluable, and I would strongly advise every one coming out to the Tropics to get a full supply of 'Tabloid' medicines.

"The Very Best Quality"

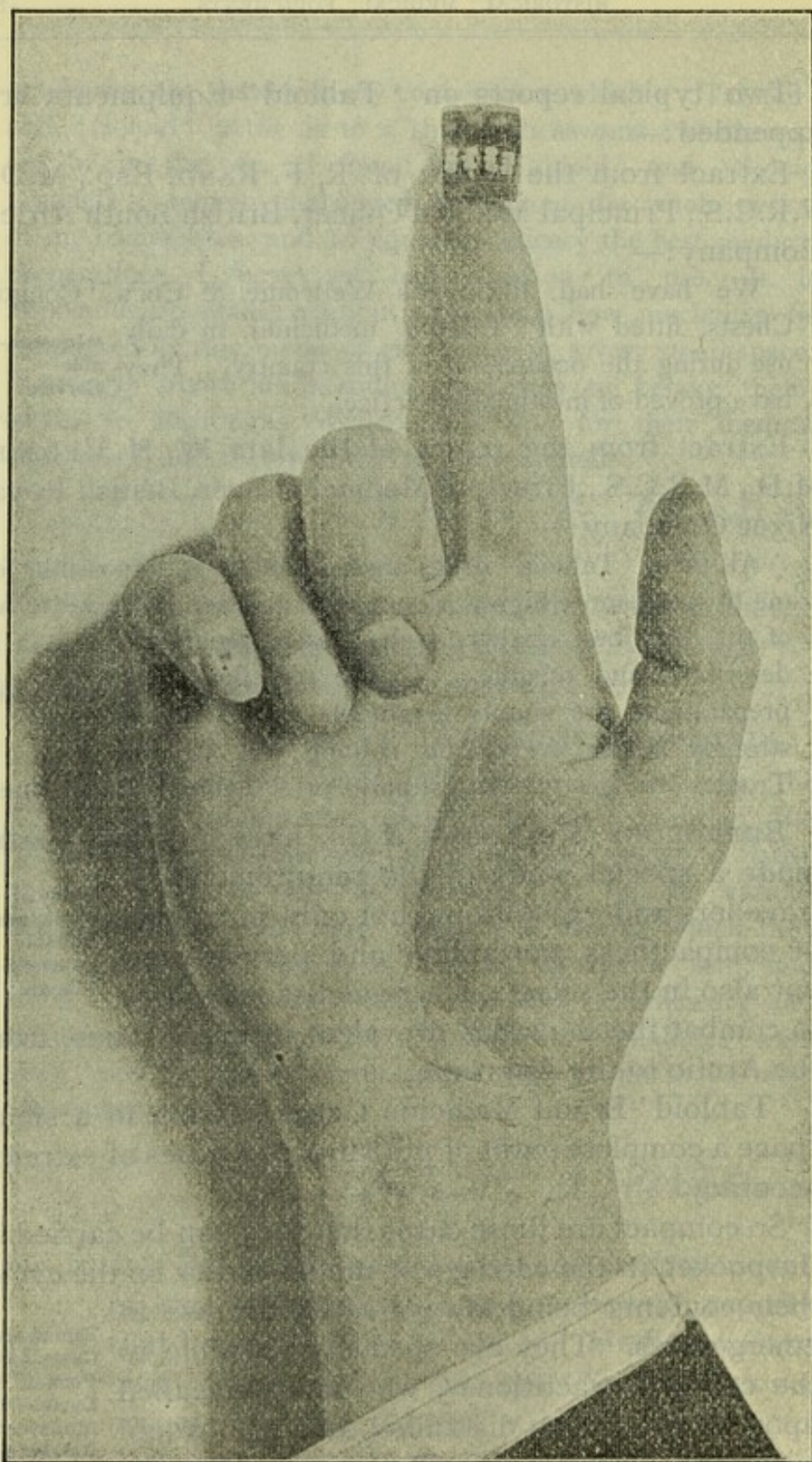
BURROUGHS WELLCOME & Co. have for many years made a special study of the requirements of travellers and expeditions, not only in respect of compactness, portability and permanence, but also in the selection of remedies necessary to combat the maladies prevalent in every clime, from the Arctic to the Antarctic.

Study of Medicines Suitable for every Climate

'Tabloid' Brand Medicine Cases contain in a small space a complete outfit of pure drugs in doses of extreme accuracy.

So compact are these cases that they can be carried in the pocket, in the carriage or motor-car, or on the cycle, their contents being always ready for use in emergencies. They are specially valuable to the country practitioner, who is often called upon to cover long distances, and who would experience great difficulty in carrying or obtaining supplies of such medicines as he may desire to administer promptly, were it not for the convenience and portability of 'Tabloid' Brand Medicine Cases.

Emergency Cases for Pocket, Cycle, Motor or Carriage



THE SMALLEST MEDICINE CHEST IN THE WORLD

This tiny gold medicine chest is fitted with twelve square medicine chest bottles containing 300 doses of 'Tabloid' Brand Medicaments, equivalent to 15 pints of fluid medicine.

HYPODERMIC POCKET-CASES

'TABLOID' BRAND

[B. W. & Co.]

Special Designs, the property of Burroughs Wellcome & Co.

The word 'Tabloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Tabloid' Hypodermic Pocket-Cases provide complete armamentaria for hypodermic work. Primarily intended for emergency purposes, such essentials as compactness and convenience in use have received the fullest attention, and with unique result. A full equipment of hypodermic drugs of utmost reliability and accuracy of dosage, together with syringe and needles, may, by means of a 'Tabloid' Hypodermic Outfit, be carried easily in the waistcoat pocket.

For the
Waistcoat
Pocket

Hypodermic 'Tabloid' Brand Pocket-Cases are prepared in gold, silver, gun-metal, or aluminium, and in a great variety of fancy leathers. Each contains a B. W. & Co. Hypodermic Syringe with needles, and from five to fifteen tubes of 'Tabloid' Brand Hypodermic products, etc.

NO. 7. HYPODERMIC 'TABLOID' BRAND POCKET-CASE



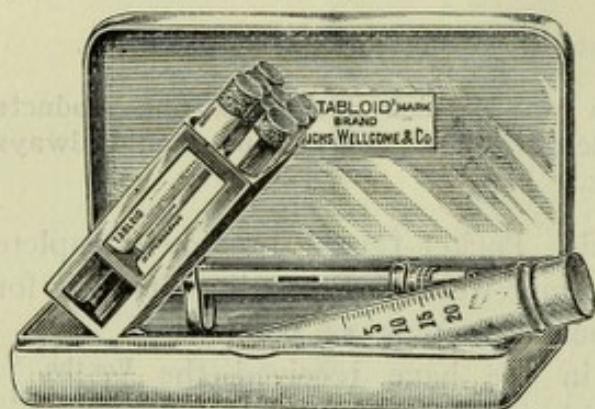
NO. 7. HYPODERMIC 'TABLOID' BRAND
POCKET-CASE

Measurements, $3\frac{1}{2} \times 3\frac{1}{8} \times \frac{3}{4}$ in.

With special detachable aseptic frame of novel design (*registered*), and revolving rack. Fitted with twelve tubes of 'Tabloid' Hypodermic products, nickel-plated syringe, one exploring and two regular steel needles. This case, after the removal of the tubes of Hypodermic products, may be sterilised with ease. In Gun-metal or in Aluminium.

NO. 9. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE (*Registered*)

This case is a model of compact completeness. It is made of nickel-plated metal, each edge and corner being smoothly rounded. It



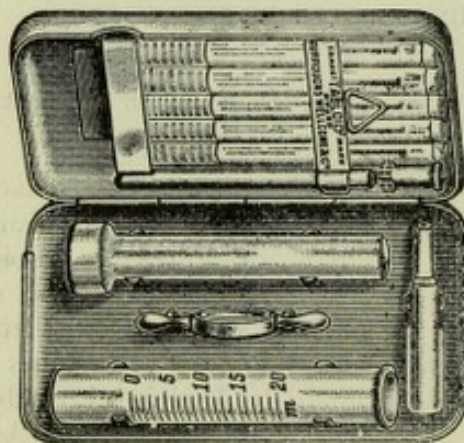
NO. 9. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE

Measurements, $3\frac{1}{4} \times 1\frac{3}{4} \times \frac{3}{4}$ in.

tubes of Hypodermic products, may be sterilised with ease. Enclosed in a doeskin cover.

contains the B. W. & Co. All-Glass Aseptic Syringe, with detachable nickel-plated finger-grip, and two regular steel needles enclosed in a protective tube. The tubes of 'Tabloid' Hypodermic products, eight in number, are carried in a hinged rack, which securely holds them when the case is closed, and which, when swung outwards, allows of the easy withdrawal of the desired tube. This case, after the removal of the

NO. 10. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE



NO. 10. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE

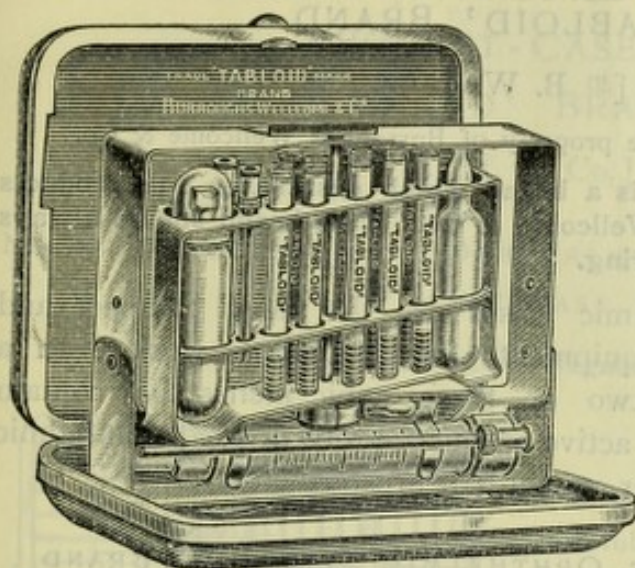
Measurements, $2\frac{1}{2} \times 1\frac{3}{8} \times \frac{7}{8}$ in.

Nickel-plated metal. Fitted with the B. W. & Co. All-Glass Aseptic Syringe (capacity min. 20) with detachable finger-grip and two regular steel needles. Each part of the syringe is separately held in a holdfast clip. A hinged rack carries five tubes of 'Tabloid' Hypodermic products. Enclosed in a doeskin cover.

NO. 21. HYPODERMIC 'TABLOID' BRAND POCKET-CASE

Measurements, $4 \times 3\frac{1}{8} \times 1\frac{1}{4}$ in. Fitted with nine tubes of 'Tabloid' Hypodermic products, nickel-plated hypodermic syringe with two steel needles, a small phial, glass-stoppered and capped, for sterilised water, capsule of ether, etc. In Morocco and other fine leathers.

NO. 23. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE

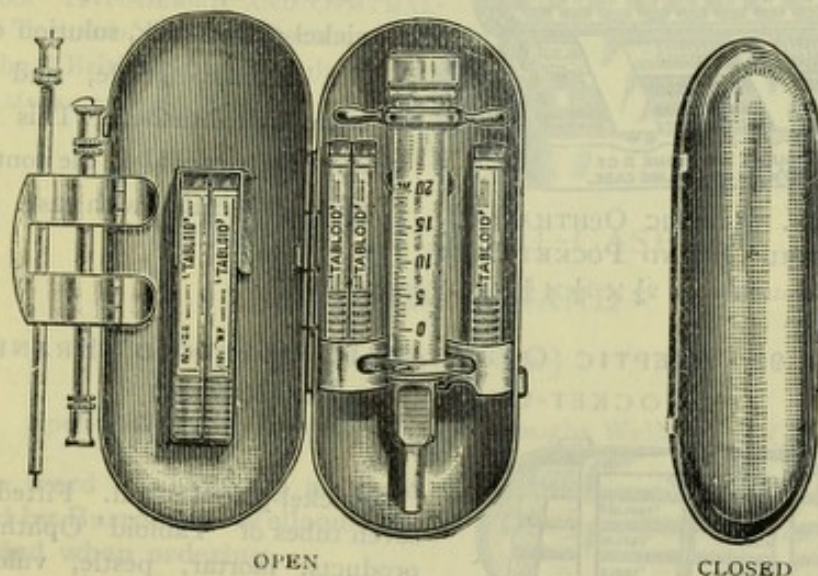


NO. 23. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE

Measurements, $3\frac{1}{2} \times 3\frac{1}{8} \times \frac{3}{4}$ in.

In Gun-metal or in Aluminium, with special detachable nickel-plated aseptic frame (*registered*) and revolving rack. Contents same as those of No. 21 Case, with the addition of an exploring needle. This case, after the removal of the tubes of Hypodermic products, may be sterilised with ease.

NO. 32. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE (The Mussel Shell) (*Registered*)



NO. 32. ASEPTIC HYPODERMIC 'TABLOID' BRAND POCKET-CASE (The Mussel Shell)

Measurements, $3\frac{3}{4} \times 1\frac{3}{4} \times \frac{3}{4}$ in.

Made of nickel-plated metal, occupies very little space, and is conveniently shaped for the pocket. Fitted with nickel-plated hypodermic syringe, five tubes of 'Tabloid' Hypodermic products, one exploring and two regular steel needles. This case, after the removal of the tubes of hypodermic products, may be sterilised with ease. Enclosed in a leather cover.

OPHTHALMIC POCKET-CASES 'TABLOID' BRAND

[^{MADE} B. W. & Co.]

Special Designs, the property of Burroughs Wellcome & Co.

The word 'Tabloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Tabloid' Ophthalmic Cases are the most compact and complete equipments for ophthalmic work. In a space of two or three cubic inches they contain supplies of active and accurately divided ophthalmic drugs, solution dropper, camel-hair brushes, etc.

Width of
Two Fingers

NO. 91. ASEPTIC OPHTHALMIC 'TABLOID' BRAND POCKET-CASE (*Registered*)

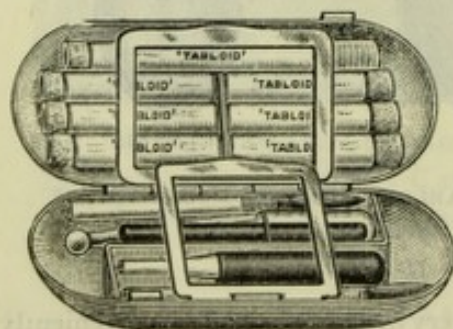


NO. 91. ASEPTIC OPHTHALMIC
'TABLOID' BRAND POCKET-CASE

Measurements, $2\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$ in.

In nickel-plated metal. Fitted with nine tubes of 'Tabloid' and 'Soloid' Ophthalmic products, in nickel-plated rack, solution dropper, mortar, pestle, and two camel-hair brushes. This case, after the removal of the contents, may be sterilised with ease.

NO. 92. ASEPTIC OPHTHALMIC 'TABLOID' BRAND POCKET-CASE (*The Mussel Shell*)



NO. 92. ASEPTIC OPHTHALMIC
'TABLOID' BRAND POCKET-CASE
(*The Mussel Shell*)

Measurements, $2\frac{1}{2} \times 1\frac{1}{8} \times \frac{5}{8}$ in.

In nickel-plated metal. Fitted with seven tubes of 'Tabloid' Ophthalmic products, mortar, pestle, vulcanite rod, solution dropper, and two camel-hair pencils. Enclosed in a doeskin cover. The shape and size of this case make it specially suitable for carrying in the waistcoat pocket. After the removal of its contents, the case can be readily sterilised.

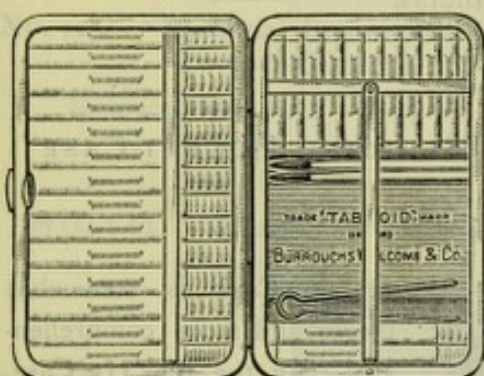
HYPODERMIC AND OPHTHALMIC POCKET-CASES

'TABLOID' BRAND

[B. W. & Co.]

NO. 80. HYPODERMIC AND OPHTHALMIC 'TABLOID' BRAND POCKET-CASE

(The "British Army Regulation")



NO. 80. HYPODERMIC AND OPHTHALMIC 'TABLOID' BRAND POCKET-CASE
(The "British Army Regulation")

Measurements, $3\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in.

In Aluminium. Contains sixteen tubes of 'Tabloid' Hypodermic products, eleven tubes of 'Tabloid' Ophthalmic products, two camel-hair brushes, a pair of minute forceps, and a booklet giving a summary of the chief uses of the products.

MEDICINE POCKET-CASES

'TABLOID' BRAND

[B. W. & Co.]

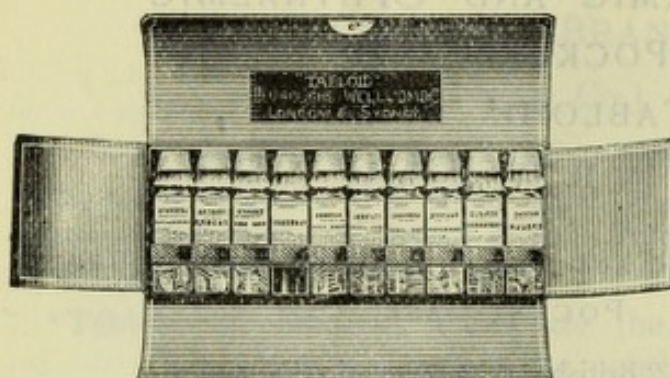
Special Designs, the property of Burroughs Wellcome & Co.

The word 'Tabloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Tabloid' Medicine Pocket-Cases are compact equipments of pure, active drugs, divided, ready for administration, into accurate doses. They enable physicians to have always with them an equipment of reliable medicines especially for emergency use. In country districts, and for travelling, 'Tabloid' Pocket-Cases are recognised as an essential in the physician's equipment.

For
Emergencies

No. 115. 'TABLOID' BRAND MEDICINE POCKET-CASE

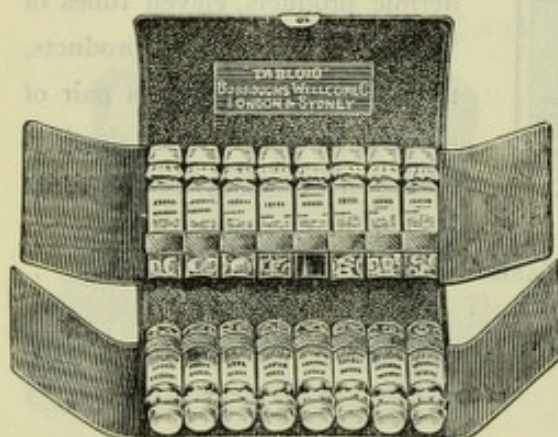


Contains ten $\frac{1}{2}$ oz. phials filled with 'Tabloid' Brand products, etc. In Seal, Pigskin, Cowhide, Morocco and other fine leathers.

No. 115. 'TABLOID' BRAND MEDICINE POCKET-CASE

Measurements, $8\frac{3}{4} \times 3\frac{3}{4} \times 1\frac{1}{2}$ in.

No. 117. 'TABLOID' BRAND MEDICINE POCKET-CASE

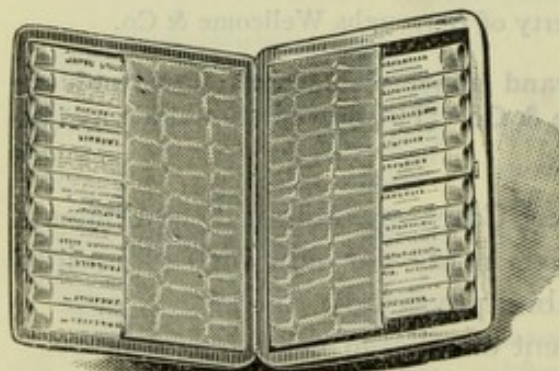


This Case is somewhat larger and more comprehensive than the No. 115 Case. It contains sixteen $\frac{1}{2}$ oz. phials of 'Tabloid' Brand products, etc. In Cowhide, Pigskin, Crocodile, Morocco and other fine leathers.

No. 117. 'TABLOID' BRAND MEDICINE POCKET-CASE

Measurements, $7\frac{1}{2} \times 4 \times 3$ in

No. 124. 'TABLOID' BRAND MEDICINE POCKET-CASE



Fitted with from sixteen to twenty-four tubes of 'Tabloid' Brand products, according to size of products. In Seal, Crocodile, Morocco and other fine leathers. This case was specially designed for conveniently carrying in the breast pocket on ordinary occasions a stock of medicines sufficient to meet a variety of circumstances.

No. 124. 'TABLOID' BRAND MEDICINE POCKET-CASE

Measurements, $5\frac{1}{2} \times 4 \times 1\frac{1}{2}$ in.

NO. 125. 'TABLOID' BRAND MEDICINE POCKET-CASE

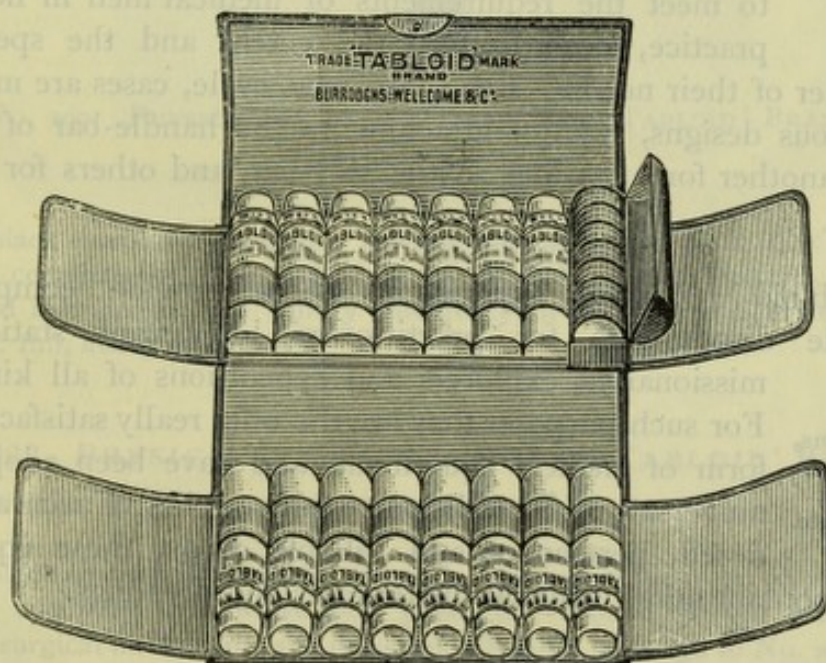


NO. 125. 'TABLOID' BRAND MEDICINE POCKET-CASE

Measurements, $5\frac{1}{2} \times 4 \times 1\frac{1}{2}$ in.

Specially fitted for emergency purposes with fourteen tubes of 'Tabloid' Brand products, and a removable tray containing a hypodermic equipment of twelve tubes of 'Tabloid' Hypodermic products, B. W. & Co. nickel-plated hypodermic syringe, and two regular steel needles. In Cowhide and other fine leathers.

NO. 141. 'TABLOID' BRAND MEDICINE POCKET-CASE



NO. 141. 'TABLOID' BRAND MEDICINE POCKET-CASE

Measurements, $7\frac{1}{2} \times 4 \times 2\frac{1}{2}$ in.

In Morocco leather. Fitted with fifteen half-ounce phials of 'Tabloid' Brand products, and a leather-covered metal compartment, containing pill boxes for the physician's use in distributing the contents of the case. Similar in design to No. 117.

For full particulars of these and numerous other examples, see General Price List.

CYCLE-, CARRIAGE- AND MOTOR-CAR CASES MEDICAL EQUIPMENT CHESTS, ETC.

'TABLOID' BRAND

[^{SEE}_{LIST} B. W. & Co.]

Special Designs, the property of Burroughs Wellcome & Co.

The word 'Tabloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

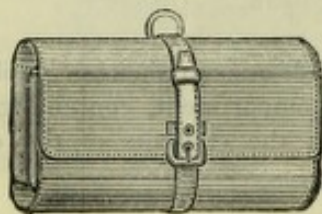
'Tabloid' Cycle-, Carriage-, Motor-Car and Equipment Cases contain 'Tabloid,' 'Soloid' and other fine products of B. W. & Co., minor surgical instruments and sundry emergency dressings. A great variety is prepared to meet the requirements of medical men in home practice, according to the extent and the special character of their needs. For those who cycle, cases are made in various designs, one for attaching to the handle-bar of the cycle, another for attaching to the stay-bar, and others for the pocket.

For
General
Practi-
tioners

'Tabloid' Medical Equipment Cases provide complete portable dispensaries for practitioners in distant stations, missionaries, explorers and expeditions of all kinds. For such purposes they are the only really satisfactory form of medical equipment, and have been adopted universally. In addition to full supplies of accurately dosed, permanent and reliable drugs, these equipments contain minor surgical instruments and dressings.

For
Physicians,
Explorers,
Missions,
Armies, etc.

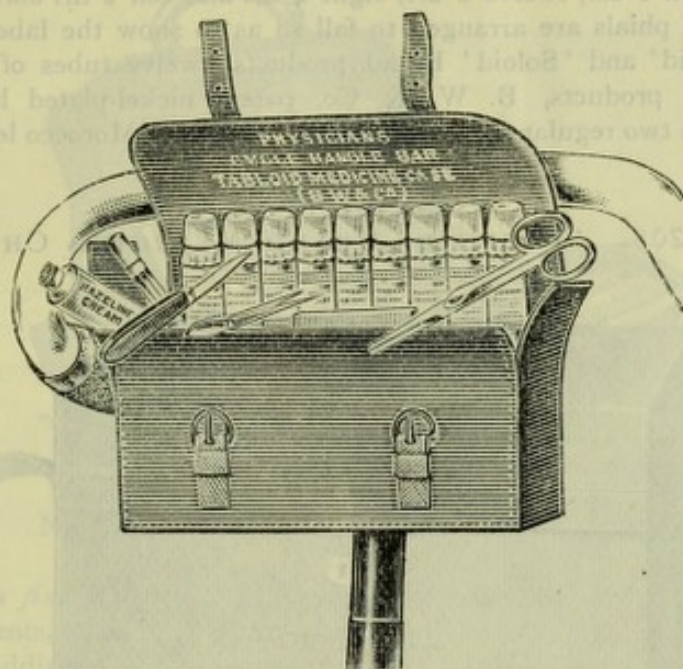
NO. 137. 'TABLOID' BRAND MEDICINE SADDLE-CASE



NO. 137. 'TABLOID' BRAND
MEDICINE SADDLE-CASE

In Cowhide or Pigskin. Measurements, $7\frac{1}{4} \times 4\frac{1}{4} \times 2\frac{3}{4}$ in. Fitted in the same way as No. 117 with sixteen half-ounce phials of 'Tabloid' Brand products, etc. This case is also supplied fitted with feather-weight containers. (No. 139.) Measurements, $7\frac{1}{4} \times 4\frac{1}{2} \times 2\frac{3}{4}$ in.

NO. 200. PHYSICIAN'S CYCLE HANDLE-BAR 'TABLOID' BRAND MEDICINE CASE



NO. 200. PHYSICIAN'S CYCLE HANDLE-BAR 'TABLOID' BRAND MEDICINE CASE

In black enamelled Cowhide. Outside measurements, $8\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{4}$ in. Fitted complete with nine $\frac{1}{2}$ -oz. phials of 'Tabloid' Brand products, minor surgical instruments and sundry emergency dressings. Weight, empty, $8\frac{1}{4}$ oz. ; full, about $1\frac{1}{2}$ lb.

NO. 202. PHYSICIAN'S CYCLE STAY-BAR 'TABLOID' BRAND MEDICINE CASE

In black enamelled Cowhide. Outside measurements, $10 \times 2\frac{3}{4} \times 5$ in. Fitted complete with twelve $\frac{1}{2}$ -oz. phials of 'Tabloid' Brand products, minor surgical instruments and dressings. Similar in design to No. 200.

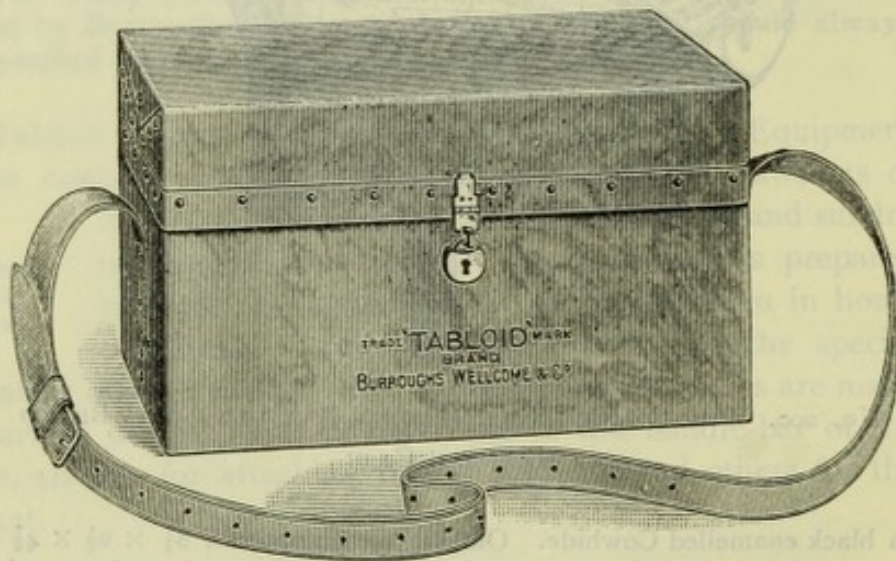
NO. 209. 'TABLOID' BRAND MEDICINE CASE
(Registered)

In Morocco leather, Cowhide or Pigskin. Outside measurements, $10 \times 5 \times 6\frac{1}{2}$ in. Contains nine 1 oz., twenty-four $\frac{1}{2}$ -oz., and thirteen 2 dr. phials of 'Tabloid' and 'Soloid' Brand products ; medicine measure, extra pockets, and loops for instruments ; twelve tubes of 'Tabloid' Hypodermic products, B. W. & Co. patent nickel-plated hypodermic syringe, two regular steel needles, etc.

NO. 219. 'TABLOID' BRAND MEDICINE CASE

Measurements, $13\frac{1}{2} \times 6 \times 6\frac{1}{4}$ in. Metal frame. Contains eight 2 oz. stoppered, ten 1 oz., twelve 6 dr., eight 4 dr. and ten 2 dr. corked phials. The rows of phials are arranged to fall so as to show the labels. Fitted with 'Tabloid' and 'Soloid' Brand products, twelve tubes of 'Tabloid' Hypodermic products, B. W. & Co. patent nickel-plated hypodermic syringe, with two regular steel needles, etc. Made in Morocco leather.

NO. 208. 'TABLOID' BRAND MEDICINE CHEST



NO. 208. 'TABLOID' BRAND MEDICINE CHEST

Made of dressed and varnished raw-hide; very light, portable and durable. Outside measurements, $15\frac{1}{2} \times 5\frac{1}{4} \times 9$ in. Fitted with twelve 4 oz. stoppered bottles of 'Tabloid' and 'Soloid' Brand products, minor surgical instruments and dressings, etc.

A similar case is also made in a smaller size (No. 206). Outside measurements, $14\frac{1}{2} \times 4\frac{1}{2} \times 7\frac{1}{4}$ in. Fitted with twelve $2\frac{1}{2}$ oz. stoppered bottles of 'Tabloid' and 'Soloid' Brand products, etc. (as carried by Mr. Thos. Stevens).

NO. 220. 'TABLOID' BRAND MEDICINE CASE

(Registered)

In Morocco or Cowhide. Measurements, $14 \times 5\frac{1}{2} \times 9\frac{1}{2}$ in. Phials arranged in tiers to display labels. Contains eight 2 oz. stoppered, twelve 1 oz., fourteen 6 dr., and sixteen 4 dr. phials of 'Tabloid' and 'Soloid' Brand products, twelve tubes of 'Tabloid' Hypodermic products, B. W. & Co. nickel-plated hypodermic syringe, needles, space and loops for instruments, etc. Similar in design to No. 221 Case.

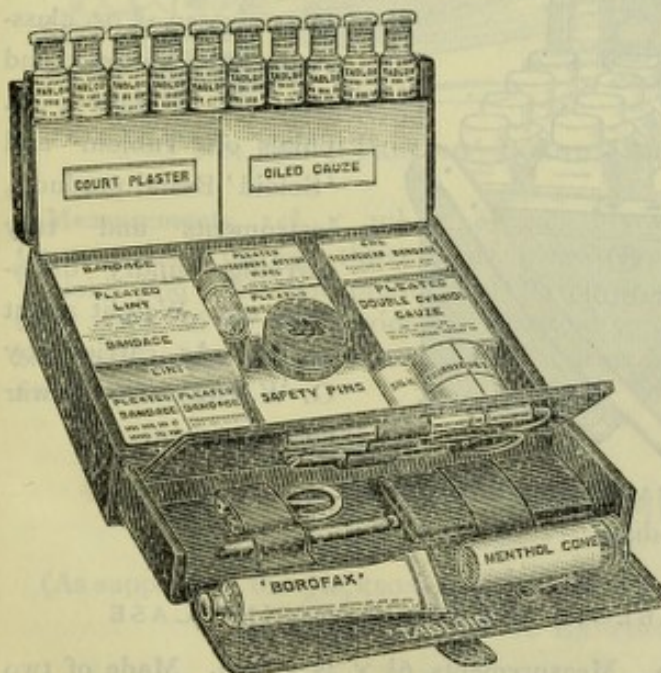
NO. 221. 'TABLOID' BRAND MEDICINE CASE
(Registered)



NO. 221. 'TABLOID' BRAND MEDICINE CASE

In *extra finish* Cowhide, Morocco, Crocodile and other fine leathers. Measurements, $14 \times 5\frac{1}{2} \times 9\frac{1}{2}$ in. Fitted in the same way as No. 220 Case, with the addition of nine 2 dr. phials of 'Tabloid' and 'Soloid' Brand products, and a glass-stoppered and capped ether bottle.

NO. 230. 'TABLOID' BRAND MEDICINE CASE



NO. 230. 'TABLOID' BRAND MEDICINE CASE

beyond the reach of professional aid. Conveniently shaped for packing in trunk or bag.

A Morocco leather or Cowhide case, which when closed measures $8 \times 5\frac{1}{2} \times 2\frac{1}{2}$ in. Fitted with ten phials of 'Tabloid' and 'Soloid' Brand products, minor surgical instruments and dressings.

It provides a small but very comprehensive medical and surgical outfit. The physician will find this an extremely serviceable case for a patient travelling abroad, where at times he may be

NO. 231. 'TABLOID' BRAND MEDICINE CASE (*Registered*)

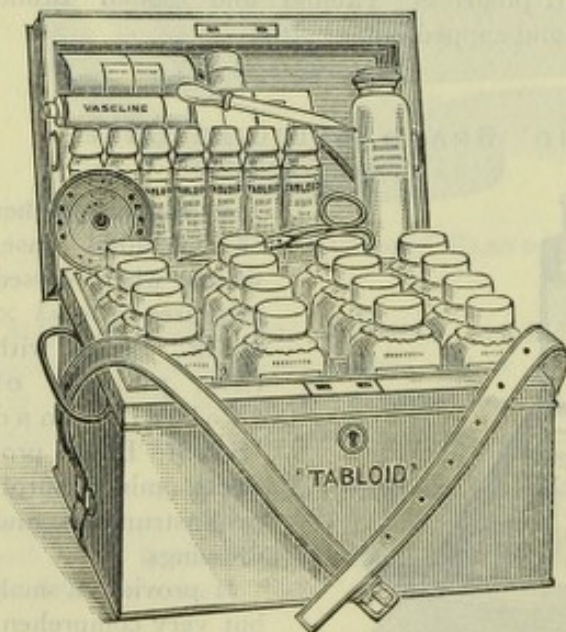
(As suggested by Sir W. MOORE)



In black japanned metal. Measurements, $10\frac{3}{4} \times 7\frac{1}{2} \times 3$ in. Contains fifteen 1 oz. corked phials, and one 4 oz. corked bottle; minor surgical instruments and dressings. Complete with 'Tabloid' Brand products, etc., as recommended in Sir W. MOORE'S *Manual of Family Medicine for India*.

NO. 231. 'TABLOID' BRAND MEDICINE CASE

NO. 254. 'TABLOID' BRAND MEDICINE CHEST (The Indian)



Made of japanned metal. Measurements, $9\frac{1}{4} \times 7 \times 6\frac{1}{2}$ in. Contains sixteen $1\frac{1}{4}$ oz. glass-stoppered bottles, and from six to eight 4 dr. phials of 'Tabloid' and 'Soloid' Brand products, instruments and tray carrying sundry dressings, etc. Weight about 12 lb. As carried by G. W. Steevens, the war correspondent.

NO. 254. 'TABLOID' BRAND MEDICINE CHEST
(The Indian)

NO. 227. 'TABLOID' BRAND MEDICINE CASE

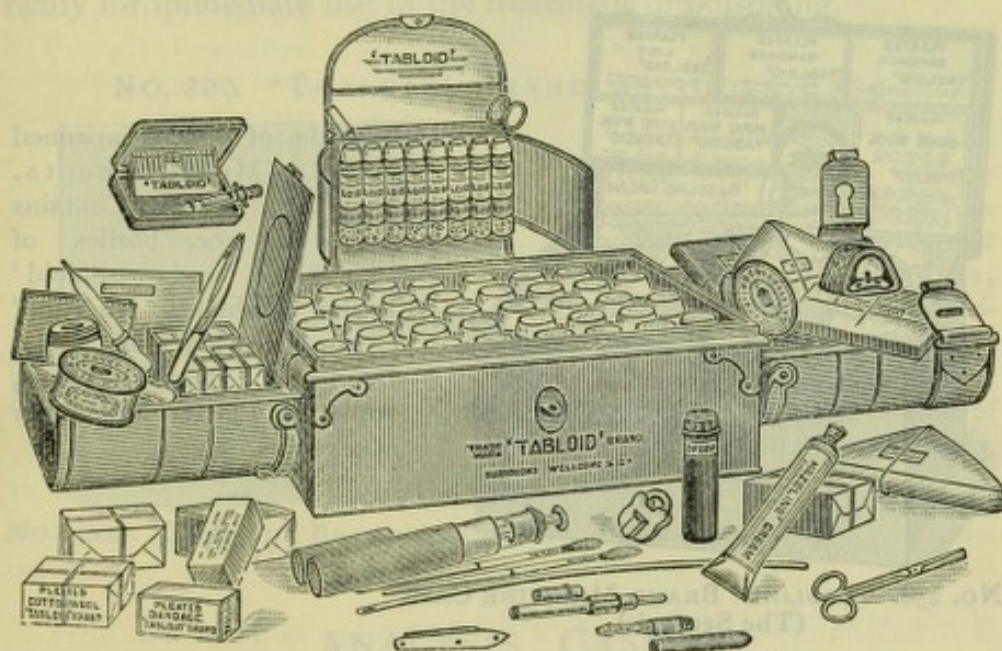
In Cowhide or Pigskin. Measurements, $6\frac{1}{2} \times 3\frac{3}{4} \times 3$ in. Made of two metal cups and frames covered with leather. Arranged to contain twenty $1\frac{1}{2}$ dr., twelve 1 dr., and fourteen $\frac{1}{2}$ dr. tubes of 'Tabloid' and 'Soloid' Brand products. Weight about 2 lb. 6 oz.

NO. 229. 'TABLOID' BRAND MEDICINE CASE

Measurements, $8\frac{1}{2} \times 5\frac{1}{4} \times 3\frac{3}{4}$ in. Made of two metal cups and frames covered with Cowhide. Arranged to contain forty 4 dr. phials of 'Tabloid' and 'Soloid' Brand products. Weight about 4 lb. 13 oz.

NO. 250. 'TABLOID' BRAND MEDICINE CHEST

(As supplied to Sir H. M. STANLEY, EMIN PASHA, Military Expeditions, Missionaries, etc.)



NO. 250. 'TABLOID' BRAND MEDICINE CHEST

Measurements, $15\frac{3}{4} \times 10\frac{1}{2} \times 8\frac{1}{4}$ in. Made of japanned sheet-steel. Contains six 5 oz. and thirty $3\frac{1}{2}$ oz. glass-stoppered bottles of 'Tabloid,' 'Soloid' and other fine products of B. W. & Co. in movable teak-wood tray. The lid (in two sections) is arranged to hold supplies of dressings, bandages, minor surgical instruments and other accessories. Weight, when fitted, about 40 lb.

NO. 251. 'TABLOID' BRAND MEDICINE CHEST

(As supplied to the JACKSON-HARMSWORTH POLAR EXPEDITION, THE NATIONAL ANTARCTIC EXPEDITION, etc.)

Made of aluminium. Measurements, $15\frac{3}{4} \times 10\frac{1}{2} \times 8\frac{1}{4}$ in. Contains forty $3\frac{1}{2}$ oz. feather-weight bottles of 'Tabloid,' 'Soloid' and other fine products of B. W. & Co. In other respects it is fitted in the same way as the No. 250 Chest. Weight, when complete, about 27 lb.

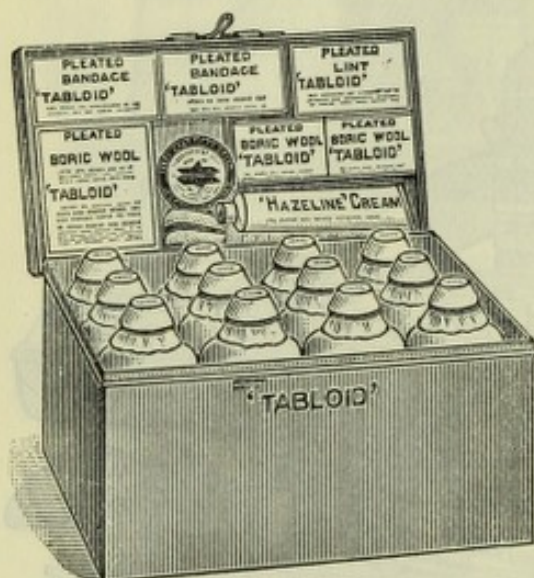
NO. 256. 'TABLOID' BRAND MEDICINE CHEST

(As supplied to the DUKE OF THE ABRUZZI'S POLAR EXPEDITION)

Measurements, $10\frac{1}{2} \times 6 \times 7\frac{1}{2}$ in. Fitted with eighteen $3\frac{1}{2}$ oz. feather-weight containers of 'Tabloid' and 'Soloid' Brand products, and a tray containing minor dressings and sundries. Made of aluminium.

A similar chest is supplied in black japanned metal and is known as No. 255. The contents are the same as No. 256, with the exception that the 'Tabloid' and 'Soloid' Brand products are in glass-stoppered bottles.

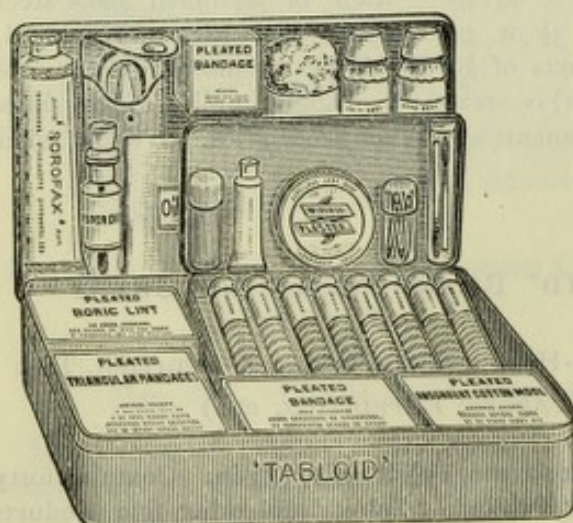
NO. 258. 'TABLOID' BRAND MEDICINE CASE (The Settler's)



Made of black japanned metal. Measurements, $8\frac{1}{4} \times 4\frac{1}{4} \times 5\frac{3}{4}$ in. Contains twelve $1\frac{1}{2}$ oz. bottles of 'Tabloid' and 'Soloid' Brand products, 'Hazeline' Cream, Pleated Compressed Bandages and Dressings, Adhesive Plaster and other accessories.

NO. 258. 'TABLOID' BRAND MEDICINE CASE
(The Settler's)

NO. 259. 'TABLOID' BRAND MEDICINE CASE (The Motor-Car Case)



Made of black japanned metal. Measurements, $7\frac{1}{2} \times 4\frac{1}{4} \times 2$ in. Contains eight tubes of 'Tabloid' and 'Soloid' Brand products, Sal Volatile, 'Borofax,' Carron Oil, plaster, 'protective skin,' Pleated Compressed Bandages and Dressings, pins, scissors, etc., etc.

NO. 259. 'TABLOID' BRAND MEDICINE CASE
(The Motor-Car Case)

ANTIDOTE CASE 'TABLOID' BRAND

[B. W. & Co.]

Special Design, the property of Burroughs Wellcome & Co.

The word 'Tabloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

A compact equipment, containing instruments and drugs ready for immediate use in the treatment of poisoning.

NO. 300. 'TABLOID' BRAND ANTIDOTE CASE



Measurements, 12 x 6 x 3 in.
Fitted with stomach syphon-tube, catheter, B. W. & Co. nickel-plated hypodermic syringe, two needles, 'Tabloid' Hypodermic products, 'Vaporole' Amyl Nitrite, toxicological chart, and twenty-one ½ oz. phials of 'Tabloid' Brand Antidotes, etc.

No. 300. 'TABLOID' BRAND ANTIDOTE CASE

ANALYSIS CASES 'SOLOID' BRAND

[B. W. & Co.]

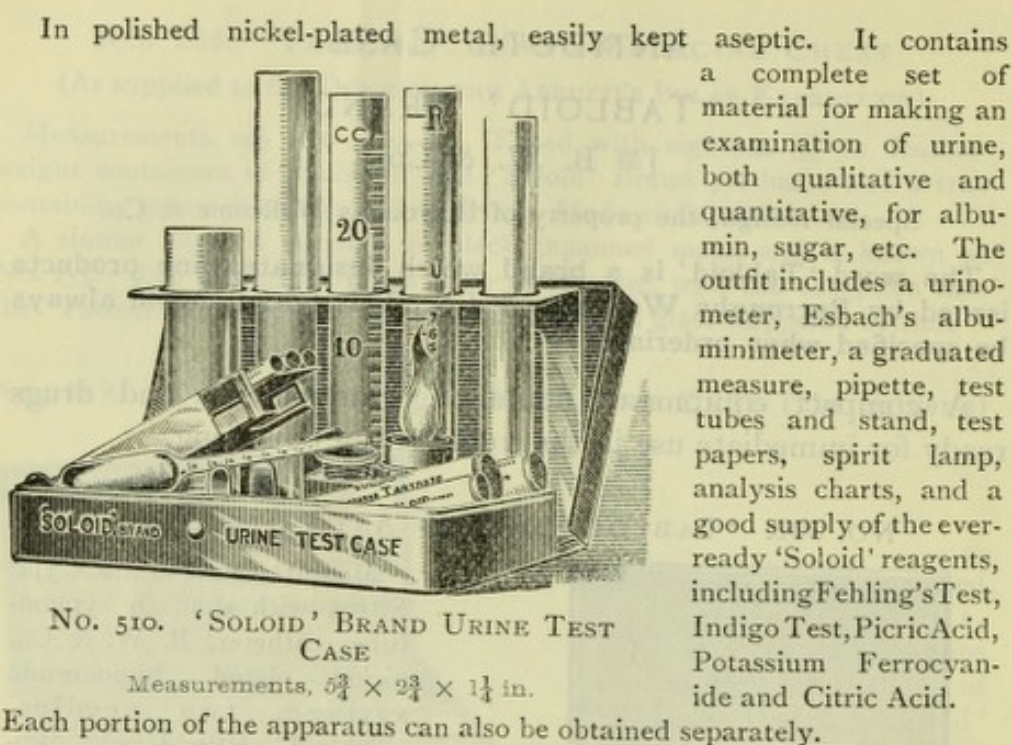
Special Designs, the property of Burroughs Wellcome & Co.

The word 'Soloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

NO. 510. 'SOLOID' BRAND URINE TEST CASE (Registered)

The clinical importance of urine analysis is fully recognised. This case provides, in a most compact and convenient form, all the requirements for making an examination of urine at the bedside. Owing to their purity and accuracy, the 'Soloid' Brand products contained in this case make reliable test solutions without further weighing.

Urine
Analysis
instantly at
the bedside



No. 510. 'SOLOID' BRAND URINE TEST CASE

Measurements, $5\frac{3}{4} \times 2\frac{3}{4} \times 1\frac{1}{4}$ in.

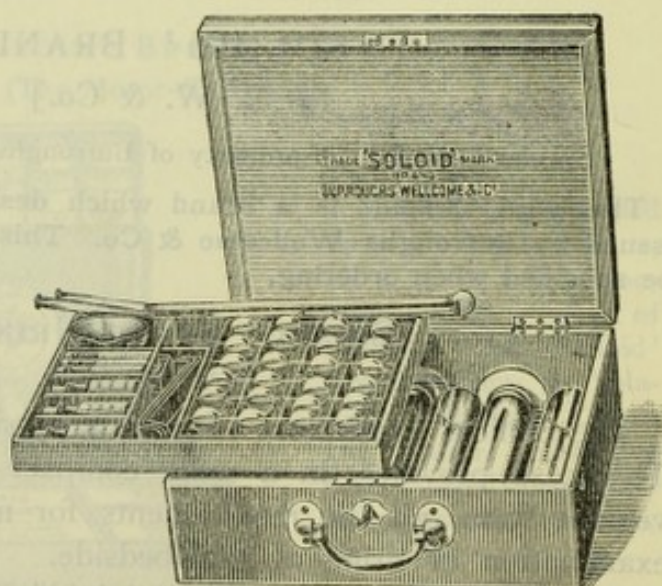
Each portion of the apparatus can also be obtained separately.

No. 500. 'SOLOID' BRAND WATER ANALYSIS CASE
(Registered)

This convenient hand-case supplies all the apparatus, reagents, etc., necessary for examining samples of drinking water at the source of supply, and for drawing up the usual reports concerning suitability of the water for domestic purposes.

Analysis instantly at source

Measurements, $12\frac{1}{2} \times 10\frac{1}{2} \times 4\frac{3}{4}$ in. It contains a nickel evaporating dish, Erlenmeyer flask, tripod, spirit lamp, 100 c.c. and other graduated cylinders, capsules of 'Soloid' Nessler's Solution, 'Soloid' Brand products of Silver Nitrate, Potassium Iodide and Starch, Potassium Permanganate, Potassium Chromate, Meta-phenylenediamine Sulphate, Potassium Ferrocyanide, Sodium Acid Sulphate, Soap, Zinc Dust, etc.



No. 500. 'SOLOID' BRAND WATER ANALYSIS CASE

For fuller particulars of these and other examples, see General Price List

BACTERIOLOGICAL CASE

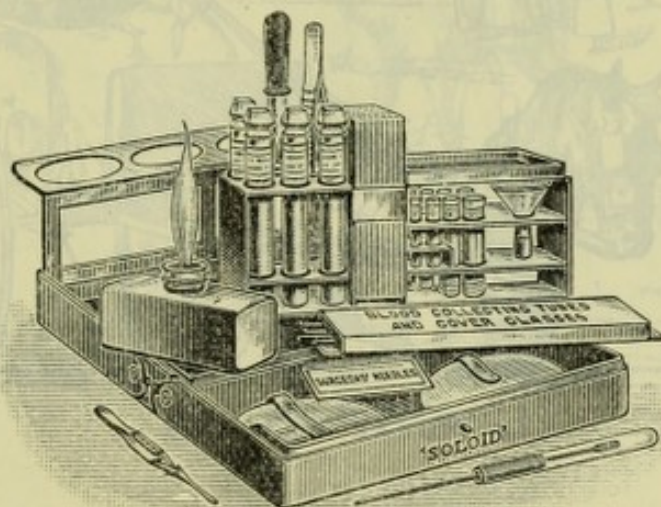
'SOLOID' BRAND

[J.B. B. W. & Co.]

Special Design, the property of Burroughs Wellcome & Co.

The word 'Soloid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

No. 505. 'SOLOID' BRAND BACTERIOLOGICAL CASE
(Registered)



No. 505. 'SOLOID' BRAND BACTERIOLOGICAL CASE
Measurements, $5 \times 3\frac{1}{2} \times 1\frac{5}{8}$ in.

This case enables medical men to carry out examinations that formerly were usually submitted to laboratory workers. Owing to its small size and light weight it can readily be carried in the pocket to the patient's bedside, to obtain a blood specimen or a throat swab. The case is made of polished metal, easily kept aseptic, and contains :

Three stoppered bottles containing—

Methyl alcohol, dr. $1\frac{1}{2}$

Absolute alcohol, dr. $1\frac{1}{2}$

Distilled water, dr. $1\frac{1}{2}$

A rod-stoppered bottle of Canada Balsam

A graduated pipette

Two forceps

12 Microscopic slides

A spirit lamp

A glass funnel

2 watch glasses

A metal case of needles (straight No. 9)

A packet of filter papers

12 blood-collecting pipettes

50 cover slips

A glass rod for powdering microscopic stains, etc.

A sterile swab

A tube each of the following 'Soloid' stains—

Eosin, Methyl Violet,

Fuchsine, Romanowsky

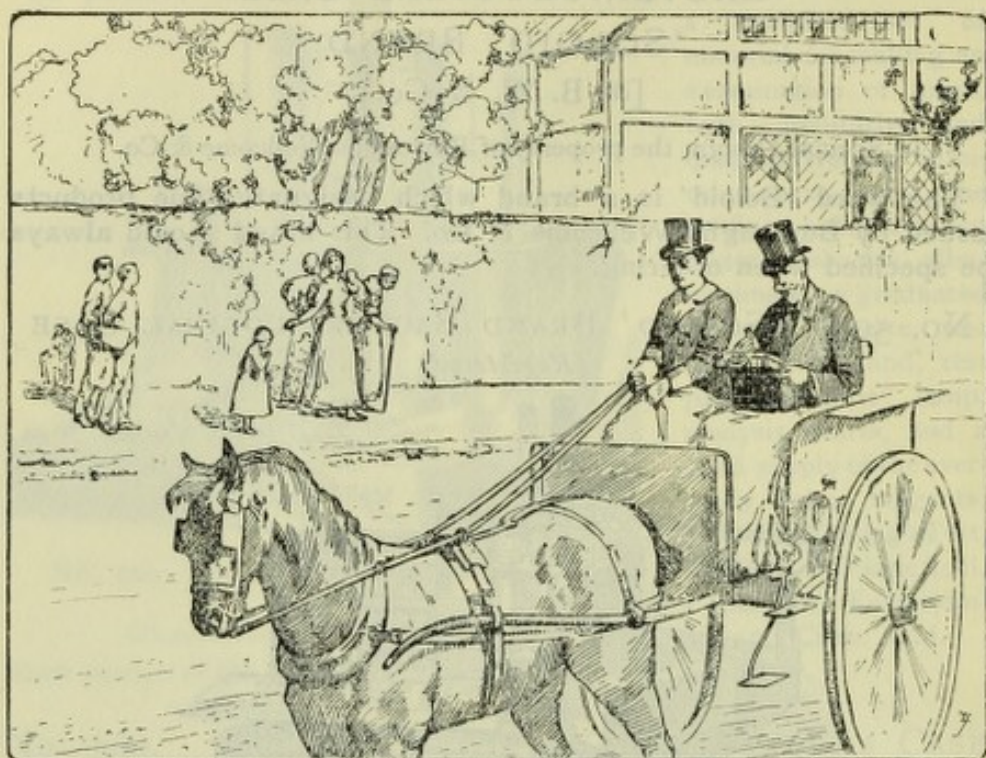
Stain, Eosin - Methylene

Blue, Hæmatoxylin

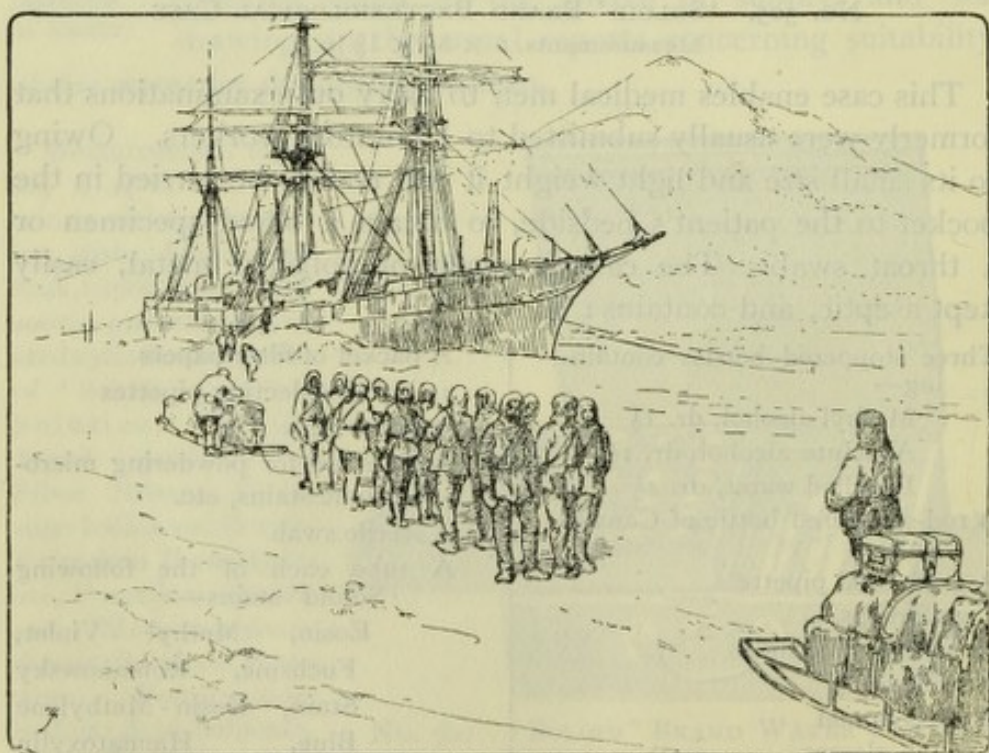
(Delafield), Toison Blood

Fluid.

'TABLOID' MEDICAL EQUIPMENTS AT HOME AND ABROAD

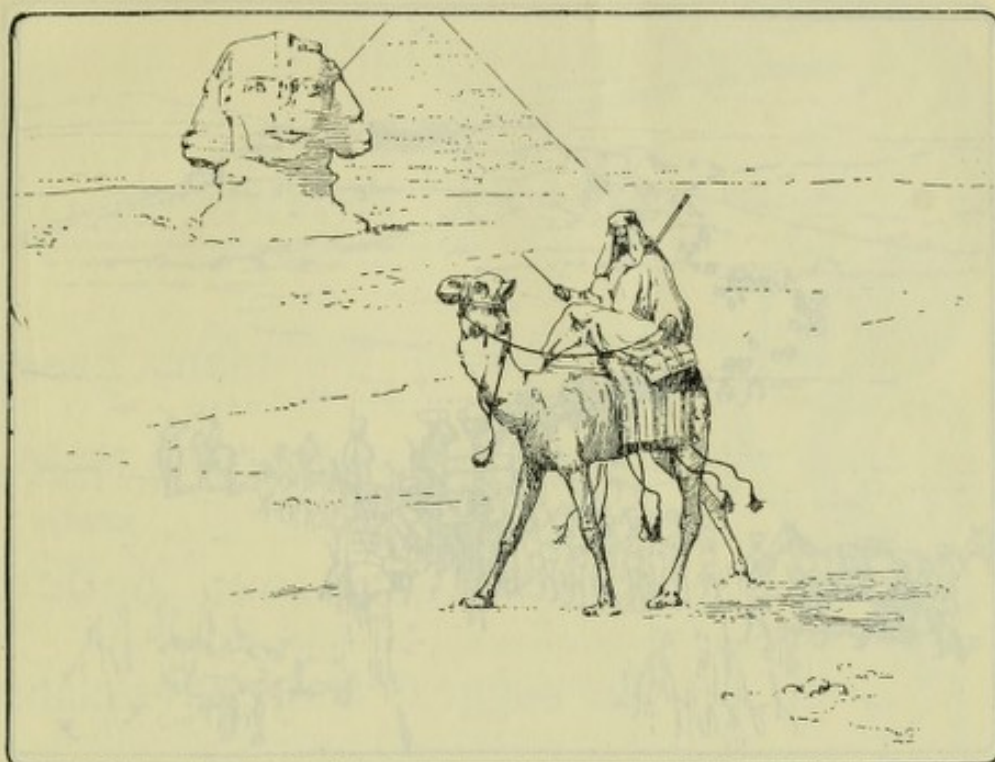


IN RURAL PRACTICE

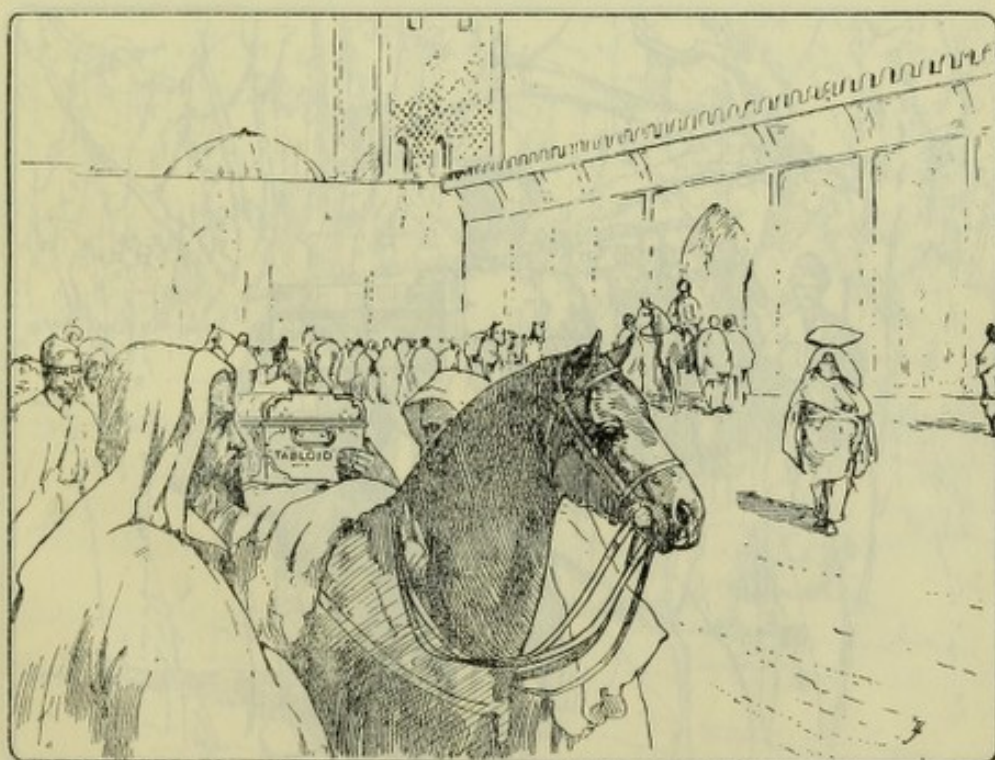


IN ARCTIC AND ANTARCTIC EXPLORATION

'TABLOID' MEDICAL EQUIPMENTS AT
HOME AND ABROAD

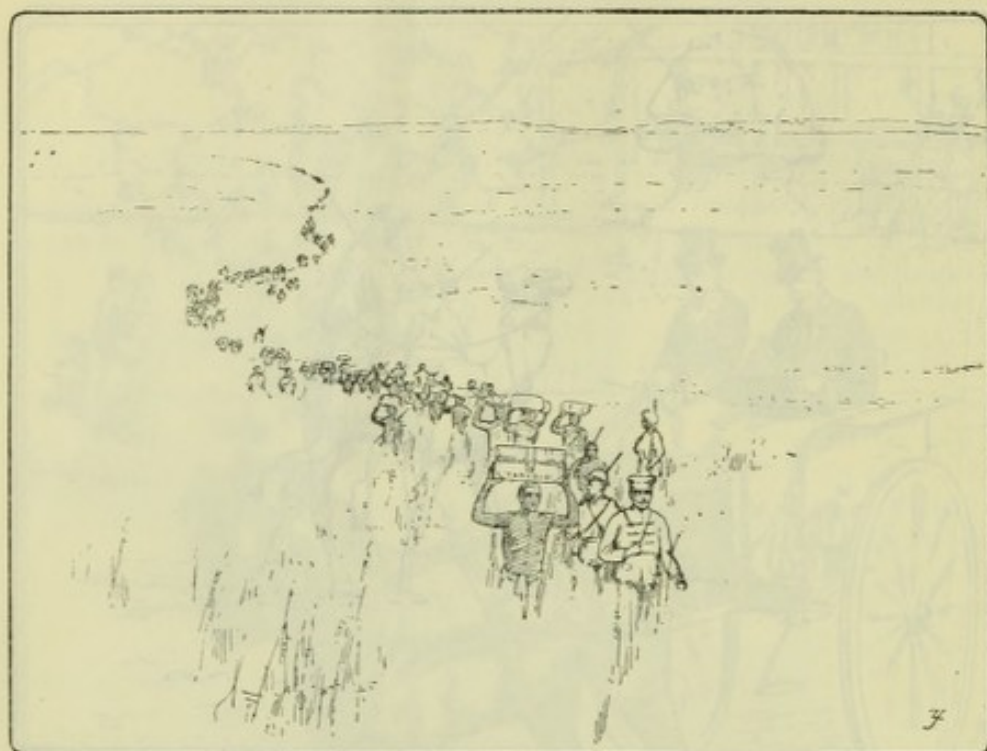


IN EGYPT

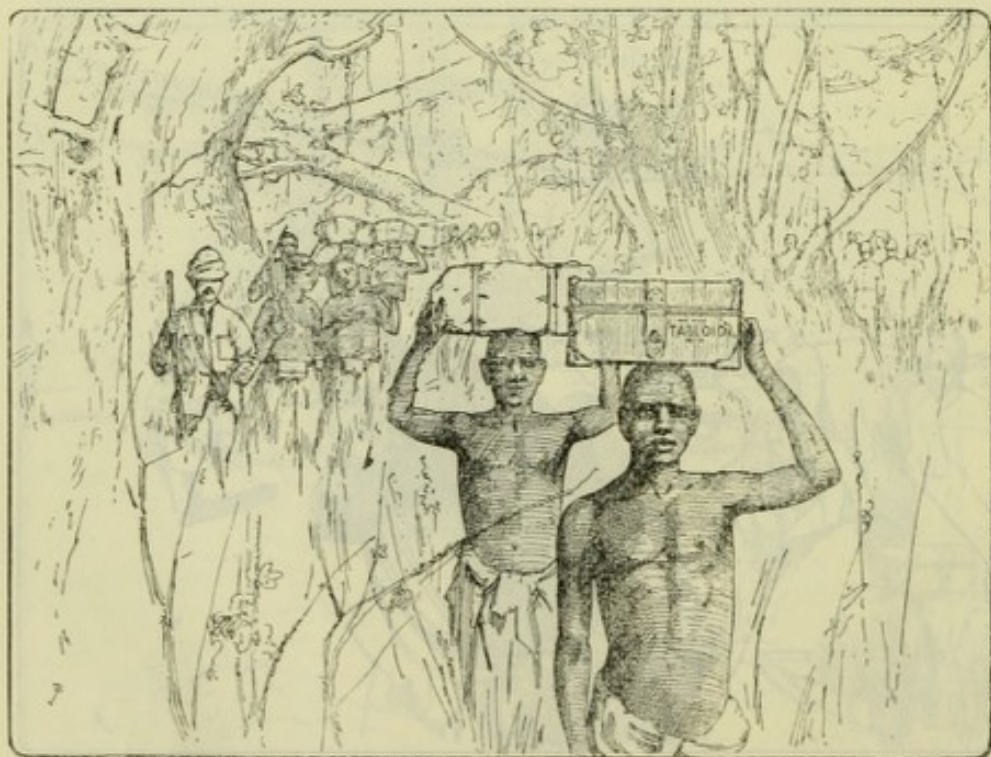


IN MOROCCO

'TABLOID' MEDICAL EQUIPMENTS AT
HOME AND ABROAD

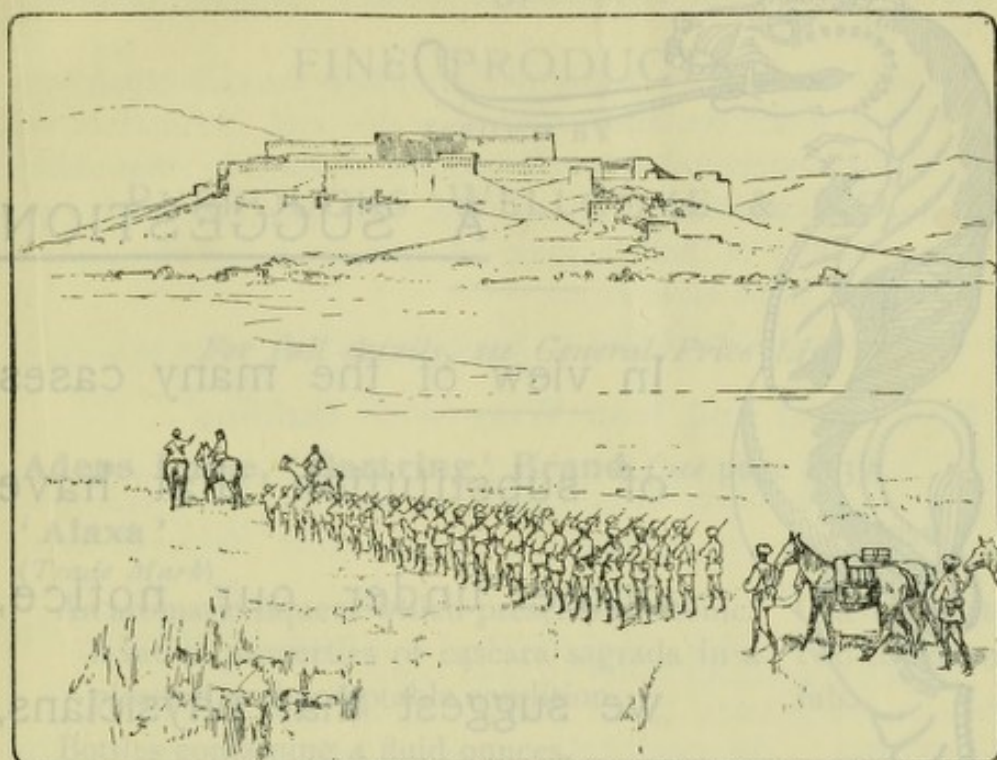


IN CENTRAL AFRICA



THROUGH DARKEST AFRICA

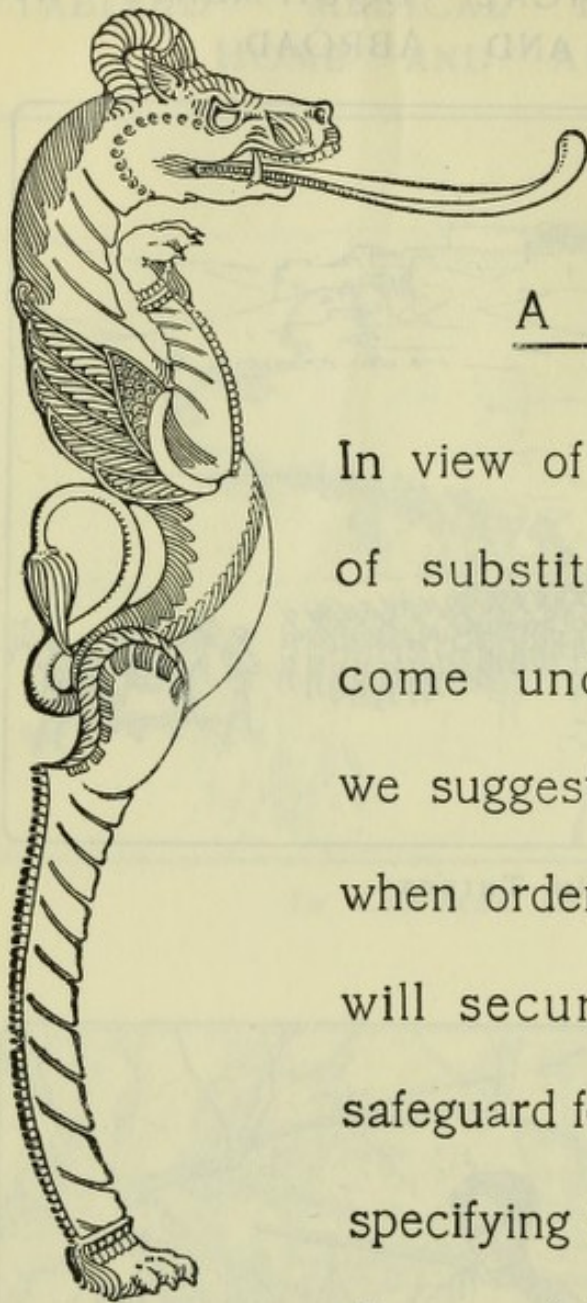
'TABLOID' MEDICAL EQUIPMENTS AT
HOME AND ABROAD



IN THIBET



IN CHINA



A SUGGESTION

In view of the many cases of substitution that have come under our notice, we suggest that physicians, when ordering our products, will secure an additional safeguard for their patients by specifying that they are to be dispensed in original bottles.

When dispensing original packages, chemists rightly replace the maker's label by the physician's written directions.

BURROUGHS WELLCOME & Co.

FORMULARY

OF

FINE PRODUCTS

ISSUED BY

BURROUGHS WELLCOME & CO.

For full details, see General Price List

Adeps Lanæ, 'Dartring' Brand (*see page 113*)

'Alaxa'

DOSE

(*Trade Mark*)

An aromatic liqueur which presents the tonic, laxative properties of cascara sagrada in a pleasant and acceptable condition.

One-half to two teaspoonfuls.

Bottles containing 4 fluid ounces.

Alkaloids, 'Wellcome' Brand (*see page 182*)

Ammonium Chloride Inhaler, 'Vereker'

Anæsthetics, Local (*see 'Tabloid' Hypodermic Anæsthetic Compounds, also 'Soloid' products of Cocaine, Eucaïne and 'Hemisine' Compound with Eucaïne*)

Antidote Case, 'Tabloid' Brand (*see page 103*)

'Aol,' a derivative of *Santalum album* (*see 'Tabloid' (Trade Mark) Brand Products, page 148*)

Atomiser, 'Paroleine' (B. W. & Co.)

(*Trade Mark*)

Most satisfactory and effective for spraying oily or aqueous solutions upon the nasal and pharyngeal mucous membranes. They are easily carried and readily rendered aseptic; with ordinary care will not get out of order.

Bacteriological Case, 'Soloid' Brand (*see page 105*)

Bandages, Pleated, Compressed, 'Tabloid' Brand
(*see page 114*)

Beef Juice, The Perfected Wyeth (*see page 178*)

'Bivo' Beef and Iron Wine

DOSE

(Trade Mark)

A pure detannated wine, each tablespoonful of which contains, in an agreeable and highly-concentrated condition, the stimulating properties of fresh beef, with the equivalent of half a grain of iron, in a readily assimilable form.

One teaspoonful for children, to one tablespoonful for adults.

Bottles containing 8 and 16 fluid ounces.

'Bivo' Beef and Iron Wine with Quinine*(Trade Mark)*

A pleasant means of administering quinine and iron in combination with other restoratives.

One teaspoonful for children, to one tablespoonful for adults.

Bottles containing 8 and 16 fluid ounces.

'Borofax' An emollient, possessing antiseptic and sedative properties.
(Trade Mark)

'Brockedon' Products

Burroughs Wellcome & Co. are the successors to, and sole proprietors of, the business of Brockedon, who, in 1842, ORIGINATED COMPRESSED MEDICINES in the shape of bi-convex discs—issued under the designation of COMPRESSED PILLS.

'Brockedon' Brand Bicarbonate of Soda, in boxes of three sizes

"	"	"	"	Potass	"	"
"	"	Chlorate	"	"	"	"

Chemicals, 'Wellcome' Brand (*see page 181*)

CHESTS AND CASES (B. W. & Co.)

A comprehensive selection of chests and cases fitted with medicines for every variety of climate, from the fully-equipped chests containing supplies sufficient for medical officers to expeditions, etc., down to the compact pocket-cases suited to the needs of the private practitioner, are prepared and issued under the 'Tabloid' Brand.

For complete list and exact descriptions, see General Price List

Analysis Cases, 'Soloid' Brand (*see* page 103)

Antidote Case, 'Tabloid' Brand (*see* page 103)

Antiseptic Cases, 'Soloid' Brand

Fitted with from four to eighteen containers of 'Soloid' Brand Antiseptics.

Hypodermic Pocket-Cases, 'Tabloid' Brand (*see* pages 89-93)

Medicine Chests and Cases, 'Tabloid' Brand (*see* pages 93-102)

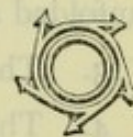
Trade
Mark

'DARTRING' BRAND PRODUCTS

The 'DARTRING' Brand appears on all labels of the genuine original Lanoline products.

'Dartring' Lanoline is prepared by a special process from the highly purified cholesterin fat of lamb's wool. It is remarkably stable, and will not support germ life.

'Dartring'



(Trade Mark)

'DARTRING' BRAND—

- „ Lanoline (Adeps Lanæ Hydrosus)
- „ „ Anhydrous (Adeps Lanæ)
- „ „ Ointment Base
- „ „ „ „ Anhydrous
- „ „ Cold Cream
- „ „ Pomade
- „ „ Shaving Soap (*in sticks*)
- „ „ Toilet (*collapsible tubes*)
- „ „ Toilet Powder
- „ „ Toilet Soap
- „ „ Ichthyol Soap
- „ „ Pine Tar Soap
- „ 'Lanesine' (*see* page 128)

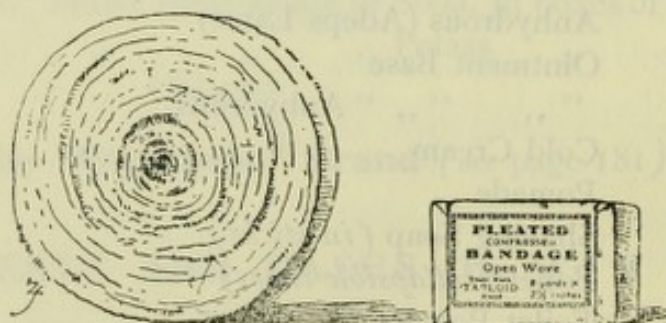
Also various other preparations issued under the 'Dartring' Brand.

DRESSINGS, PLEATED, COMPRESSED 'TABLOID' Brand

The introduction of Pleated Compressed Bandages and Dressings marks an important advance in the preparation of surgical accessories. These bandages and dressings are made of material of the best quality, and are subjected to great pressure under which each assumes a rectangular shape. After compression, each is enclosed automatically in an impervious covering of parchment paper.

The requirements of modern surgical treatment are so imperfectly fulfilled by many of the cheaper commercial dressings that the superiority of the pleated products of Burroughs Wellcome & Co. is at once evident. Their important advantages may be thus summarised:—

1. Only materials of exceptional quality are used in their manufacture, and their general excellence commends them to critical users.
2. They occupy the smallest possible space and yet can be unfolded as easily as those previously in use.
3. They are kept free from all risk of contamination.
4. The antiseptic dressings are evenly charged with medicament.
5. By reason of their extreme compactness they are by far the best for the hand-bag and cycle or saddle-case.



The ordinary open-weave
bandage of commerce.
6 yards \times $2\frac{1}{2}$ in.

Pleated Compressed
Bandage.
6 yards \times $2\frac{1}{2}$ in.

The above illustration graphically demonstrates the saving in space which is effected when Pleated Bandages and Dressings are carried. The relative sizes of an ordinary and a Pleated

Dressings, Pleated, Compressed, 'Tabloid' Brand—continued

Bandage are striking. The flat sides of Pleated Bandages enable them to be packed in a fraction of the space required by those previously in use.

These dressings are also issued *sterilised* in special impervious coverings. The requirements of modern surgical treatment, so imperfectly fulfilled by many of the cheap commercial dressings, are ideally met by these sterilised pleated products.

The following are issued :—

Pleated Bandages—

Open Wove, 1 in. × 6 yards, in packages of 1 dozen	
„ „ 2½ in. × 6 yards „ „ „ „	
Flannel, 2½ in. × 5 yards „ „ „ „	
Triangular (Esmarch's Pictorial), „ „ „ 1 dozen	
	packets of 2 bandages

These triangular bandages are of great service in first-aid or other emergency work. For the benefit of those who are unable to obtain skilled assistance, illustrations showing the various uses to which the bandage may be put, are imprinted on the fabric itself.

Pleated Cotton Wool—

Absorbent, 1 ounce packets, in packages of 1 dozen	
„ 2 „ „ „ „	
Boric, 1 „ „ „ „	
„ 2 „ „ „ „	
Double Cyanide, 3%, 1 „ „ „ „	
„ „ 2 „ „ „ „	
Iodoform, 1 „ „ „ „	
„ 2 „ „ „ „	

Pleated Gauze—

Absorbent, 3 yards, in packages of 1 dozen	
Boric, 3 „ „ „ „	
Double Cyanide, 3%, 3 „ „ „ „	
Iodoform, 3 „ „ „ „	
„ 1 yard „ „ „ „	
„ 6 yds. × 1 in. „ „ „ „	
Sal Alembroth, 3 yards, in packages of 1 dozen	

Pleated Lint—

Plain, 1 ounce packets, in packages of 1 dozen	
--	--

Dressings, Pleated, Compressed, 'Tabloid' Brand—continued**Pleated Lint—continued**

Plain, 2 ounce packets, in packages of 1 dozen

Boric, 1 „ „ „ „

„ 2 „ „ „ „

Carbolised 1 „ „ „ „

Pleated Tow—

Carbolised, 2 ounce packets, in packages of 1 dozen.

Pleated Tissue—

Absorbent Wool between Gauze, 2 ounce packets, in packages of 1 dozen.

DRESSINGS, SURGICAL, 'WELLCOME'**Brand—****(NOT COMPRESSED)****Cotton Wool, Double Cyanide, 3%—**

In 8 ounce and 16 ounce packets.

Ear Drums, Artificial (Dr. Ward Cousins' design)—

A perfect protective to the inner ear. Made in four sizes.

Trade
Mark

'ELIXOID' BRAND PRODUCTS

The word 'ELIXOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Elixoid' Brand Products provide agreeably flavoured, elegant and acceptable fluid preparations of drugs.

'ELIXOID' BRAND—**„ Ammonium Valerianate—**

Bottles containing 8 fluid ounces.

„ Formates Compound—

Each fluid ounce contains:—Calcium Formate, gr. 12 ;

Sodium Formate, gr. 6 ; Magnesium Formate, gr. 6.

Bottles containing 4 fluid ounces.

„ Glycerophosphates—

Bottles containing 4 fluid ounces.

„ Pine Tar Compound—

Bottles containing 4 fluid ounces.

Also various other preparations issued under the 'Elixoid' Brand.

Trade
Mark

'ENULE' BRAND RECTAL SUPPOSITORIES

The word 'ENULE' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

The 'Enule' rectal suppository possesses conspicuous advantages over those of the ordinary

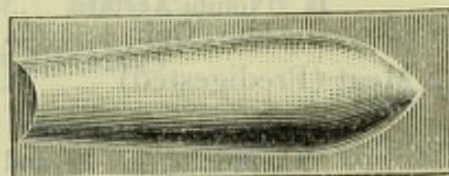


Enule' Brand Rectal Suppository
after removal of sheath.

This shape originated by
Burroughs Wellcome & Co.

conical shape, which are difficult to introduce, and are sometimes even expelled, 'Enule' suppositories are encased in sheaths of pure tinfoil, easily stripped off at

the moment of using. They contain accurate doses of pure drugs, their active principles are evenly diffused throughout the mass, and they will retain the full activity of the medication for a long period of time.



'Enule' Brand Rectal Suppository
showing sheath of pure tinfoil.

This shape originated by
Burroughs Wellcome & Co.

'Enule' Brand Rectal Suppositories must be kept in a cool and dry place.

PROF. CASPARI, in his *Treatise on Pharmacy*, says:—

"The usual shape of rectal suppositories is that of a cone with a rounded apex, but the difficulty of readily introducing them into the rectum has led to the designing of a new shape by H. S. Wellcome, of London, the great advantages of which become apparent when it is Expert remembered that the bulbous end is inserted into the rectum, opinion and, that as soon as the greatest diameter has been passed, expulsion of the suppository is impossible, by reason of the very contractile force of the sphincter muscle, which renders retention of the ordinary conical shape often so difficult."

Each kind is packed in boxes of a dozen (of one strength)

ENULE' BRAND—

DIRECTION

„ Belladonna Extract	gr. 1/4, gr. 1/2 and gr. 1	One as required
„ Bismuth Subgallate	gr. 10	One as required
„ Cocaine Hydrochloride	gr. 1/2	One as required
„ Gall and Opium	... ..	One as required
℞ Acidi Tannici	... .. gr. 3	
Ext. Opii	... .. gr. 1/4	
„ Glycerin (Anhydrous)	95% Adults' or Children's sizes	One as required

Enule Brand Rectal Suppositories—continued

'ENULE' BRAND—continued		DIRECTION
„ 'Hazeline' Com-pound	Containing 'Hazeline,' Extract of Hamamelis and Zinc Oxide. (See also 'Hazeline' Suppositories).	One as required
„ 'Hemisine' (Trade Mark)	0.001 gm., equivalent to 1 c.c. (16 minims) of 'Hemisine' Solution (1 in 1000).	One as required
„ Lead and Opium	... .. ℞ Plumbi Acetatis ... gr. 3 Pulv. Opii ... gr. 1	One as required
„ Meat (Predigested)	Children's and Adults' sizes. Containing gr. 8½ and gr. 15, respectively, of concentrated peptone from choice fresh beef.	One as required
„ Milk (Predigested)	Children's and Adults' sizes. Containing gr. 10 and gr. 18, respectively, of concentrated peptone from new milk.	One as required
„ Morphine and Belladonna	... .. ℞ Morphinae Hydrochloridi ... gr. 1/4 Ext. Belladonnae ... gr. 1/2	One as required
„ Morphine Hydrochloride	gr. 1/4, gr. 1/2 and gr. 1	One as required
„ Opium Extract	gr. 1	One as required
„ Quassin (Amorphous)	gr. ½	One on each of at least twelve successive nights
„ Quinine Bisulphate	gr. 5	One as required
„ Santonin	... .. gr. 3	One as required
„ Soap Compound	... .. ℞ Saponis Animalis ... gr. 7 Sodii Sulphatis Exsiccati ... gr. 7	One as required

Also various other products issued under the 'Enule' Brand.

'ERNUTIN'*(Trade Mark)*

'Ernutin' is a physiologically standardised product, presenting the active therapeutic principles of Ergot. It is the result of extensive researches in the Wellcome Physiological Research Laboratories.

'Ernutin'—(For oral administration), in 1 ounce bottles.

'Ernutin' (**Hypodermic**)—For hypodermic and intramuscular injection. In hermetically-sealed phials, each containing min. 10. Boxes of 6.

N.B.—'Ernutin' preparations should be protected from light.

Trade
Mark

'FAIRCHILD' DIGESTIVE PREPARATIONS

DOSE

'Panopepton' (<i>Trade Mark</i>)	...	...	A wineglassful as required
'Pepsencia' (<i>Trade Mark</i>)...	...	...	1 teaspoonful as required
Pepsin ('Fairchild'), Powder or Scales	...	...	gr. 5 to gr. 10
'Peptogenic Milk Powder' (<i>Trade Mark</i>)	...	...	As required
'Zymine' (Ext. Pancreatis) (<i>Trade Mark</i>)	...	...	gr. 2 to gr. 5
'Zymine' (<i>Trade Mark</i>) Peptonising Tubes	...	...	As required

'Pepule' Brand Products—*(Trade Mark)***'PEPULE' BRAND—**

* ,, Pepsin	...	gr. 1, gr. 3, sugar-coated	1 or more
* ,, Pepsin and 'Zymine'	...	,, ,,	1
℞ Pepsini	...	...	gr. 2
'Zymine'	...	...	gr. 3
* ,, 'Zymine'	...	gr. 3, sugar-coated	1 to 2
(<i>Trade Mark</i>)	...	...	...
* ,, 'Zymine' Compound	...	,, ,,	1 to 3
℞ 'Zymine'	...	...	gr. 2
Bismuthi Subnitrat	...	...	gr. 3
Pulv. Ipecacuanhæ	...	...	gr. 1/10

* BURROUGHS WELLCOME & Co. have ceased to prepare 'Tabloid' products of the 'Fairchild' digestive ferments, and now supply 'Pepule' products of these ferments, which are prepared by FAIRCHILD BROS. & FOSTER.

'TABLOID'

is the trade mark of
Burroughs Wellcome & Co.

'PEPULE'

is the trade mark of
Fairchild Bros. & Foster

Trade Mark **'HAZELINE' BRAND PREPARATIONS**

DOSE

- 'Hazeline' Brand of distilled *Hamamelis virginiana*. An anodyne and styptic fluid obtained by distillation from the fresh young twigs. dr. 1 to dr. 3
- 'Hazeline' Cream, in collapsible tubes and glass pots. Combines the anodyne astringent properties of 'Hazeline' with the emollient action of 'Dartring' Lanoline. —
- "'Hazeline' Snow," (Trade Mark) A non-greasy preparation, owing its astringent, soothing and healing properties to the presence of a high proportion of 'Hazeline.' —
- 'Hazeline' Suppositories. Containing pure 'Hazeline' One as required
- (See also 'Enule' 'Hazeline' Compound)

Also various other products issued under the 'Hazeline' Brand.

'Hemisine'

(Trade Mark)

A preparation of the active principle of the medulla of the supra-renal gland. (See 'Enule' 'Hemisine'; 'Tabloid' Ophthalmic 'Hemisine'; 'Soloid' 'Hemisine' and combinations; and 'Tabloid' 'Hemisine')

HYPODERMIC APPARATUS

Needles for B. W. & Co. Syringes—

(For full list, see B. W. & Co.'s General Price List)

SYRINGES

All-Glass Aseptic Hypodermic Syringe, The B. W. & Co.

Barrel, piston and nozzle consist entirely of glass. The solid piston obviates use of packing. May be instantly taken apart for rendering aseptic. Two sizes, min. 15 and min. 20, with two steel needles. A detachable finger-grip (nickel-plated) for this syringe can be supplied.

(If desired, platino-iridium needles can be fitted)

Hypodermic Apparatus—continued**Hypodermic Syringe, The B. W. & Co.**

Solid Silver. Nozzle detachable, so that the solution of a 'Tabloid' Hypodermic product may be effected in the barrel. With two platino-iridium needles, in case. Capacity, min. 20.

Nickel-plated. With two needles. Capacity, min. 15 or min. 20.

(If desired, platino-iridium needles can be fitted)

Serum Syringe, The B. W. & Co. All-Glass Aseptic

The working parts are composed entirely of glass, the needle being attached to the nozzle by a flexible rubber joint which guards against fracture. In five sizes, 2 c.c., 3 c.c., 5 c.c., 10 c.c. and 25 c.c., with two steel needles in metal case.

(If desired, platino-iridium needles can be fitted)

Serum Syringe, The B. W. & Co. Nickel-plated

In metal case, complete, with two platino-iridium needles, capacity 5 c.c. or 10 c.c.

HYPODERMIC PRODUCTS, 'TABLOID' Brand

The word 'TABLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

"They are quite free from objectionable and irritative salts."
—*British Medical Journal*.

"They are very soluble and not at all irritating."—*Lancet*.

'Tabloid' Hypodermic products accurately contain the stated weight of pure medicament. They are rapidly soluble, of uniform activity, and they keep perfectly. They are packed in tubes containing 20, with the exception of those marked with an asterisk, which are in tubes of 12.

PREPARATION	STRENGTH	DOSE
'TABLOID' BRAND		
(Hypodermic)—		
„ Aconitine Nitrate ...	... gr. 1/640	gr. 1/640
„ *Anæsthetic Compound, A ...	...	As required
℞ Cocainæ Hydrochloridi...	gr. 1/10	
Morphinæ Hydrochloridi	gr. 1/50	
Sodii Chloridi ...	gr. 1/5	

* In tubes of 12 only (all others contain 20)

Hypodermic Products, 'Tabloid' Brand—continued

PREPARATION	STRENGTH	DOSE
'TABLOID' BRAND		
(Hypodermic)—		
„ *Anæsthetic Compound, B	...	As required
℞ Cocainæ Hydrochloridi...	gr. 1/5	
Morphinæ Hydrochloridi	gr. 1/50	
Sodii Chloridi ...	gr. 1/5	
„ *Anæsthetic Compound, C	...	As required
℞ Eucainæ Hydrochloridi	gr. 7/16	
Sodii Chloridi ...	gr. 3-1/2	
„ Apomorphine Hydrochloride	gr. 1/20	} gr. 1/20 to gr. 1/10
„ „ „	gr. 1/15	
„ „ „	0.005 gm.	
„ „ „	gr. 1/10	
„ * { Apomorphine Hydrochloride	gr. 1/10	} One
{ Strychnine Hydrochloride ...	gr. 1/60	
„ Atropine Sulphate ...	... gr. 1/150	} gr. 1/200 to gr. 1/100 (in- creased)
„ „ „	... gr. 1/100	
„ „ „	... 0.001 gm.	
„ „ „	... gr. 1/60	
„ *Caffeine Sodio-salicylate	... 0.03 gm.	} gr. 1/2 to gr. 4
„ * „ „ „	... gr. 1/2	
„ Cocaine Hydrochloride	... gr. 1/10	} gr. 1/10 to gr. 1/2
„ „ „	... 0.01 gm.	
„ „ „	... gr. 1/6	
„ * „ „ „	... 0.015 gm.	
„ * „ „ „	... gr. 1/4	
„ * „ „ „	... 0.02 gm.	
„ * „ „ „	... gr. 1/2	
„ Codeine Phosphate ...	... gr. 1/4	gr. 1/4 to gr. 2
„ *Cotarnine Hydrochloride	... gr. 1/4	gr. 1/4 to gr. 1/2
„ Curare ...	... gr. 1/12	gr. 1/12 to gr. 1/2
„ Digitalin (Amorphous)	... gr. 1/100	gr. 1/500 to gr. 1/30
„ „ (Crystalline)	0.0005 gm.	gr. 1/500 to gr. 1/130
„ { Digitalin (Amorphous)	... gr. 1/100	} One to two
{ Strychnine Sulphate	... gr. 1/100	
„ Ergotinine Citrate ...	... gr. 1/200	} gr. 1/200 to gr. 1/50
„ „ „	0.0005 gm.	
„ „ „	... gr. 1/100	
„ * { Ergotinine Citrate ...	... gr. 1/100	} One
{ Morphine Sulphate ...	... gr. 1/6	

* In tubes of 12 only (all others contain 20)

Hypodermic Products, 'Tabloid' Brand—continued

PREPARATION	STRENGTH	DOSE
'TABLOID' BRAND		
(Hypodermic)—		
" * { Ergotinine Citrate ...	... gr. 1/100 }	One
" * { Strychnine Sulphate...	... gr. 1/20 }	
" * Ergotoxine ...	... gr. 1/100	gr. 1/100 to gr. 1/50
" Eserine (<i>see Physostigmine</i>)		
" * Eucaïne Hydrochloride ...	gr. 1/3	} gr. 1/3 to gr. 2
" * " " " ...	gr. 1	
" * Eucaïne Lactate ...	gr. 1/3	} gr. 1/3 to gr. 2
" * " " " ...	gr. 1	
" Heroin Hydrochloride ...	gr. 1/25	} gr. 1/25 to gr. 1/12
" " " " ...	gr. 1/12	
" Homatropine Hydrochloride...	gr. 1/250	gr. 1/250 to gr. 1/20
" Hydrargyri Perchloridi (<i>see Mercuric Chloride</i>)		
" Hydrargyri Succinimidi (<i>see Mercuric Succinimide</i>)		
" Hyoscine Hydrobromide ...	gr. 1/200	} gr. 1/200 to gr. 1/100 (in- creased)
" * " " " ...	gr. 1/100	
" * " " " ...	gr. 1/75	
" * Hyoscine Compound, A ...	...	One
R Hyoscinae Hydrobromidi ...	gr. 1/100	
Morphinae Sulphatis ...	gr. 1/6	
Atropinae Sulphatis ...	gr. 1/180	
" * Hyoscine Compound, B ...	...	One
R Hyoscinae Hydrobromidi ...	gr. 1/100	
Morphinae Sulphatis ...	gr. 1/4	
Atropinae Sulphatis ...	gr. 1/150	
" * Hyoscyamine Sulphate ...	gr. 1/80	} gr. 1/200 to gr. 1/100 (in- creased)
" * " " " ...	gr. 1/20	
" Mercuric Chloride ...	0.001 gm.	} gr. 1/60 to gr. 1/30
" " " " ...	gr. 1/60	
" " " " ...	gr. 1/30	
" Mercuric Succinimide...	gr. 1/5	gr. 1/6 to gr. 1/4
" Morphine Bimeconate ...	gr. 1/8	} gr. 1/8 to gr. 1/4 (in- creased)
" " " " ...	gr. 1/6	
" " " " ...	gr. 1/4	
" " " " ...	gr. 1/3	
" Morphine Hydrochloride ...	0.01 gm.	} gr. 1/8 to gr. 1/4 (in- creased)
" " " " ...	gr. 1/6	
" " " " ...	0.015 gm.	

* In tubes of 12 only (all others contain 20)

Hypodermic Products, 'Tabloid' Brand—continued

PREPARATION	STRENGTH	DOSE
'TABLOID' BRAND		
(Hypodermic)—		
„ Morphine Hydrochloride ...	gr. 1/4	} gr. 1/8 to gr. 1/4 (in- creased)
„ „ „ ...	0.02 gm.	
„ * „ „ ...	gr. 1/3	
„ * „ „ ...	gr. 1/2	
„ { Morphine Hydrochloride ...	gr. 1/6	} One
„ { Atropine Sulphate ...	gr. 1/70	
„ Morphine Sulphate ...	gr. 1/12	} gr. 1/8 to gr. 1/4 (in- creased)
„ „ „ ...	gr. 1/8	
„ „ „ ...	0.01 gm.	
„ „ „ ...	gr. 1/6	
„ „ „ ...	0.015 gm.	
„ „ „ ...	gr. 1/4	
„ „ „ ...	0.02 gm.	
„ * „ „ ...	gr. 1/3	
„ * „ „ ...	0.03 gm.	
„ * „ „ ...	gr. 1/2	
„ * „ „ ...	0.05 gm.	
„ * „ „ ...	gr. 1	
„ { Morphine Sulphate ...	gr. 1/12	} One of required strength
„ { Atropine Sulphate ...	gr. 1/250	
„ { Morphine Sulphate ...	gr. 1/8	
„ { Atropine Sulphate ...	gr. 1/200	
„ { Morphine Sulphate ...	gr. 1/6	} One of required strength
„ { Atropine Sulphate ...	gr. 1/180	
„ { Morphine Sulphate ...	gr. 1/4	
„ { Atropine Sulphate ...	gr. 1/150	
„ { Morphine Sulphate ...	gr. 1/3	} One of required strength
„ { Atropine Sulphate ...	gr. 1/120	
„ { Morphine Sulphate ...	gr. 1/3	
„ { Atropine Sulphate ...	gr. 1/60	
„ * { Morphine Sulphate ...	gr. 1/2	} One
„ * { Atropine Sulphate ...	gr. 1/100	
„ { Morphine Sulphate ...	gr. 1/4	} One
„ { Strychnine Sulphate ...	gr. 1/60	
„ Morphine Tartrate ...	gr. 1/4	gr. 1/8 to gr. 1/4 (in- creased)
„ Nitroglycerin (<i>see Trinitin</i>)		

* In tubes of 12 only (all others contain 20)

Hypodermic Products, 'Tabloid' Brand—continued

PREPARATION	STRENGTH	DOSE
'TABLOID' BRAND		
(Hypodermic)—		
„ Physostigmine Salicylate (Eserine Salicylate) gr. 1/100	{ gr. 1/100 to gr. 1/25
„ Picrotoxin gr. 1/60	gr. 1/100 to gr. 1/25
„ Pilocarpine Nitrate gr. 1/10	{ gr. 1/20 to gr. 1/2
„ „ „ ...	... 0.01 gm.
„ „ „ ...	... gr. 1/6
„ * „ „ ...	... gr. 1/3
„ * „ „ ...	... gr. 1/2
„ *Potassium Permanganate gr. 2	gr. 1 to gr. 3
„ *Quinine Bihydrochloride gr. 1	{ gr. 1 to gr. 5
„ * „ „ ...	... gr. 3
„ * „ „ ...	... gr. 5
„ *Quinine Bisulphate gr. 5	gr. 1 to gr. 5
„ *Quinine Hydrobromide 0.03 gm.	{ gr. 1/2 to gr. 2
„ * „ „ ...	... gr. 1/2
„ * „ „ ...	... 0.05 gm.
„ *Sparteine Sulphate gr. 1/2	gr. 1/2 to gr. 1
„ Strophanthin gr. 1/500	gr. 1/500 to gr. 1/100
„ Strychnine Hydrochloride gr. 1/200	{ gr. 1/150 to gr. 1/10
„ „ „ ...	... gr. 1/100
„ „ „ ...	... gr. 1/30
„ Strychnine Nitrate ...	0.0005 gm.	{ gr. 1/150 to gr. 1/10
„ „ „ ...	... 0.001 gm.
„ „ „ ...	... gr. 1/15
„ „ „ ...	... gr. 1/10
„ Strychnine Sulphate gr. 1/150	{ gr. 1/150 to gr. 1/10
„ „ „ ...	... gr. 1/100
„ „ „ ...	... gr. 1/60
„ „ „ ...	... gr. 1/50
„ „ „ ...	... gr. 1/40
„ „ „ ...	... gr. 1/30
„ Trinitrin (Nitroglycerin) gr. 1/250	{ gr. 1/250 to gr. 1/50
„ „ „ ...	... gr. 1/100

Also various other Hypodermic products issued under the 'Tabloid' Brand.

* In tubes of 12 only (all others contain 20)

Trade
Mark 'KEPLER' MALT EXTRACT AND
COMBINATIONS

REMEMBER THE TRADE MARK

Verbal instructions are not safe. To prevent fraud it is best to write prescriptions for original bottles.

Dose—Of all 'Kepler' Preparations, one teaspoonful to one tablespoonful.

PREPARATION AND STRENGTH

'KEPLER' BRAND MALT EXTRACT—

A most reliable and highly-concentrated extract, prepared from the finest winter-malted barley. Its medicinal value depends not only on its high diastatic powers, but also on the albuminoids, phosphates, etc., which it contains.

Ditto with Beef and Iron

Ditto with Cascara Sagrada

Each fluid ounce contains Extract of Cascara Sagrada, gr. 6

Ditto with Chemical Food (*Phosphates Compound*)

Each fluid ounce contains Iron Phosphate, gr. 2; Calcium Phosphate, gr. 3; Sodium Phosphate, gr. 1/4; Potassium Phosphate, gr. 1/4

Ditto with Hæmoglobin

Ditto with Hypophosphites

Each fluid ounce contains Calcium Hypophosphite, gr. 8; Potassium Hypophosphite, gr. 4; and Sodium Hypophosphite, gr. 4

Ditto with Iron

Each fluid ounce contains Soluble Iron Pyrophosphate, gr. 4

Ditto with Iron and Quinine Citrate

Each fluid ounce contains Iron and Quinine Citrate, gr. 7-1/2

Ditto with Iron Iodide

Each fluid ounce contains Iron Iodide, gr. 2

Ditto with Iron, Quinine and Strychnine (*Easton*)

Each fluid ounce contains Iron Phosphate gr. 1/2; Quinine Phosphate, gr. 3/8; Strychnine Phosphate, gr. 1/64

Ditto with Pepsin

Each fluid ounce contains pure Pepsin, gr. 1

Ditto with Pepsin and Pancreatin

Each fluid ounce contains pure Pepsin and pure Pancreatin, of each gr. 1/2

Ditto with Phosphorus

Each fluid ounce contains pure Phosphorus, gr. 1/64

'Kepler' Malt Extract and Combinations—continued**'KEPLER' SOLUTION (OF COD LIVER OIL IN MALT EXTRACT)—**

Cod Liver Oil is the premier fatty food. It is unequalled for its power of supplying fat to the body, and for the readiness with which it is oxidised. Moreover, it is an important agent in sparing the consumption of tissue, proteid and carbohydrate.

The great usefulness of cod liver oil has been largely discounted by the unpleasant effects—nausea, eructations and alimentary disturbance—which often follow the administration of even the purest oil.

'Kepler' Solution of Cod Liver Oil in Malt Extract is unique in its palatability and in the ease and completeness with which it is assimilated. It presents the purest cod liver oil incorporated in the best malt extract. The oil is thoroughly diffused in the 'Kepler' Malt Extract, and this molecular incorporation renders its digestion easy and its assimilation certain. So palatable is 'Kepler' Solution that children and fastidious patients take it readily, whilst it is absorbed without difficulty by the most tender organism. The high food value of this product is shown by rapid increase in the strength and weight of the patient.

Initial doses should be small and only gradually increased.

Ditto with Chemical Food (*Phosphates Compound*)

Each fluid ounce contains Iron Phosphate, gr. 2; Calcium Phosphate, gr. 3; Sodium Phosphate, gr. $\frac{1}{4}$; Potassium Phosphate, gr. $\frac{1}{4}$

Ditto with Hypophosphites

Each fluid ounce contains Calcium Hypophosphite, gr. 4; Potassium Hypophosphite, gr. 2; and Sodium Hypophosphite, gr. 2

Ditto with Iron Iodide

Each fluid ounce contains Iron Iodide, gr. 2

Ditto with Phosphorus

Each fluid contains Phosphorus, gr. $\frac{1}{64}$

Also various other preparations issued under the 'Kepler' Brand.

'Lanesine,' 'Dartring' Brand

For counteracting insect stings. In collapsible tubes.

Lanoline (*see* 'Dartring' Brand products, page 113)

Lint, Pleated, Plain and Medicated, Compressed, 'Tabloid' Brand (*see* page 115)

Malt Extract (*see* 'Kepler')

Medicine Chests and Cases, 'Tabloid' Brand (*see* pages 93-102)

Menthol Compound Plasters (B. W. & Co.)

Menthol Snuff (B. W. & Co.)

An extremely effective and convenient combination of Ammonium Chloride, Menthol, Eucaine Lactate (1/3 per cent.), etc., issued in enamelled tins, after the manner of old-fashioned black and gold snuff-boxes.

Methyl Alcohol (Pure)

For use in microscopic staining. In hermetically-sealed glass phials, each containing 15 c.c.

Metric System

A series of products, specially suitable for the use of those employing the metric system, is now issued under the 'Tabloid' and 'Soloid' brands; and, in view of the prominence now being given to the metric system, it is believed that the medical profession will accord these products a favourable reception.

Opa' (formerly known as 'SALODENT')

An aromatic, antiseptic liquid dentifrice. Bottles containing 2 and 4 fluid ounces (with sprinklers).

OPHTHALMIC PRODUCTS**'TABLOID' Brand**

The word 'TABLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Tabloid' Ophthalmic products are minute in size, as thin as notepaper, and contain exact doses of pure drugs, prepared with a perfectly innocuous and rapidly soluble basis. They are supplied in tubes of 25 (*Exact Doses* except C, CC, DD, E, FF, G, L, O, W, Y and Z, which contain 12).

Ophthalmic Products, 'Tabloid' Brand—continued**'TABLOID' BRAND****(Ophthalmic)—**

„ T	Alum	...	...	gr. 1/250
„ EE	Argyrol	...	...	gr. 1/24
„ X	Atropine Sulphate	...	...	gr. 1/600
„ A	„	...	...	gr. 1/200
„ B	{ Atropine Hydrobromide	...	gr. 1/200	
	{ Cocaine Hydrochloride	...	gr. 1/200	
„ AA	Cocaine Hydrochloride	...	gr. 1/50	
„ C	„	...	gr. 1/20	
„ BB	Dionin	...	0.0005 gramme	
„ FF	„	...	0.005 gramme	
	Eserine (<i>see</i> Physostigmine)			
„ Y	Euphthalmine Hydrochloride	...	gr. 1/40	
„ Z	Fluorescein	...	gr. 1/250	
„ CC	'Hemisine' (<i>Trade Mark</i>)	...	0.0006 gramme	

'Hemisine' products present the active principle of the medulla of the supra-renal gland, having the characteristic vaso-constrictor, hæmostatic and astringent properties. They differ from other preparations in being issued in a dry, soluble state, and in being permanent in all climates and constant in action.

„ H	Homatropine Hydrochloride	...	gr. 1/400	
„ E	„	...	gr. 1/40	
„ O	{ Homatropine Hydrochloride	...	gr. 1/240	
	{ Cocaine Hydrochloride	...	gr. 1/24	
„ W	{ Homatropine Hydrochloride	...	gr. 1/50	
	{ Cocaine Hydrochloride	...	gr. 1/50	
„ U	Hyoscine Hydrobromide	...	gr. 1/600	
„ GG	Physostigmine Salicylate	...	gr. 1/2000	
„ F	„	...	gr. 1/600	
„ G	{ Physostigmine Salicylate	...	gr. 1/500	
	{ Tropacocaine Hydrochloride	...	gr. 1/100	
„ K	Pilocarpine Nitrate	...	gr. 1/400	
„ M	{ Pilocarpine Nitrate	...	gr. 1/500	
	{ Cocaine Hydrochloride	...	gr. 1/200	
	Scopolamine (<i>see</i> Hyoscine)			
„ L	Tropacocaine Hydrochloride	...	gr. 1/30	

Ophthalmic Products, 'Tabloid' Brand—continued**'TABLOID' BRAND****(Ophthalmic)—**

„ R	Zinc Sulphate	...	...	gr. 1/250
„ DD	{ Zinc Sulphate	...	...	gr. 1/250
	{ Cocaine Hydrochloride	...	...	gr. 1/20

Also various other Ophthalmic products issued under the
'Tabloid' Brand.

OPHTHALMIC PRODUCTS**'SOLOID' Brand**

The word 'SOLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'SOLOID' BRAND**(Ophthalmic)—**

„ J	Corrosive Sublimate (<i>Hydrarg. Perchlor.</i>)	gr. 1/1000, tubes of 25
-----	---	-------------------------

For other 'Soloid' Brand Products suitable for ophthalmic use, see pages 138-143.

'Paroleine' A perfectly stable, odourless, colourless and (*Trade Mark*) tasteless oil. It is a good solvent of many of the remedies employed in treating diseases of the nose and throat.

'Paroleine' Atomisers (B. W. & Co.) (*see page 111*)
(*Trade Mark*)

PASTILLES, 'TABLOID' BRAND

The word 'TABLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'Tabloid' Pastilles ensure the gradual and prolonged application to the throat and mouth of medicaments, which are presented in a most pleasant condition; they are also employed in certain cases to obtain the general effect of the drug. By their use, astringents, antiseptics, anæsthetics, expectorants and laxatives can be conveniently exhibited. The basis of the pastille is demulcent, increasing the efficacy of the active ingredients.

Pastilles, 'Tabloid' Brand—continued**'TABLOID' BRAND—**

,, Ammonium Chloride and Liquorice

Each contains Ammonium Chloride, gr. 1

,, Benzoic Acid Compound

℞ Acidi Benzoici ...	...	...	gr. 1/2
Codeinæ ...	...	...	gr. 1/10
Menthol ...	...	...	gr. 1/10
Pulv. Ipecacuanhæ ...	...	...	gr. 1/10
Cocainæ Hydrochloridi ...	...	...	gr. 1/40
Gummi Rubri ...	...	...	gr. 1/2

,, Cocaine Hydrochloride, gr. 1/10

,, Codeine, gr. 1/8

,, Glycerin

,, Glycerin and Black Currant

,, Glycerin, Tannin and Black Currant

Each contains Tannin, gr. 1/2

,, Glycerin, Tannin, Capsicum and Black Currant

Each contains Tannin, gr. 1/2, and the equivalent of Tinct. Capsici, P.B., min 0.75, equal to Pulv. Capsici, gr. 3/80.

,, Laxative Fruit

Each contains Extract of Senna Fruit, gr. 5, pleasantly flavoured. The 'Tabloid' Pastille is extremely palatable, and facilitates the administration, to children and fastidious patients, of an efficient laxative.

,, Lemon Juice

,, Linseed, Liquorice and Chlorodyne

Each contains Morphine Hydrochloride, gr. 1/120

,, Menthol, gr. 1/8

,, Menthol and Eucalyptus

℞ Menthol ...	...	...	gr. 1/20
Olei Eucalypti ...	...	...	min. 1/2

,, Morphine and Ipecacuanha

℞ Morphinæ Hydrochloridi ...	...	gr. 1/36
Pulv. Ipecacuanhæ ...	...	gr. 1/12

,, Pectoral

Containing Ammoniated Liquorice, Squill, Tolu, Senega, Ipecacuanha, Virginian Prune, etc.

,, Pine Tar Compound

,, 'Pinol,' min. 1

,, Red Gum and Cocaine

℞ Gummi Rubri ...	...	gr. 1
Cocainæ Hydrochloridi ...	...	gr. 1/20

,, Rhatany, Menthol and Cocaine

℞ Extract Kramerizæ ...	...	gr. 2
Menthol ...	...	gr. 1/20
Cocainæ Hydrochloridi ...	...	gr. 1/20

'Phenofax' 'PHENOFAX' ANTISEPTIC SEDATIVE DRESSING
(*Trade Mark*) presents 7 per cent. of pure phenol in a bland basis which is notable for its sedative effect on the skin and mucous surfaces. It disinfects, encourages granulation, and allays pain.

PHOTOGRAPHIC CHEMICALS

'TABLOID' Brand

The word 'TABLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

Pure and reliable 'Tabloid' Photographic Chemicals are much more convenient than ordinary chemicals; their superior quality and accurate weight ensure the best results. They entirely obviate the trouble of weighing small quantities of chemicals and the disappointments occasioned by the deterioration of stock solutions. They enable the tourist to carry all the requisite materials for developing, fixing, etc., with convenience, comfort and safety. At home they save time and trouble.

Developers

The developers are packed in cartons, each containing the 'Tabloid' Reducing Agent, and the 'Tabloid' Accelerator specially prepared for use with that reducing agent.

'TABLOID' BRAND

(Photographic)—

- „ Amidol Developer
- „ Edinol Developer
- „ Eikonogen Developer
- „ Glycin Developer
- „ Hydroquinone (Quinol) Developer
- „ Metol Developer
- „ Metol-Quinol Developer
- „ Ortol Developer
- „ Paramidophenol Developer
- „ Pyro Developer
- „ Pyro-Metol Developer (*Imperial Standard Formula*)
- „ *Pyro-Soda Developer (*Ilford Formula*)

* In ordering this special developer, it is always necessary to quote "Ilford formula."

Photographic Chemicals, 'Tabloid' Brand—*continued*

Accessories

'TABLOID' BRAND

Photographic—

STRENGTH

,, *Alkali*—

,, 'Tabloid' Sodium Carbonate ... gr. 44

,, *Clearing and Hardening*—

,, 'Tabloid' Alum ... gr. 10

,, 'Tabloid' Alum and Citric Acid Compound (Chrome Alum, gr. 5; Citric Acid, gr. 5; Sodium Sulphite, gr. 20)

,, *Density Reducers*—

,, 'Tabloid' Ammonium Persulphate ... gr. 11

,, 'Tabloid' Potassium Ferricyanide ... gr. 2

,, *Hypo Eliminator*—

,, 'Tabloid' Potassium Percarbonate ... gr. 3

,, *Intensifiers*—

,, 'Tabloid' Chromium Intensifier

,, 'Tabloid' Mercuric Iodide and Sodium Sulphite

,, *Preservatives*—

,, 'Tabloid' Potassium Metabisulphite ... gr. 10

,, 'Tabloid' Sodium Sulphite, Dried, gr. 5 Equals gr. 10 of crystals

,, *Restrainers*—

,, 'Tabloid' Potassium Bromide ... gr. 1

,, 'Tabloid' Ammonium Bromide ... gr. 1

,, 'Tabloid' Sodium Citrate ... gr. 1

Fixer

'TABLOID' BRAND

(Photographic)—

,, Sodium Thiosulphate ('Hypo'), Dried, } Equals gr. 44
gr. 28.5 } of crystals

Sensitiser (for Carbon Tissue)

'TABLOID' BRAND

(Photographic)—

,, Potassium Ammonium Chromate, gr. 24

Photographic Chemicals, 'Tabloid' Brand—continued**Toners****'TABLOID' BRAND****(Photographic)—**

- „ Gold Chloride, gr. $\frac{1}{2}$, with Borax, gr. 15 (B 1)
 „ „ „ „ Sodium Bicarbonate, gr. 15 (B 2)
 „ „ „ „ Sodium Phosphate, gr. 15 (B 3)
 „ „ „ „ Sodium Tungstate, gr. 15 (B 4)
 „ „ „ „ Sodium Formate Compound (B 5)
 „ „ „ „ Sulphocyanide Compound (B 6)
 „ „ „ „ Thiosulphate Compound

(Combined Bath for toning and fixing P.O.P.) (B 10)

The above are supplied in cartons containing sufficient for the preparation of six toning baths of 5 to 10 ounces or more. For convenience they may be ordered by their numbers, thus :—'Tabloid' Gold Toning, B 1, B 2, etc.

- „ Copper Ferrocyanide Toning Compound (*for toning Bromide Prints and Lantern Slides*)
 „ Platinum Toning Compound (*for toning Matt P.O.P.*)
 „ Sepia Toner (*for Bromide Prints and Lantern Slides*)

Also various other photographic products issued under the 'Tabloid' Brand.

PHOTOGRAPHIC EXPOSURE RECORD AND DIARY, WELLCOME'S

The most useful pocket-book for the photographer. Contains ruled pages for recording exposures, a diary for the year, also numerous technical articles and tables, and an exposure calculator which tells the correct exposure under any circumstance by *one turn of one scale*, etc., etc.

NORTHERN HEMISPHERE EDITION, for Europe, Canada, and all countries in the Northern Hemisphere except United States of America. Bound in light green cloth.

SOUTHERN HEMISPHERE AND TROPICAL EDITION, for all countries south of the Tropic of Cancer (about 20° N.). Bound in dark green cloth.

UNITED STATES EDITION. Bound in red cloth.

Each edition complete with wallet for proofs, etc., and pencil.

PHOTOGRAPHIC OUTFIT, 'TABLOID' Brand

A complete and compact chemical outfit for developing and fixing plates, films, bromide or 'gaslight' papers, and for toning and fixing P.O.P.

STANDARD CONTENTS:—

'Tabloid' Metol-Quinol Developer to make 44 ounces of solution; 'Tabloid' Pyro Developer to make 40 ounces of solution; 'Tabloid' Combined Toner and Fixer to make 30 ounces of solution; 'Tabloid' Hypo; 'Tabloid' Potassium Bromide, gr. 1.

Outside measurements, $4\frac{1}{2} \times 4\frac{1}{4} \times 2$ in. In japanned metal case.

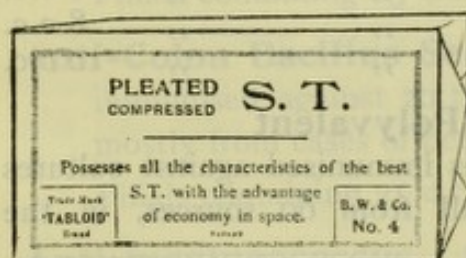
'Pinol' (*Distilled Essence of the Pinus Pumilio*) (Trade Mark)

A valuable stimulant, disinfectant and antiseptic in respiratory affections.

$\frac{1}{2}$ oz. and 1 oz. bottles.

SANITARY TOWELS, PLEATED COMPRESSED, 'TABLOID' Brand

Pleated Sanitary Towels possess several points of superiority over ordinary commercial sanitary towels. They are made of



Pleated Sanitary Towel (No. 4)
Half size.

materials of exceptional quality specially adapted for the purpose. Their highly absorbent properties are particularly noteworthy. The delicate texture of the surface of these towels ensures perfect freedom from the slightest sense of discomfort in use. Owing to the extremely small space which they occupy, they are particularly convenient when travelling. Extreme compactness is secured by compression, and perfect cleanliness ensured by the method of packing.

Five sizes are issued, each size in packages of 12.

'Saxin,' gr. $\frac{1}{4}$, in bottles of 100, 200 and 500.
(Trade Mark)

SERUMS, 'WELLCOME' Brand

The high reputation which these serums have with the medical profession is constantly confirmed by the favourable reports received, and the accumulating evidence proves this high reputation to be deserved.

The 'Wellcome' Serums are prepared in the Wellcome Physiological Research Laboratories, Brockwell Hall, London, S.E., under conditions which fulfil every requirement of modern science and under the immediate supervision of specialists of long and varied experience. The serums are not sent out until they have successfully passed rigorous sterility and toxicity tests; they are then issued in hermetically-sealed phials of convenient sizes.

Burroughs Wellcome & Co. act as distributing agents, and will endeavour to despatch orders for these serums immediately on receipt of letter or telegram.

Diphtheria Antitoxic Serum ('Wellcome')

Phials containing 1000, 2000, 3000 and 4000 (Ehrlich-Behring) units.

High Potency:

Phials containing	1000	(Ehrlich-Behring) units in	1 c.c.
"	2000	"	2 c.c.
"	3000	"	3 c.c.
"	4000	"	4 c.c.
"	5000	"	5 c.c.
"	6000	"	6 c.c.
"	8000	"	8 c.c.
"	10,000	"	10 c.c.

Anti-streptococcus Serum, Polyvalent

('Wellcome'): from horses immunised against cultures of streptococci coming in all from 60 sources, in the following diseases:—

ERYSIPELAS, SCARLET FEVER, PUERPERAL FEVER, RHEUMATIC FEVER, SEPTICÆMIA, ANGINA, PNEUMONIA, ULCERATIVE ENDOCARDITIS.

Phials containing 10 c.c., 25 c.c. and 50 c.c.

Anti-streptococcus Serum, Erysipelas

('Wellcome'): from horses immunised against cultures from typical cases of erysipelas:—

Phials containing 25 c.c. and 50 c.c.

Serums, 'Wellcome' Brand—continued**Anti-streptococcus Serum, Puerperal Fever**

('Wellcome') : from horses immunised against cultures from 26 severe (some fatal) cases of puerperal fever :—

Phials containing 25 c.c. and 50 c.c.

Anti-streptococcus Serum, Pyogenes

('Wellcome') : from horses immunised against 9 cultures of *Streptococcus pyogenes* from fatal cases :—

Phials containing 25 c.c. and 50 c.c.

Anti-streptococcus Serum, Rheumatic Fever

('Wellcome') : from horses immunised against cultures from severe cases of acute rheumatism and of rheumatoid arthritis :—

Phials containing 25 c.c. and 50 c.c.

Anti-streptococcus Serum, Scarletina

('Wellcome') : from horses immunised against cultures from 8 severe (some fatal) cases of scarlet fever :—

Phials containing 25 c.c. and 50 c.c.

Anti-staphylococcus Serum, Polyvalent

('Wellcome') : from horses immunised against various cultures of *Staphylococcus pyogenes aureus*, *albus*, *citreus* and *hæmorrhagicus* :—

Phials containing 25 c.c. and 50 c.c.

Anti-Colon Bacillus Serum ('Wellcome') : from horses immunised against 20 typical members of the Coli group, mostly from cases of peritonitis and puerperal fever :—

Phials containing 25 c.c. and 50 c.c.

Anti-meningococcus Serum ('Wellcome') : from horses immunised against cultures of Meningococcus (*Micrococcus Meningitidis intracellularis*) obtained from several different sources :—

Phials containing 25 c.c. and 50 c.c.

Anti-gonococcus Serum ('Wellcome') : from horses immunised against cultures of Gonococcus obtained from several different sources :—

Phials containing 25 c.c. and 50 c.c.

Serums, 'Wellcome' Brand—continued

Anti-dysentery Serum ('Wellcome'): from horses immunised against cultures of *Bacillus Dysenteriae* obtained from several cases of dysentery:—

Phials containing 25 c.c. and 50 c.c.

Anti-venom Serum ('Wellcome'): from horses immunised against the venom of typical representatives of columbrine, viperine and other poisonous snakes:—

Phials containing 25 c.c. and 50 c.c.

Normal Horse Serum ('Wellcome')

Phials containing 10 c.c. and 25 c.c.

Mallein ('Wellcome'), for diagnosis of Glanders,

Phials containing 2.5 c.c. (sufficient for one injection).

Anti-tetanus Serum, Liquid

Phials containing 10 c.c.

Anti-tetanus Serum, Dried

Tubes containing the equivalent of 10 c.c. of liquid serum.

Serum Syringes (see page 121)

Trade
Mark

'SOLOID' BRAND PRODUCTS

The word 'SOLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. To ensure the supply of these pure and reliable preparations, this brand should always be specified when ordering.

The series of 'Soloid' Brand products provides reliable antiseptics, astringents and anæsthetics; also convenient means of preparing stains for microscopic work and test solutions for water, sewage, or urine analysis. Their portability, accuracy in dosage, uniform activity and ready solubility render them far preferable to stock solutions.



'SOLOID' BRAND—				STRENGTH	Issued in	
					bots. of	bots. of
„ Alum	...	...	...	gr. 10	—	100
„ Alum and Zinc Compound,						
Strong	...	...	...		25	—
℞ Aluminis	...	...	gr. 30			
Zinci Sulphatis	...	...	gr. 15			
„ Alum and Zinc Sulphate	...				25	—
℞ Aluminis	...	...	gr. 15			
Zinci Sulphatis	...	...	gr. 15			

'Soloid' Brand Products—continued				Issued in	
'SOLOID' BRAND—				bots. of	bots. of
		STRENGTH			
„	Argyrol, tubes of 12 ...	gr. 1	—	—	—
„	„ tubes of 6 ...	gr. 5.45	—	—	—
„	Atropine Sulphate, tubes of 6	gr. 0.545	—	—	—
„	Atropine and Cocaine, tubes of 6 ...	—	—	—	—
	℞ Atropinæ Sulphatis	gr. 0.272	—	—	—
	Cocainæ Hydrochloridi	gr. 1.09	—	—	—
„	Boric Acid (<i>scented with Otto of Rose</i>) ...	gr. 6	25	—	—
„	Boric Acid (<i>unscented</i>) ...	gr. 15	50	—	—
„	Boric Acid and Zinc Sulphate (<i>scented with Otto of Rose</i>)	—	25	—	—
	℞ Acidi Borici ...	gr. 6	—	—	—
	Zinci Sulphatis ...	gr. 1/2	—	—	—
„	Carbolic Acid, tubes of 25 ...	gr. 5	—	—	—
„	„ „ „ 12 ...	gr. 20	—	—	—
„	„ „ „ 6 ...	gr. 60	—	—	—
„	Chinosol ...	gr. 1.75	25	—	—
„	„ „ „ „ ...	gr. 8.75	25	100	—
„	Cocaine Hydrochloride, tubes of 25 ...	gr. 1/2	—	100	—
„	Cocaine Hydrochloride ...	gr. 1	25	100	—
„	„ „ „ „ ...	gr. 5	25	—	—
„	Cocaine and Eucaïne, āā ...	gr. 1/2	25	—	—
„	Copper Sulphate ...	gr. 1	—	100	—
„	Corrosive Sublimate (Hydrarg. Perchlor.) (<i>Ophthalmic</i>), tubes of 25 (<i>see page 130</i>)	gr. 1/1000	—	—	—
„	Corrosive Sublimate (Hydrarg. Perchlor. ...)	gr. 1.75	—	100	—
„	Corrosive Sublimate (Hydrarg. Perchlor.) ...	gr. 8.75	25	100	—
„	Corrosive Sublimate (Hydrarg. Perchlor.) ...	gr. 17.5	—	100	—
„	Corrosive Sublimate (Hydrarg. Perchlor.) ...	0.5 gm.	25	100	—
„	Corrosive Sublimate (Hydrarg. Perchlor., tubes of 10 ...)	1 gm.	25	—	—
„	Eucaïne Hydrochloride ...	gr. 1	25	—	—
„	„ „ „ „ ...	gr. 5	25	—	—
„	„ Lactate ...	gr. 1	25	—	—
„	„ „ „ „ ...	gr. 5	25	—	—

'Soloid' Brand Products—continued

			Issued in	
'SOLOID' BRAND—			bots. of	bots. of
	STRENGTH			
„ Ferric Chloride	gr. 10		—	100
It represents the amount of ferric chloride contained in 40 minims of Liquor Ferri Perchloridi, P.B.				
„ 'Hemisine' (Trade Mark), tubes				
of 6	0.0012 gm.		—	—
	(approx. gr. 1/50)			
„ „ „ tubes				
of 6	0.005 gm.		—	—
	(approx. gr. 1/12)			
„ Hemisine and Cocaine, tubes				
of 12			—	—
R 'Hemisine'	gr. 1/200			
Cocainæ Hydrochloridi	gr. 1/8			
„ Hemisine' Compound with				
Eucaïne, No. 1, tubes of 6			—	—
R 'Hemisine'	0.001 gm.			
Sodii Chloridi	0.8 gm.			
Eucaïnæ Hydrochloridi	0.2 gm.			
„ 'Hemisine' Compound with				
Eucaïne, No. 2, tubes of 12			—	—
(One-tenth the strength of No. 1)				
One 'Soloid' 'Hemisine' Compound with Eucaïne No. 1, dissolved in 100 c.c. of water, or one 'Soloid' 'Hemisine' Compound with Eucaïne No. 2, dissolved in 10 c.c. of water, gives a solution containing 'Hemisine' 1 in 100,000 and Eucaïne Hydrochloride 2 in 1000.				
„ 'Hemisine' with Atropine				
Sulphate (for intravenous injection), tubes of 12 ...			—	—
R 'Hemisine'	0.0002 gm.			
Atropinæ Sulphatis	0.001 gm.			
'Hemisine' products present the active principle of the medulla of the supra-renal gland, having the characteristic vaso-constrictor, hæmostatic and astringent properties. They differ from all other preparations in being issued in a dry, soluble state, and in being permanent in all climates and constant in action.				

'Soloid' Brand Products—continued

Solid' Brand Products—continued		Issued in bottles of bottles of	
'SOLOID'	BRAND—	STRENGTH	
,,	Homatropine and Cocaine, tubes of 6		— —
R	Homatropinæ Hydro- bromidi ... gr. 0·545		
	Cocainæ Hydro- chloridi ... gr. 1·09		
,,	Homatropine Hydrobromide, tubes of 6	gr. 0·545	— —
,,	Homatropine Methylbromide and Cocaine, tubes of 6 ...		— —
R	Homatropinæ Methyl- bromidi ... gr. 0·545		
	Cocainæ Hydro- chloridi .. gr. 1·09		
,,	Lead and Opium Lotion ...		25 —
R	Plumbi Acetatis ... gr. 2		
	Tinct. Opii ... min. 20		
,,	Lead Subacetate	gr. 10	25 —
	'Soloid' Lead Subacetate is prepared from basic lead acetate, and not from normal lead acetate.		
,,	L. G. B.		— 100
	One dissolved in a pint of water forms the Solution of Corrosive Sublimate, 1 in 1000, advised by the Local Government Board Memorandum, 1892.		
,,	Mercuric Potassium Iodide <i>(formerly known as Iodic-Hydrarg.)</i> , tubes of 25 ...	gr. 1·75	— 100
,,	Mercuric Potassium Iodide ...	gr. 4·37	25 100
,,	" " " " " " " "	gr. 8·75	25 100
	Gr. 8·75 in one pint, gr. 4·37 in half-a-pint, or gr. 1·75 in four ounces of water = 1 in 1000 solution (frequently known as Mercury Biniiodide Solution)		
,,	Nasal, Alkaline Compound ...		— 100
R	Boracis ... gr. 5		
	Sodii Chloridi ... gr. 5		
,,	Nasal, Antiseptic and Alka- line Compound		— 100
R	Sodii Bicarbonatis gr. 5		
	Acidi Carbolici ... gr. 1/2		
	Boracis ... gr. 5		
,,	Nasal, Phenol Compound ...		25 —
R	Sodii Bicarbonatis gr. 12		
	Acidi Carbolici ... gr. 1-1/2		
	Sodii Chloridi ... gr. 2		

'Soloid' Brand Products—continued				Issued in	
'SOLOID' BRAND—				bots. of	bots. of
STRENGTH					
,, Nasal, 'Eucalyptia' Com-					
pound	...	...	...	—	100
R Sodii Bicarbonatis	gr. 8				
Boracis	...	gr. 8			
Sodii Benzoatis	...	gr. 1/3			
Sodii Salicylatis	...	gr. 1/3			
Eucalyptol	...	min. 1/6			
Thymol	...	gr. 1/6			
Menthol	...	gr. 1/12			
Ol. Gaultheriæ	...	min. 1/12			
,, Nasal, Sodium Bicarbonate					
Compound	...	...	...	—	100
R Sodii Bicarbonatis	gr. 5				
Boracis	...	gr. 5			
Sodii Chloridi	...	gr. 5			
,, Nasal, Sodium Bicarbonate					
Compound, Saccharated	...	...	...	—	100
R Sodii Bicarbonatis	gr. 5				
Boracis	...	gr. 5			
Sodii Chloridi	...	gr. 5			
Sacchari Albi	...	gr. 5			
,, Naso-Pharyngeal Compound				25	100
R Sodii Chloridi	...	gr. 7			
Boracis	...	gr. 2-1/2			
Acidi Borici	...	gr. 3/4			
Sodii Benzoatis	...	gr. 1/2			
Menthol	...	gr. 1/50			
Thymol	...	gr. 1/100			
Cocainæ Hydrochloridi	...	gr. 1/6			
Ol. Gaultheriæ	...	min. 1/20			
,, 'Nizin' (Trade Mark)				—	100
A zinc salt of sulphanilic acid					
,, Paraform				—	100
,, Potassium Permanganate				—	100
,, " "				25	100
,, Potassium Permanganate and					
Alum	...	...	...	—	100
R Potassii Permanganatis	gr. 3				
Aluminis	...	gr. 5			
,, Protargol				—	100
,, " "				25	100
,, Silver Nitrate				25	—
,, " "				25	—
,, Sodium Bicarbonate				25	—
,, " Carbonate				—	100

'Soloid' Brand Products—continued

		Issued in	
		bots. of	bots. of
'SOLOID' BRAND—	STRENGTH		
„ Saline Compound, tubes of 12		—	—
℞ Calcii Chloridi ...	gr. 7/10		
Potassii Chloridi ...	gr. 7/10		
Sodii Chloridi ...	gr. 31-1/2		
Sodii Bicarbonatis...	gr. 7/20		
Dextrosi ...	gr. 3-1/2		
Two in 16 fluid ounces of boiled (sterile) water for intravenous injection at 100° F. (37·8° C.)			
„ Sodium Chloride, tubes of 12	gr. 30	—	—
Two dissolved in a pint (20 fluid ounces) of boiled (sterile) water, for intravenous injection at 100° F. (37·8° C), give a solution containing 0·685 per cent. of sodium chloride.			
„ Sodium Chloride, tubes of 6	gr. 60	—	—
One in a pint (20 fluid ounces) of boiled (sterile) water, for intravenous injection at 100° F. (37·8° C.)			
„ Sodium Chloride Compound, tubes of 12		—	—
℞ Sodii Chloridi ...	gr. 25		
Sodii Sulphatis ...	gr. 1-1/4		
Sodii Carbonatis ...	gr. 1-1/4		
Sodii Phosphatis ...	gr. 1		
Potassi Chloridi ...	gr. 1-1/2		
Two in a pint (20 fluid ounces) of boiled (sterile) water, for intravenous injection at 100° F. (37·8° C.)			
„ Zinc Chloride ...	gr. 5	25	—
„ Zinc Permanganate ...	gr. 1/8	—	100
„ Zinc Sulphate ...	gr. 1	—	100
„ „ „ ...	gr. 10	—	100
„ Zinc Sulphocarbolate...	gr. 2	—	100
„ „ „ ...	gr. 10	—	100

Also a wide range of other products issued under the 'Soloid' Brand.

'SOLOID' BRAND PRODUCTS FOR TESTING PURPOSES, etc.

For Urine Analysis

'SOLOID' BRAND—	STRENGTH	Issued in	
		tubes of	
„ Citric Acid ...	gr. 1	20	
„ Fehling's Test, for preparing Fehling's Solution, cartons of 24			

'Soloid' Brand Products for Testing purposes, etc.—continued**For Urine Analysis—continued**

'SOLOID' BRAND—	STRENGTH	Issued in tubes of
,, Indigo Test for Sugar (Sodium Nitro-phenyl-propionate)	gr. 1/4	20
,, Picric Acid	gr. 1	20
,, Potassium Ferrocyanide	gr. 1	20
,, Salicyl-sulphonic Acid	gr. 2	16

For Water Analysis

'SOLOID' BRAND—	STRENGTH
,, Ammonium Chloride... ..	0.00016 gm.
,, Lead Acetate	0.0184 gm.
,, Meta-phenylenediamine Sulphate	0.01 gm.
,, Oxalic Acid	0.1 gm.
,, Potassium Chromate... ..	0.0065 gm.
,, Potassium Ferrocyanide	0.013 gm.
,, Potassium Iodide and Starch	
,, Potassium Nitrate	0.00144 gm.
,, Potassium Permanganate	0.000395 gm.
,, Silver Nitrate... ..	0.0097 gm.
,, Soap	
,, Sodium Acid Sulphate	0.324 gm.
,, Zinc Dust	0.13 gm.
,, Zinc Sulphide	0.25 gm.

In packages of 25

,, Nessler's Solution, in hermetically-sealed glass capsules.

Boxes of 30 capsules, each containing ... 0.5 c.c.

,, 24 ,, ,, ... 2.0 c.c.

For Sewage Analysis

'SOLOID' BRAND—	STRENGTH
,, Oxalic Acid	0.0079 gm.
,, Potassium Permanganate	0.00395 gm.
,, Pyrogalllic Acid	0.032 gm.
,, Sodium Hydroxide	0.13 gm.

*In packages of 25***Test Indicators****'SOLOID' BRAND—**

,, *Indigo-Carmine

'Soloid' Brand Products for Testing Purposes, etc.—continued**Test Indicators—continued****'SOLOID' BRAND—** STRENGTH

„ *Lacmoid	
„ *Methyl-Orange	
„ *Phenolphthalein	
„ *Rosolic Acid	
„ Starch	0.5 gm.

* One dissolved in 10 c.c. of solvent forms the Test Indicator.

In tubes of 10

Microscopic Stains**'SOLOID' BRAND—** STRENGTH

„ Bismarck Brown, pure	0.1 gm.
„ Borax Methylene Blue	
„ Ehrlich Triple Stain	
„ Eosin-Azur (for Giemsa staining with one solution)	
„ Eosin, pure	0.1 gm.
„ Eosin-methylene Blue (Louis Jenner's Stain)	0.05 gm.
„ Fuchsin, pure	0.1 gm.
„ Gentian Violet, pure	0.1 gm.
„ Gram's Iodine Solution	15 c.c.
„ Hæmatoxylin (Delafield)	
„ Hæmatoxylin, pure	0.1 gm.
„ Methylene Blue, pure	0.1 gm.
„ Methyl Violet, pure	0.1 gm.
„ Romanowsky Stain (Leishman's Powder)	0.015 gm.
„ Sodium Carbonate	0.05 gm.
„ Thionin Blue, pure	0.1 gm.
„ Toison Blood Fluid	

In tubes of 6

Methyl Alcohol (pure), for use in microscopic staining; in hermetically-sealed glass phials, each containing 15 c.c.

Also a wide range of other products issued under the 'Soloid' Brand.

Strophanthus, Concentrated Tincture of,**'Wellcome' Brand**

(Physiologically standardised in the Wellcome Physiological Research Laboratories.) (See page 221)

Strophanthus Tincture (B. W. & Co.)

(*Physiologically standardised in the Wellcome Physiological Research Laboratories.*)

Prepared in accordance with the British Pharmacopœia, 1898, from carefully selected *Strophanthus* seeds.

Strophanthus Tincture, 'Tabloid' Brand (*see* page 174)

Suppositories (*see* 'Enule' Rectal Suppositories, pages 117-118; and 'Hazeline' Suppositories, page 120)

Surgical Dressings, Compressed, 'Tabloid' Brand
(*see* pages 114-116)

Syringes, Hypodermic and Serum (*see* pages 120-121)

Trade
Mark

'TABLOID' BRAND PRODUCTS

The word 'TABLOID' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

Under the 'Tabloid' Brand is issued an immense variety of drugs and their combinations, all prepared from the purest ingredients, and divided into accurate doses with due regard to their therapeutic uses. They require no weighing or measuring, accurate doses can be immediately administered, and they keep unchanged in any climate. Owing to their extreme portability, supplies may be comfortably carried in the waistcoat pocket, and doses taken regularly whilst following the usual routine of social, professional, or commercial life. 'Tabloid' Brand products of unpleasant drugs are coated with a thin film of white sugar, readily soluble in the stomach, while those intended to act after leaving the stomach are coated with keratin, soluble only in the alkaline secretions of the intestines.

Accurate dosage	'TABLOID' BRAND—	DOSE	Issued in	
			oval bts. of	bts. of
	„ Acetanilide (<i>see</i> Antifebrin)			
	„ Acetyl-salicylic Acid (<i>see</i> Xaxa, page 176)			
	„ Aconite Tincture, B.P., min. 1/4 and min. 1	} I frequently	100	—
	„ „ „ min. 5		36	100

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

				Issued in	
DOSE				oval bots. of	bots. of
,, Aloes and Iron (B.P. Pill),					
	gr. 4	I to 2		—	100
Each contains approximately:—					
Dried Sulphate of Iron, gr. 1/2;					
Barbadoes Aloes, gr. 1; Com-					
pound Powder of Cinnamon,					
gr. 1-1/2					
,, Aloes and Myrrh (B.P. Pill),					
	gr. 4	I to 2		—	100
Each contains approximately:—					
Socotrine Aloes, gr. 2, and					
Myrrh, gr. 1					
,, Aloin, gr. 1/10				100	—
,, ,, gr. 1/2				25	100
,, Aloin Compound				50	100
R Aloini gr. 1/5					
Strychninæ Sulpha-					
tis gr. 1/60					
Ext. Belladonnæ ... gr. 1/8					
Pulv. Ipecacuanhæ gr. 1/16					
,, Ammoniated Quinine ... I				25	100
Each contains quinine sulphate					
and ammonium bicarbonate to					
correspond with one fluid					
drachm of the B.P. tincture.					
,, Ammonium Bromide, gr. 5 ...				—	100
,, ,, ,, gr. 10 ...				—	100
,, ,, ,, 0.5 gm. ...				25	100
,, ,, ,, 1.0 gm. ...				25	—
,, Ammonium Carbonate, gr. 3				—	100
,, ,, ,, 0.25 gm. ...				—	100
,, Ammonium Chloride, gr. 3...				25	100
,, ,, ,, gr. 5... ..				—	100
,, ,, ,, gr. 10				—	100
,, ,, ,, 0.25 gm. ...				25	100
,, ,, ,, 0.5 gm. ...				25	100
,, Ammonium Chloride and					
Borax				—	100
,, Ammonium Chloride and					
Liquorice				25	100
R Ammonii Chloridi... gr. 3					
Ext. Glycyrrhizæ ... gr. 2					
,, Ammonium Chloride Com-					
pound				25	100
R Ammonii Chloridi gr. 1					
Potassii Chloridi ... gr. 2					
Pulv. Cubebæ .. gr. 1/4					
Ext. Glycyrrhizæ ... gr. 1					

'Tabloid' Brand Products—continued

		Issued in	
'TABLOID' BRAND—	DOSE	oval bts. of	bts. of
„ Antifebrin (Acetanilide), gr. 2	I to 2	25	100
„ „ „ gr. 5	I (<i>in special cases</i>)	25	100
„ „ „ 0.25 gm.	I	25	100
„ Antifebrin Compound ...	I	—	100
℞ Antifebrini (Acetanilidi, P.B.) ...	gr. 2		
Camphoræ Monobromatæ ...	gr. 1		
Caffeinæ Citratis ...	gr. 1		
„ Antipyrine (Phenazone),			
gr. 2-1/2	I to 4 or more	25	100
„ „ „ gr. 5	I to 4	25	100
„ „ „ 0.25 gm.	I to 4	25	100
„ „ „ 0.5 gm.	I to 2	25	100
„ 'Aol' (<i>Trade Mark</i>), a derivative of <i>Santalum album</i> , 0.3 gm. (approx. gr. 5), boxes of 50...	2 or more		
„ Apomorphine Compound ...	I as required	25	100
℞ Apomorphinæ Hydrochloridi	gr. 1/50		
Ammonii Chloridi	gr. 3		
Ext. Glycyrrhizæ	gr. 1-1/2		
„ Apomorphine Hydrochloride, gr. 1/50 ...	I to 3 (<i>expectorant</i>)	50	—
„ Aromatic Chalk Powder with Opium, B.P., gr. 5 ...	2 to 4 or more	25	100
Each contains approximately:— Chalk, gr. 1; Opium, gr. 1/8, with aromatics.			
„ Arsenical Compound... ..	I to 2	—	100
℞ Acidi Arseniosi ...	gr. 1/100		
Ferri Sulphatis Exsiccati	gr. 1		
Calcii Sulphidi ...	gr. 1/4		
Ext. Gentianæ ...	gr. 2		
„ Arsenious Acid, gr. 1/100 ...	I to 6	100	—
„ „ „ gr. 1/50 ...	I to 3	100	—
„ „ „ gr. 1/20 ...	I	100	—
„ „ „ 0.001 gm.	I to 3	100	—
„ „ „ 0.0025 gm.	I to 2	100	—
„ „ „ 0.005 gm.	I	100	—

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—				oval bots. of	bots. of
DOSE					
,, Asafetida and Opium Com-					
pound	...	...	1 to 2	—	100
R Asafetidæ					
Camphoræ					
Pulv. Opii					
Pulv. Piperis Nigri					
	āā	gr. 1			
,, 'Aspirin,' gr. 5				25	100
,, ,, 0.5 gm.				25	100
,, Astringent Mixture				—	100
R Confectionis Aromat.					
(P.B., 1885)					
Pulv. pro Mist.					
Cretæ					
	gr.	20			
Ammon. Bicarb.					
	gr.	1/2			
Tinct. Catechu					
	min.	15			
Tinct. Cardamomi					
Comp.					
	min.	9			
Tinct. Opii					
	min.	1-1/2			
Olei Cinnamomi					
	min.	1/8			
,, Atropine Sulphate, gr. 1/100				50	—
,, Belladonna Tincture, B.P.,					
	min. 1	1 frequently		100	—
,, ,, ,, min. 5				48	100
,, Benzoic Acid, gr. 5				—	100
,, Benzoic Acid Compound				25	100
R Acidi Benzoici					
	gr.	1/2			
Codeinæ					
	gr.	1/10			
Menthol					
	gr.	1/10			
Pulv. Ipecacuanhæ					
	gr.	1/10			
Cocainæ					
Hydrochloridi					
	gr.	1/40			
Ol. Menthæ Piperitæ					
	min.	1/16			
Gummi Rubri					
	q.s.				
,, Benzo-Naphthol, gr. 5				—	100
,, Beta-Naphthol, gr. 3...				—	100
,, ,, 0.25 gm.				—	100
,, Beta-Naphthol Compound				25	100
R Beta-Naphthol					
	gr.	1			
Carbonis Ligni					
	gr.	4			
Ol. Menthæ					
Piperitæ					
	min.	1/2			
,, Bismuth and Dover Powder...				—	100
R Bismuthi					
Subnitratæ					
	gr.	2-1/2			
Pulv. Ipecac. ē					
Opio					
	gr.	2-1/2			
,, Bismuth and Soda				—	100
R Bismuthi					
Subnitratæ...					
	gr.	2-1/2			
Sodii Bicarbonatis					
	gr.	2-1/2			

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

		DOSE	Issued in	
			oval bts. of	bts. of
„ Bismuth and Soda ...	...	1 to 4 or more	25	100
℞ Bismuthi Subnitrat				
Sodii Bicarbonatis, āā	0.25 gm.			
„ Bismuth Carbonate, gr. 5 ...		1 to 4	25	100
„ „ „ „ 0.5 gm.		1 to 3	25	100
„ Bismuth, Rhubarb and Soda...		1 to 4	25	100
℞ Bismuthi				
Subnitrat	gr. 3			
Pulv. Rhei...	gr. 1			
Sodii Bicarbonatis	gr. 2			
„ Bismuth Salicylate (<i>physio-</i>				
<i>logically pure</i>), gr. 5 ...		1 to 4	—	100
„ Bismuth Salicylate (<i>physio-</i>				
<i>logically pure</i>), 0.5 gm. ...		1 to 3	—	100
„ Bismuth Subgallate, gr. 5 ...		1 to 4	25	100
„ Bismuth Subnitrate, gr. 5 ...		1 to 4	25	100
„ „ „ „ gr. 10 ...		1 to 2	—	100
„ „ „ „ 0.5 gm....		1 or more	25	100
„ Blaud (Pil. Ferrugin.), gr. 5 ...		1 to 3	—	100
„ „ „ „ gr. 8 ...		1 to 2	—	100
„ „ „ „ 0.25 gm.		1 or more	—	100
„ Blaud Pill and Aloin ...		1 to 4	—	100
℞ Pil. Ferrugin.				
(Blaud) ...	gr. 4			
(= 20 % Ferri Carbonatis)				
Aloini ...	gr. 1/20			
„ Blaud Pill and Aloin...		1 or more	—	100
℞ Pil. Ferrugin.				
(Blaud)...	0.25 gm.			
(= 20 % Ferri Carbonatis)				
Aloini ...	0.005 gm.			
„ Blaud Pill and Arsenic ...		1 to 4	—	100
℞ Pil. Ferrugin.				
(Blaud) ...	gr. 4			
(= 20 % Ferri Carbonatis)				
Acidi Arseniosi ...	gr. 1/64			
„ Blaud Pill and Cascara ...		1 increased	—	100
℞ Pil. Ferrugin.				
(Blaud)...	gr. 4	to 4		
(= 20 % Ferri Carbonatis)				
Ext. Cascarae				
Sagradae ...	gr. 1/2			
„ Blaud Pill and Cascara ...		1 to 4	—	100
℞ Pil. Ferrugin.				
(Blaud)...	0.25 gm.			
(= 20 % Ferri Carbonatis)				
Ext. Cascarae				
Sagradae ...	0.025 gm.			

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—	DOSE	oval bts. of		bts. of	
„ Blaud Pill Compound ...	I	—		100	
℞ Pil. Ferrugin.					
(Blaud)... gr. 10					
(= 20 % Ferri Carbonatis)					
Pulv. Capsici ... gr. 1/4					
Aloini ... gr. 1/30					
Strychninæ ... gr. 1/30					
Acidi Arseniosi ... gr. 1/30					
„ Blaud Pill Compound ...	I	—		100	
℞ Pil. Ferrugin.					
(Blaud)... 0.5 gm.					
(= 20 % Ferri Carbonatis)					
Pulv. Capsici ... 0.015 gm.					
Aloini ... 0.002 gm.					
Strychninæ ... 0.002 gm.					
Acidi Arseniosi ... 0.002 gm.					
„ Blaud Pill with Arsenic and Strychnine ...	I to 4	—		100	
℞ Pil. Ferrugin.					
(Blaud)... gr. 5					
(= 20 % Ferri Carbonatis)					
Acidi Arseniosi ... gr. 1/100					
Strychninæ ... gr. 1/100					
„ Blaud Pill with Arsenic and Strychnine...	I to 4	—		100	
℞ Pil. Ferrugin.					
(Blaud)... 0.25 gm.					
(= 20 % Ferri Carbonatis)					
Acidi Arseniosi ... 0.0005 gm.					
Strychninæ ... 0.0005 gm.					
„ Blue Pill, gr. 4 ...	I to 2	25		100	
Each contains gr. 1-1/3 of pure Metallic Mercury.					
„ Blue Pill and Rhubarb Com- pound ...	I to 2	—		100	
℞ Pil. Hydrargyri, P.B. gr. 2-1/2					
Pil. Rhei Comp., P.B. gr. 2-1/2					
„ Blue Pill, Colocynth and Hyoscyamus ...	I to 2	25		100	
℞ Pil. Hydrargyri, P.B. gr. 2					
Pil. Colocynthidis et Hyoscyami, P.B.... gr. 4					
„ Blue Pill, Squill and Digitalis	I	—		100	
℞ Pil. Hydrargyri, P.B. gr. 1					
Pulv. Scillæ ... gr. 1-1/2					
Pulv. Digitalis ... gr. 1					
„ Bone Medulla, gr. 5, boxes of 50 ...	I or more	—		—	
„ Borax, gr. 5 ...	I to 4 or more	25		100	
„ Boric Acid, gr. 5 ...	I to 3	—		100	

'Tabloid' Brand Products—continued

				Issued in	
'TABLOID' BRAND—		DOSE	oval bots. of	bots. of	
,, Bromides Compound...		I to 6	—	100	
℞ Sodii Bromidi ... gr. 2					
Strontii Bromidi ... gr. 2					
Ammonii Bromidi... gr. 1					
Sodii Arsenatis ... gr. 1/60					
,, Butyl-Chloral Hydrate and					
Gelsemine ...		I	—	100	
℞ Butyl-Chloral					
Hydratis... gr. 3					
Gelseminæ					
Hydrochloridi ... gr. 1/200					
,, Caffeine Citrate, gr. 2 ...		I to 3	—	100	
,, ,, ,, 0.1 gm. ...		I to 4	—	100	
,, Caffeine Citrate Effervescent,					
B.P., gr. 60, tubes of 25 ...		I to 2	—	—	
,, Caffeine Compound ...		I to 4	25	100	
℞ Caffeinæ ... gr. 1					
Antipyrini					
(Phenazoni) ... gr. 3					
,, Calcium Carbonate Compound		I to 4 before	25	100	
℞ Calcii Carb. Præcip. gr. 3-1/2		meals, or 1			
Mag. Carb. Pond. gr. 2-1/2		occasionally			
Bismuthi Carbonatis gr. 2					
,, Calcium Lactate, gr. 5 ...		I to 3	25	100	
,, Calcium Sulphide, gr. 1/4 ...		I to 4	—	100	
,, ,, ,, gr. 1/2 ...		I to 2	—	100	
,, ,, ,, gr. 1 ...		I	—	100	
,, Calomel, gr. 1/10, gr. 1/6,					
gr. 1/4 and gr. 1/2 ...		I	100	—	
,, Calomel, 0.005 gm. and					
0.01 gm. ...		I or more	100	—	
,, Calomel, gr. 1 ...		I to 5	—	100	
,, ,, gr. 2 ...		I to 3	—	100	
,, ,, gr. 3 ...		I to 2	—	100	
,, ,, gr. 5 ...		I	—	100	
,, ,, 0.1 gm. ...		I to 3	100	—	
,, Calomel and Creosote ...		I to 5	—	100	
℞ Hydrargyri Sub-					
chloridi gr. 1/6					
Creosoti ... min. 1					
,, Calomel and Jalap ...		I to 4	—	100	
℞ Hydrargyri Sub-					
chloridi gr. 1					
Pulv. Jalapæ ... gr. 3					
,, Calomel and Piperine, of each					
gr. 1/2 ...		I to 4	—	100	

'Tabloid' Brand Products—continued

'TABLOID' BRAND—	DOSE	Issued in	
		oval bts. of	bts. of
„ Calomel, gr. 1/2, and Sodium Bicarbonate, gr. 2-1/2 ...	1 or more	25	100
„ Calomel, gr. 1, and Sodium Bicarbonate, gr. 5 ...	1 or more	25	100
„ Calomel Compound (<i>Plummer Pill</i> , B.P.), gr. 4 ...	1 to 2	25	100
„ Camphor Compound Tincture, B.P. (Paregoric), min. 2	1 frequently	100	—
„ „ „ „ min. 5	1 frequently	48	100
„ „ „ „ min. 15	1 to 4	36	100
„ Camphor Essence (Saturated)	2 to 3	25	100
„ Cannabis Indica Tincture, B.P., min. 5	1 to 3	48	100
„ Capsicum Tincture, min. 1 ...	1 frequently	100	—
„ „ „ „ min. 5 ...	1 to 3 or more	—	100
„ Capsules (flexible)—Calcium Iodo-ricinoleate, gr. 3, boxes of 50 ...	1 to 3	—	—
„ Capsules (flexible) — Sandal Wood Oil, min. 5, boxes of 25	1 to 3 or more	—	—
„ Capsules (flexible)—Terebene, min. 5, boxes of 50 ...	1 to 3	—	—
„ Carbolic Acid (Phenol), gr. 1/4 (<i>for the throat</i>) ...	1 as required	25	100
„ Carbolic Acid (Phenol), gr. 1/2 (<i>for the throat</i>) ...	1 as required	25	100
„ Carbolic Acid, gr. 1/2, with Slippery Elm ...	1 occasionally	25	100
„ Carlsbad Salt, Effervescent, Artificial, tubes of 25 ...	1 or more as desired	—	—
„ Cascara Sagrada (Dry Extract), gr. 1	1 or more	25	100
„ „ „ „ gr. 2	1 to 4	25	100
„ „ „ „ gr. 3	1 to 3	25	100
„ „ „ „ gr. 4	1 to 2	25	100
„ „ „ „ gr. 5	1 as required	25	100
„ „ „ „ 0.15 gm.	1 to 4	25	100
„ „ „ „ 0.25 gm.	1 to 2	25	100

'Tabloid' Brand Products— <i>continued</i>			Issued in	
'TABLOID' BRAND—	DOSE		oval bots. of	bots. of
„ Cascara and Gentian				
Compound	1 to 3		25	100
℞ Ext. Cascaræ				
Sagradæ	gr. 2			
Ext. Nucis Vomicae	gr. 1/5			
Ext. Belladonnæ ...	gr. 1/10			
Ext. Gentianæ ...	gr. 1			
Capsicini ...	gr. 1/10			
„ Cascara Compound ...	1 to 4		25	100
℞ Ext. Cascaræ				
Sagradæ	gr. 1			
Ext. Euonymi Sicci	gr. 1/2			
Iridini ...	gr. 1/2			
Ext. Nucis Vomicae	gr. 1/16			
Ext. Hyoscyami				
Viridis	gr. 1/3			
„ Castor Oil, min. 5, boxes of 50	1 or more		—	—
„ Cathartic Compound...	1 to 2		25	100
℞ Ext. Colocynthis				
Comp.	gr. 1-1/3			
Hydrargyri				
Subchloridi	gr. 1			
Ext. Jalapæ ...	gr. 1			
Pulv. Cambogiæ ...	gr. 1/4			
„ Cerebrin, gr. 5	1 or more		—	100
„ Cerium Oxalate, gr. 5	1 to 2		—	100
„ Chalk, Aromatic Powder with				
Opium, B.P., gr. 5	2 to 4 or more		25	100
Each contains approximately:—				
Chalk, gr. 1; Opium gr. 1/8,				
with aromatics.				
„ Charcoal (Pure Willow), gr. 5,	1 or more as		—	40 &
	required			100
„ „ „ 0.25 gm.	1 to 6		25	100
„ Chemical Food (Phosphates				
Compound), = dr. 1/2 of				
Compound Syrup of Phos-				
phates ...	1 or more		25	100
Containing the combined phos-				
phates of iron, calcium, sodium				
and potassium, equivalent to				
drachm 1/2 of standard Com-				
pound Syrup of Phosphates.				
„ Chemical Food (Phosphates,				
Compound), = dr. 1 of Com-				
pound Syrup of Phosphates	1 or more		25	100
Equivalent to drachm 1 of				
standard Compound Syrup				
of Phosphates.				

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—		DOSE	oval bots. of	bots. of	
„ Chloral Hydrate, gr. 5	...	1 to 4	—	100	
„ „ „ gr. 10	...	1 to 2	—	100	
„ „ „ 0.25 gm.	...	1 to 5	25	100	
„ „ „ 1.0 gm.	...	1...	25	—	
„ Chloralamide, gr. 5	...	3 to 6	—	100	
„ Cinchona Tincture, B.P., min. 30	...	1 to 2	36	100	
„ Cinchona Compound Tincture, B.P., min. 30	...	1 to 2	25	100	
„ Citric Acid, gr. 5	...	1 to 4	—	100	
Cocaine Hydrochloride (<i>see</i> 'Soloid' Brand products)					
„ Cocaine Co. (<i>see</i> Voice, page 176)					
„ Codeine, gr. 1/4	...	1 to 4 or more	25	100	
„ „ gr. 1/2	...	1 to 4	25	100	
„ Codeine and Nux Vomica	...	1 to 2	25	—	
℞ Codeinæ Phosphatis	gr. 1				
Ext. Nucis Vomicae	gr. 1/4				
„ 'Coffee-Mint'	...	1 to 4 or more	25	100	
℞ Sodii Bicarbonatis...	gr. 3				
Ammonii					
Bicarbonatis	gr. 1/16				
Ext. Coffeæ	...	gr. 1/2			
Cerii Oxalatis	...	gr. 1/4			
Ol. Menthae Piperitæ	q.s.				
„ Colchicum Compound	...	1 to 2	—	100	
℞ Ext. Colchici	...	gr. 1/2			
Acidi Salicylici	...	gr. 3			
„ Colocynth and Hyoscyamus, (B.P. Pill), gr. 4	...	1 to 2	—	100	
℞ Pil. Colocynthidis					
Comp, P.B., gr. 2-2/3					
Ext. Hyoscyami					
Viridis, gr. 1-1/3					
„ Colocynth Compound (B.P. Pill), gr. 4	...	1 to 2	—	100	
Each contains approximately:					
Colocynth Pulp, gr. 2/3; Bar-					
badoes Aloes, gr. 1-1/3; Scam-					
mony Resin, gr. 1-1/3; Oil of					
Cloves, min. 1/6.					
„ Cotarnine Hydrochloride, gr. 3/4		1 repeated	—	25	
„ Cretæ Arom. c. Opio, Pulv., B.P., gr. 5	...	2 to 4 or more	25	100	
Each contains approximately:—					
Chalk, gr. 1; Opium, gr. 1/8,					
with aromatics.					

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

DOSE

Issued in	
oval bots. of	bots. of

„ Cubeb and Belladonna, <i>Effer- vescent</i>	I as required	—	100
℞ Pulv. Cubebæ ... gr. 1/2			
Ext. Belladonnæ ... gr. 1/20			
„ Cubeb Compound	I as required	25	100
℞ Oleo-resinæ Cubebæ gr. 1/4			
Ammonii Chloridi... gr. 1/2			
Glycyrrhizini ... gr. 1/4			
„ Didymin (Testicular Sub- stance), gr. 5	I increased to 4	—	100
„ Digitalin (Amorphous), gr. 1/100	I to 3	50	—
„ Digitalis Tincture, min. 1 ...	I frequently	100	—
„ „ „ min. 5 ...	I	48	100
„ Donovan Solution, min. 5 ...	I to 4	—	100
One represents min. 5 of Liq. Arsenii et Hydrargyri Iodidi, containing arsenious and mer- curic iodides, of each, gr. 1/22.			
„ Dover Powder (Ipecac. with Opium), gr. 1/4	I frequently	100	—
Each contains Opium and Ipecacuanha, of each gr. 1/40			
„ Dover Powder (Ipecac. with Opium), gr. 5	I to 3	25	100
Each contains Opium and Ipecacuanha, of each gr. 1/2			
„ Dover Powder (Ipecac. with Opium), 0.25 gm.	I to 4	25	100
Each contains Opium and Ipecacuanha, of each 0.025 gm.			
„ Easton Syrup (Iron Phosphate with Quinine and Strych- nine), dr. 1/2	I to 2	25	100
„ Easton Syrup (Iron Phosphate with Quinine and Strych- nine), dr. 1	I	25	100
„ Easton Syrup (Iron Phosphate with Quinine and Strych- nine), 2 c.c....	I to 2	25	100
„ Easton Syrup (Iron Phosphate with Quinine and Strych- nine), 4 c.c....	I	25	100
Presents, in a soluble condition, the amount of iron (ferric state), quinine and strychnine con- tained in corresponding doses of the B.P. Syrup.			

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

DOSE

Issued in
oval
bott. of

,, Effervescent Products (<i>see</i> under the name of each product)				
,, Elaterin, gr. 1/40	...	...	I to 4	25 —
,, Ergotin (Ergot Extract, B.P.),				
	gr. 1		I to 4 or more	— 100
,, " " " "	gr. 2		I to 4	— 100
,, " " " "	gr. 3		I to 3	— 100
,, " " " "	0.25 gm.		I to 2	— 100
,, Ergotin and Strychnine	...		I to 2	— 100
R Ergotini (Ext.				
Ergotæ, P.B.) gr. 3				
Strychninæ Sulphatis gr. 1/30				
,, Erythrol Tetranitrate (Tetra- nitrin), gr. 1/4, tubes of 25...			I to 4	— —
,, Erythrol Tetranitrate (Tetra- nitrin), gr. 1/2	...	...	I to 2	25 —
,, Erythrol Tetranitrate (Tetra- nitrin), gr. 1	...	...	I	12 —
,, Euonymin (Euonymus Dry Extract, B.P.), gr. 1/8	...		I to 4 or more	50 —
,, Euonymin (Euonymus Dry Extract, B.P.), gr. 1/2	...		I to 4	50 —
,, Euquinine, gr. 5	...	...	I to 2	25 100
,, Exalgin, gr. 2	...	...	I to 2	— 100
,, Fellis Bovini Purificati, gr. 4			I to 4	— 100
,, Fellis Porcini Purificati, gr. 4			I to 4	— 100
,, Ferric Chloride, min. 10	...		I	— 100
One represents the amount of Ferric Chloride in min. 10 of Tinct. Ferri Perchloridi, P.B. It contains a small quantity of ammonium chloride as a vehicle.				
,, Ferric Chloride and Arsenic...			I	— 100
R Tinct. Ferri				
Perchloridi ... min. 10				
Acidi Arseniosi ... gr. 1/30				
,, Ferruginous (<i>see</i> Blaud)				
,, Ferrum (<i>see</i> Iron)				
,, 'Forced March' (<i>see</i> 'Tabloid' Kola Compound)				

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

		Issued in	
	DOSE	oval bts. of	bots. of
„ Galbanum Comp. (Asafetida Compound) (B.P. Pill), gr. 4	1 to 2	—	100
Each contains approximately: Asafetida, Galbanum and Myrrh, of each gr. 1-1/7			
„ Gelsemium Tincture, B.P., min. 5	1 to 3	48	100
„ Gentian and Soda Compound	1 to 4 or more	—	100
R Sodii Bicarbonatis gr. 3 { Ammonii Carbonatis = Sp. Ammon. Arom. min. 3 Inf. Gentianæ Comp. fl. dr. 2-1/2			
„ Ginger Essence (Soluble), min. 5	1 to 4	48	100
„ „ „ min. 10	1 to 2	—	100
„ Glycerophosphates Compound, dr. 1/2	1 to 4	25	100
Each contains Calcium, Sodium, Potassium, Magnesium and Iron Glycerophosphates, Kola, Pepsin and Diastase, with gr. 1/800 of Strychnine Glycerophosphate, and is equivalent to 1/2 fluid drachm of Syrup of Glycerophosphates.			
„ Glycerophosphates Compound, 2 c.c.	1 to 4	25	100
Each contains Calcium, Sodium, Potassium, Magnesium and Iron Glycerophosphates, Kola, Pepsin and Diastase, with 0.00009 gm. of Strychnine Glycerophosphate, and is equivalent to 2 c.c. of Syrup of Glycerophosphates.			
„ Gregory Powder (Rhubarb Co. Powder), gr. 5	1 to 4 or more	25	100
Each contains: — Rhubarb, gr. 1-1/9; Heavy Magnesia, gr. 3-1/3; and Ginger, gr. 5/9			
„ Grey Powder, gr. 1/4, gr. 1/3 and gr. 1/2	1 repeated	100	—
„ „ „ gr. 1	1 to 5	100	—
„ „ „ gr. 2	1 to 3	—	100
„ „ „ gr. 3	1 to 2	—	100
„ „ „ gr. 5	1	—	100
„ „ „ 0.05 gm.	1 or more	100	—

'Tabloid' Brand Products—continued			Issued in	
'TABLOID' BRAND—	DOSE	oval bols. of	bols. of	
„ Grey Powder, 0.15 gm. ...	1 to 3	—	100	
The 'Tabloid' products contain 33-1/3 per cent. of pure metallic mercury.				
„ Grey Powder and Dover Powder, of each gr. 1/2 ...	1 to 5 or more	—	100	
Each contains : — Mercury, gr. 1/6; Opium and Ipecacuanha, of each gr. 1/20.				
„ Grey Powder and Dover Powder, of each gr. 1 ...	1 to 5	—	100	
Each contains : — Mercury, gr. 1/3; Opium and Ipecacuanha, of each gr. 1/10.				
„ Grey Powder and Opium ...	1 to 5	—	100	
R Hydrarg. c. Cretâ... gr. 1 Pulv. Opii ... gr. 1/6				
„ Grey Powder, gr. 1/2, and Sodium Bicarbonate, gr. 2-1/2	1 repeated	—	100	
„ Grey Powder, gr. 1, and Sodium Bicarbonate, gr. 5	1 to 5	25	100	
„ Grey Powder, Opium and Quinine ...	1 to 3	—	100	
R Hydrargyri cum Cretâ gr. 1-1/2 Extracti Opii ... gr. 1/6 Quininæ Sulphatis gr. 1-1/2				
„ Guaiacol Camphorate, gr. 5	1 to 2 increased	25	100	
„ Guaiacol Carbonate, gr. 5	1 to 2 increased	25	100	
„ „ „ 0.3 gm.	1 or more	25	100	
„ Guaiacum and Quinine Compound ...	1 to 4	—	100	
R Guaiaci Resinæ ... gr. 2 Sulphuris ... gr. 2 Quininæ Salicylatis gr. 1/2				
„ Guaiacum and Sulphur ...	1 to 4	25	100	
R Guaiaci Resinæ ... gr. 3 Sulphuris Præcipitati gr. 3				
„ Guaiacum Resin, gr. 5	1 to 3	25	100	
„ Hæmoglobin, gr. 5	1 or more	—	100	
„ 'Hemisine' (Trade Mark) 0.0003 gm. (approx. gr. 1/200), tubes of 12 ...	2 to 3	—	—	

'Tabloid' Brand Products—continued			Issued in	
'TABLOID' BRAND—	DOSE	oval bols. of	bols. of	
„ 'Hemisine,' 0.001 gm. (approx gr. 1/64), tubes of 12 ...	I	—	—	
'Hemisine' products present the active principle of the medulla of the supra-renal gland in a dry, soluble and stable con- dition.				
„ Heroin Hydrochloride, gr. 1/25	I to 4	25	100	
„ „ „ gr. 1/10	I to 4	—	100	
„ „ „ 0.0025 gm.	I to 4	25	100	
„ Hydrarg. c. Cretâ. (see Grey Powder)				
„ Hydrarg. Iodid. Flav., gr. 1/8	I to 4	25	100	
„ „ „ „ 0.025 gm.	I	100	—	
„ Hydrarg. Iodid. Rubr., gr. 1/20	I	50	—	
„ „ „ „ gr. 1/16	I	50	—	
„ „ „ „ 0.01 gm.	I	100	—	
„ Hydrarg. Iodid. Virid., gr. 1/8	I to 4 increased	50	—	
„ Hydrargyri Perchloridi (Mercuric Chloride), gr. 1/100	I to 4 or more	100	—	
„ Hydrargyri Perchloridi (Mercuric Chloride), gr. 1/16	I	100	—	
„ Hydrargyri Perchloridi (Mer- curic Chloride), 0.01 gm. ...	I	100	—	
„ Hydrarg. Perchlor., gr. 1/32, et Potass. Iodid., gr. 2-1/2	I to 2	—	100	
„ Hydrarg. Perchlor., gr. 1/16 et Potass. Iodid., gr. 5 ...	I	—	100	
„ Hydrarg. Subchlor. (see Calomel)				
„ Hydrarg. Subchlor. Comp., B.P. (Plummer Pill), gr. 4	I to 2	25	100	
„ Hydrastine Compound ...	I to 3	25	100	
℞ Hydrastinæ Hydrochloridi gr. 1/4 Ext. Ergotæ (Ergotini), P.B. gr. 1/2 Cannabinæ Tannatis gr. 1/2	repeated			

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—				oval botts. of	botts. of
DOSE					
„ Hydrastine Compound and Cotarnine Hydrochloride ...	1 to 3	25	100		
℞ Hydrastinæ Hydrochloridi gr. 1/4	repeated				
Ext. Ergotæ (Ergotini), P.B. gr. 1/2					
Cannabinae Tannatis gr. 1/2					
Cotarninæ Hydrochloridi gr. 1/4					
„ Hydrastine Hydrochloride, gr. 1/4	1 to 4 repeated	—	100		
„ Hyoscyamus Tincture, B.P., min. 10	1 to 4 or more	36	100		
„ Hypodermic Products (see page 121)					
„ Hypophosphites Compound, gr. 1½	1 to 2	25	100		
Containing gr. 1-1/2 of the combined hypophosphites of calcium, potassium, sodium, manganese, iron and quinine, with gr. 1/128 of hypophosphite of strychnine; equivalent to dr. 1/2 of standard Com- pound Syrup of Hypo- phosphites.					
„ Hypophosphites Compound, gr. 3	1	25	100		
Containing gr. 1/64 of hypophos- phite of strychnine, equiva- lent to dr. 1 of standard Com- pound Syrup of Hypophos- phites.					
„ Ichthyol, gr. 2½	1 to 4	25	100		
„ „ 0.1 gm.	1 to 4	25	100		
„ Ipecacuanha Powder, gr. 1/10	1 frequently	100	—		
„ „ „ gr. 5 ...	1 every hour	—	100		
„ „ „ 0.25 gm.	1 to 8	—	100		
„ „ „ deprived of its Emetic Principles, gr. 5	1 to 4 or more	—	100		
„ Ipecacuanha and Tartarated Antimony, of each gr. 1/100	1 frequently	—	100		
„ Ipecacuanha Wine, B.P., min. 5	1 to 6 (expectorant)	50	100		
„ Ipecacuanha with Opium (see Dover Powder)					

'Tabloid' Brand Products—continued

		Issued in	
'TABLOID' BRAND—	DOSE	oval bts. of	bts. of
„ Ipecacuanha with Squill (B. P. Pill), gr. 4	1 to 2	—	100
Each contains approximately:— Ipecacuanha and Opium, of each gr. 1/5; Powdered Squill and Powdered Ammoniacum, of each, gr. 2/3.			
„ Iridin Compound	1 to 2	25	100
℞ Iridini gr. 2			
Ext. Hyoscyami			
Viridis gr. 1/2			
Pil. Rhei Comp.	gr. 1-1/2		
„ Iron and Arsenic Compound	1 to 3	—	100
℞ Ferri Hypophosphitis	gr. 2		
Quininæ Bisulphatis	gr. 1		
Acidi Arseniosi	gr. 1/50		
Strychninæ Sulphatis	gr. 1/50		
Saccharini	gr. 1/100		
„ Iron and Quinine Citrate, B. P., gr. 3	1 to 3	25	100
Each contains Quinine, approxi- mately gr. 1/2			
„ Iron and Quinine Citrate, B. P., 0.2 gm.	1 to 3	25	100
Each contains Quinine, 0.03 gm.			
„ Iron and Strychnine Phos- phates	1	25	100
℞ Ferri Phosphatis			
Solubilis gr. 1			
Strychninæ Phos- phatis gr. 1/32			
„ Iron, Arsenic and Digitalin ...	1 to 3	25	100
℞ Ferri Phosphatis			
Solubilis gr. 3			
Acidi Arseniosi	gr. 1/100		
Digitalini (Amorph.)	gr. 1/100		
„ Iron Carbonate Saccharated, gr. 5	1 to 6	—	100
„ Iron Citrate Compound	1 to 3	25	100
℞ Ferri et Ammonii			
Citratis... gr. 3			
Quininæ Sulphatis	gr. 1		
Acidi Arseniosi	gr. 1/60		
„ Iron Glycerophosphate, gr. 3	1 to 2	25	100
„ Iron Phosphate with Quinine and Strychnine (<i>see</i> Easton. Syrup)			
„ Iron Pill (<i>see</i> Blaud)			
„ Iron, Reduced (<i>see</i> Reduced Iron)			

'Tabloid' Brand Products—continued

'TABLOID' BRAND—	DOSE	Issued in	
		oval bols. of	bols. of
„ Iron Sulphate, Dried, gr. 3...	I	—	100
„ Iron Valerianate, gr. 1 ...	I or more	—	100
„ Jalap, gr. 5 ...	I to 4	—	100
„ Juniper Oil, min. 3, boxes of 50 ...	I	—	—
„ Kino Compound Powder, B.P., gr. 5 ...	I to 4	—	100
Each contains:—Kino, gr. 3-3/4; Opium, gr. 1/4; Cinnamon, gr. 1.			
„ Kissengen Salt, Effervescent, Artificial, tubes of 25 ...	I or more	—	—
„ Kola Compound (<i>formerly known as 'Tabloid', 'Forced March'</i>) ...	I every hour, if required	—	25 and 100
Containing the combined active principles of Kola Nut and Coca Leaves.			
„ Krameria and Cocaine ...	I occasionally	25	100
R Ext. Krameriae ... gr. 1			
Cocainae			
Hydrochloridi gr. 1/20			
„ Laxative Vegetable ...	I to 3	25	100
R Ext. Colocynthis			
Comp. ... gr. 1			
Ext. Jalapae ... gr. 1/2			
Podophylli Resinae gr. 1/4			
Leptandrini... gr. 1/2			
Ext. Hyoscyami			
Viridis ... gr. 1/4			
Ext. Taraxaci ... gr. 1/4			
Ol. Menthae			
Piperitae q.s.			
„ Lead with Opium (B.P. Pill), gr. 4 ...	I	—	100
Each contains approximately:— Lead Acetate, gr. 3; Opium, gr. 1/2.			
„ Liquorice Compound Powder, gr. 30 ...	I to 4	25	100
Each represents:—Senna, gr. 5; Liquorice Root, gr. 5; Sublimed Sulphur, gr. 2-1/2; etc.			
„ Liquorice Compound Powder, 2.0 gm. ...	I to 4	25	100
Each represents:—Senna, 0.3 gm.; Liquorice Root, 0.3 gm.; Sub- limed Sulphur, 0.15 gm.; etc.			

'Tabloid' Brand Products—continued			Issued in	
'TABLOID' BRAND—	DOSE	oval bots. of	bots. of	
„ Lithium Benzoate Compound	1 to 4 or more	—	100	
℞ Lithii Benzoatis ... gr. 3				
Sulphuris				
Præcipitati gr. 2				
Quininæ Salicylatis gr. 1/3				
„ Lithium Carbonate, gr. 2 ...	1 to 3	—	100	
„ „ „ 0.15 gm.	1 to 3	—	100	
„ Lithium Citrate, gr. 5, <i>Effer-</i>				
<i>vescent</i>	1 to 2	25	100	
„ Lithium Citrate, 0.25 gm.,				
<i>Effervescent</i>	1 to 2	25	100	
„ Lithium Citrate and Sodium				
Sulphate, <i>Effervescent</i> , tubes				
of 25... ..	1 to 2	—	—	
℞ Lithii Citratis ... gr. 5				
Sodii Sulphatis ... gr. 30				
„ Lithium Citrate and Uro-				
tropine, <i>Effervescent</i> , tubes				
of 25	1 or more	—	—	
℞ Lithii Citratis ... gr. 5				
Urotropinæ ... gr. 3				
Salis Effervescentis <i>q.s.</i>				
„ Lithium Citrate Effervescent,				
B.P., gr. 60, tubes of 25 ...	1 to 2	—	—	
Each contains about gr. 3 of				
Lithium Citrate.				
„ Livingstone Rouser (<i>see</i>				
'Tabloid' Quinine and				
Rhubarb Compound)				
„ Magnesium Carbonate Com-				
pound	1 to 4	25	100	
℞ Magnesii Carb. ... gr. 2				
Sodii Bicarbonatis gr. 2				
Potass. Bicarbonatis gr. 2				
Sodii Chloridi ... gr. 3				
„ Magnesium Citrate (<i>True</i>),				
Effervescent, gr. 60, tubes				
of 25	1 to 3	—	—	
„ Magnesium Sulphate Effer-				
vescent, B.P., gr. 60, tubes				
of 25... ..	1 to 4	—	—	
Each represents gr. 30 of Mag-				
nesium Sulphate.				
„ Magnesium Sulphate Com-				
pound, Effervescent, tubes				
of 25	1 to 4	—	—	
℞ Magnesii Sulphatis gr. 15				
Sodii Sulphatis ... gr. 15				
Magnesii Carbonatis gr. 5				
Tinct. Zingiberis min. 12				

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

DOSE

Issued in
oval
bts. of

„ Magnesium Sulphite, gr. 5 ...	I frequently	—	100
„ 'Mamos' (<i>Trade Mark</i>) (<i>formerly known as 'Tabloid'</i> Mammary Gland), gr. 5 ...	I increased	—	100
„ Manganese and Iron Citrate (<i>soluble</i>), gr. 3 ...	I to 3	25	100
„ Manganese and Iron Citrate (<i>soluble</i>), gr. 5 ...	I to 2	25	100
„ Manganese and Iron Citrate with Quinine (<i>soluble</i>), gr. 3	I to 3	25	—
Each contains Quinine, approxi- mately gr. 1/2.			
„ Manganese and Iron Citrate with Quinine (<i>soluble</i>), gr. 5	I to 2	25	—
Each contains Quinine, gr. 3/4.			
„ Manganese and Iron Citrate with Strychnine (<i>soluble</i>), gr. 1 ...	I to 3	25	100
Each contains Strychnine, gr. 1/100.			
„ Manganese and Iron Phos- phate (<i>soluble</i>), gr. 3 ...	I to 3	25	100
„ Manganese and Iron Phos- phate (<i>soluble</i>), gr. 5 ...	I to 2	25	100
„ Manganese Citrate (<i>soluble</i>), gr. 3 ...	I to 3	25	—
„ Manganese Citrate (<i>soluble</i>), gr. 5 ...	I to 2	25	—
„ Manganese Dioxide, gr. 2 ...	I to 5	25	100
„ Medulla (<i>see</i> Bone Medulla)			
„ Menthol, gr. 1/4 ...	I repeated	—	40 and 100
„ Menthol Compound ...	I to 4	—	100
R Menthol ... gr. 1/2 Sodii Bicarbonatis... gr. 3 Saccharini ... gr. 1/4			
„ Mercuric Potassium Iodide, gr. 1/6 ...	I	—	100
„ Mercury Green Iodide (<i>see</i> Hydrarg. Iod. Vir.)			
„ Mercury Perchloride (<i>see</i> Hydrarg. Perchlor.)			
„ Mercury Red Iodide (<i>see</i> Hydrarg. Iod. Rubr.)			

'Tabloid' Brand Products—continued

'TABLOID' BRAND—

DOSE

Issued in
oval
bts. of

		DOSE	oval bts. of	bts. of
„	Mercury Subchloride (see Calomel)			
„	Mercury with Chalk, and combinations (see Grey Powder and combinations)			
„	Mercury Yellow Iodide (see Hydrarg. Iod. Flav.)			
„	Methylene Blue, gr. 2	1 to 2	—	100
„	Milk Sugar, gr. 3	—	—	100
„	Mineral Water Salts, Effervescent (see Carlsbad, Kissingen, Seltzer and Vichy)			
„	Mistura Alba	1 to 8	—	100
	℞ Magnesii Carb. Pond. gr. 2-1/2			
	Magnesii Sulphatis gr. 15			
	Ol. Menthae Pip. min. 1/32			
„	Morphine and Emetine	1	—	50
	℞ Morphinæ Sulphatis gr. 1/40			
	Emetinæ			
	Hydrobromidi gr. 1/80			
„	Morphine, Strychnine and Belladonna	1 as required	25	100
	℞ Morphinæ Sulphatis gr. 1/12			
	Strychninæ Sulphatis gr. 1/60			
	Ext. Belladonnæ gr. 1/20			
„	Morphine Sulphate, gr. 1/20	1 to 4 or more	50	—
„	„ „ gr. 1/8	1 to 4	50	—
„	„ „ gr. 1/4	1 to 2	50	—
„	„ „ 0.005 gm.	1 to 4	100	—
„	„ „ 0.01 gm.	1 to 2	100	—
„	Mucin Compound	2 or more	25	100
	℞ Mucini gr. 5			
	Sodii Bicarbonatis gr. 5			
	Nasal (see 'Soloid' Brand Products)			
„	Nitroglycerin (see Trinitrin)			
„	Nux Vomica Compound	1 to 3	25	100
	℞ Ext. Nucis Vomicae			
	Aloini			
	Ferri Sulphatis			
	Pulv. Myrrhae			
	Pulv. Saponis āā gr. 1/2			
„	Nux Vomica Tincture, B.P.,			
	min. 1	1 frequently	100	—
„	„ „ min. 5	1 to 3	48	100
„	„ „ min. 10	1	36	100

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—	DOSE	oval bots. of		oval bots. of	bots. of
,, Ophthalmic Products (<i>see</i> page 128)					
,, Opium, gr. $\frac{1}{2}$	1 to 4	—		—	100
,, ,, gr. 1	1 to 2	—		—	100
,, ,, 0.025 gm.	1 to 5	—		—	100
,, Opium Tincture, B.P. (Lauda- num), min. 2	1 or more	48		48	100
,, Opium Tincture, B.P. (Lauda- num), min. 5	1 to 6	48		48	100
,, Opium Tincture, B.P. (Lauda- num), min. 10	1 to 3	36		36	100
,, Opium Tincture, 0.2 gm. ...	1 to 2	25		25	100
Each represents Opium, 0.02 gm.					
,, Ovarian Substance (<i>see</i> 'Varium')					
,, Ox Bile, Purified, gr. 4 ...	1 to 4	—		—	100
,, Papain, gr. 2	1 to 4	25		25	100
,, Paregoric (Tinct. Camph. Co., P.B.), min. 2	1 frequently	100		100	—
,, ,, ,, ,, min. 5	1 frequently	48		48	100
,, ,, ,, ,, min. 15	1 to 4	36		36	100
,, Pastilles (<i>see</i> page 130)					
,, Pelletierine Tannate, gr. 2 ...	1 to 4	25		25	—
,, 'Pepana' (Trade Mark) ...	1 to 3	25		25	100
<i>Formerly issued under the title Peptonic (Gastro-enteric digestive)</i>					
R Pepsini gr. 1					
Pancreatini gr. 1					
Calcii					
Lactophosphatis gr. 1					
,, Pepsin and Strychnine ...	1 to 3	25		25	100
R Pepsini gr. 2					
Strychninæ					
Sulphatis gr. 1/100					
,, Pepsin, Bismuth and Charcoal	1 to 3	25		25	100
R Pepsini gr. 2					
Bismuthi Carbonatis gr. 2					
Carbonis Ligni gr. 2					
,, Pepsin, Bismuth and Strych- nine	1 to 3	25		25	100
R Pepsini gr. 2					
Bismuthi Carbonatis gr. 3					
Strychninæ					
Sulphatis gr. 1/100					
,, Pepsin, Saccharated, gr. 5 ...	1 to 4 or more	—		—	100

'Tabloid' Brand Products—continued					Issued in	
'TABLOID' BRAND—					oval bts. of	bts. of
			DOSE			
„ Phenacetin, gr. 1	...	...	1 to 4 or more		25	100
„ „ gr. 5	...	...	1 to 2		25	100
„ „ 0.25 gm.	...	...	1 to 2		25	100
„ „ 0.5 gm.	...	...	1		25	100
„ Phenacetin and Quinine Com- pound	...	...	1 to 3		—	100
℞ Phenacetini	...	gr. 3				
Quininæ						
Hydrobromidi	gr. 1/2					
Caffeinæ	...	gr. 2/3				
„ Phenacetin Compound	...		1 to 3		25	100
℞ Phenacetini	...	gr. 4				
Caffeinæ	...	gr. 1				
„ Phenacetin Compound	...		1 to 3		25	100
℞ Phenacetini...	...	0.25 gm.				
Caffeinæ	...	0.05 gm.				
„ Phenazone (<i>see</i> Antipyrine)						
„ Phosphates Compound (<i>see</i> Chemical Food)						
„ Photographic (<i>see</i> pages 132-134)						
„ Pig Bile, Purified, gr. 4	...		1 to 4		—	100
„ Pilocarpine Nitrate, gr. 1/10			1 to 5		25	—
„ „ „ gr. 1/4	...		1 to 2		25	—
„ Piperazine, gr. 5	...		1 to 2		—	25
„ Piperazine, gr. 5, <i>Effervescent</i> , tubes of 12	...		1 to 2		—	—
„ Pituitary Gland, gr. 2	...		1 to 3		—	100
„ Plummer Pill (<i>see</i> Calomel)						
„ Podophyllin, gr. 1/4	...		1 to 4		100	—
„ Podophyllin and Euonymin	...		1 to 2		—	100
℞ Podophylli Resinæ	gr. 1/4					
Ext. Euonymi Sicci,	gr. 1					
„ Podophyllin Compound	...		1 to 3		—	100
℞ Podophylli Resinæ	gr. 1/6					
Pil. Rhei Comp.,						
P.B.	gr. 2-1/2					
Ext. Hyoscyami						
Viridis	gr. 1-1/4					
„ Potassium Bicarbonate, gr. 5			1 to 6		40	100
„ „ „ 0.3 gm.			1 to 6		25	100
„ Potassium Bromide, gr. 5	...		1 to 6		—	100
„ „ „ gr. 10	...		1 to 3		—	100
„ „ „ 0.5 gm.			1 to 4		25	100
„ „ „ 1.0 gm.			1 to 2		25	—

'Tabloid' Brand Products—continued		Issued in	
'TABLOID' BRAND—	DOSE	oval bts. of	bts. of
„ Potassium Chlorate, gr. 5 ...	1 as required	40	100
Also in white-metal boxes containing 40 and 100			
„ Potassium Chlorate, 0.25 gm.	1 as required	25	100
„ Potassium Chlorate and Borax	1 as required	40	100
Also in white-metal boxes containing 40 and 100			
„ Potassium Chlorate, Borax and Cocaine Co. (<i>see</i> Voice)			
„ Potassium Iodide, gr. 1 ..	1 frequently (<i>expectorant</i>)	—	100
„ „ „ gr. 3 .	1 to 6	—	100
„ „ „ gr. 5 ...	1 to 4	—	100
„ „ „ 0.1 gm. ...	1 or more	—	100
„ „ „ 0.5 gm. ...	1 to 2 or more	—	100
„ Potassium Nitrate (Sal Prunella), gr. 5... ..	1 to 4	—	100
„ Potassium Permanganate, gr. 1	1 to 3	—	100
„ „ „ gr. 2	1	—	100
„ Prostate Gland, gr. 2-1/2 ...	1 to 2	—	100
„ Quinine Acetyl-salicylate (<i>see</i> 'Xaxaquin')			
„ Quinine, Ammoniated (<i>see</i> Ammoniated Quinine)			
„ Quinine and Camphor ...	1 to 5	25	100
R Quininæ Bisulphatis gr. 1 Camphoræ ... gr. 1/5			
„ Quinine and Rhubarb Compound (<i>well known for many years as</i> 'Tabloid' Livingstone Rouser) ...	1 to 3	25	100
R Pulv. Jalapæ ... gr. 1-1/2 Hydrargyri Subchloridi ... gr. 1 Pulv. Rhei ... gr. 1-1/2 Quininæ Bisulphatis gr. 1			
„ Quinine and Strychnine ...	1 to 3	25	100
R Quininæ Bisulphatis gr. 1 Strychninæ Sulphatis gr. 1/60			
„ Quinine, Belladonna and Camphor	1 to 4	25	100
R Quininæ Sulphatis gr. 1/4 Ext. Belladonnæ ... gr. 1/8 Camphoræ ... gr. 1/4			

'Tabloid' Brand Products—continued

'TABLOID' BRAND—	DOSE	Issued in	
		oval bots. of	bots. of
„ Quinine Bihydrochloride, gr. 10	I	25	100
„ Quinine Bisulphate, gr. $\frac{1}{2}$...	I or more	50	100
„ „ „ gr. 1 ...	I or more	36	100
„ „ „ gr. 2 ...	I to 5	25	100
„ „ „ gr. 3 ...	I to 3	25	100
„ „ „ gr. 4 ...	I to 2	25	100
„ „ „ gr. 5 ...	I to 2	25	100
„ „ „ gr. 10 ...	I	25	100
„ „ „ 0.1 gm.	I or more	25	100
„ „ „ 0.25 gm.	I to 3	25	100
„ „ „ 0.5 gm.	I to 2	25	100
„ Quinine Bisulphate and Potas- sium Citrate, <i>Effervescent</i> , tubes of 25 ...	I to 2, re- peated as necessary	—	—
℞ Quininæ Bisulphatis gr. 1 Potassii Citratis ... gr. 15	I every hour	25	100
„ Quinine, Camphor and Aconite	I every hour	25	100
℞ Quininæ Bisulphatis gr. 1/4 Camphoræ ... gr. 1/4 Tinct. Aconiti ... min. 1			
„ Quinine Compound ...	I every hour	25	100
℞ Cinchonæ Alkaloid- orum gr. 1 Acetanilidi ... gr. 1-1/5 Camphoræ Mono- bromatæ gr. 1/5 Pulv. Ipecacuanhæ gr. 1/8 Ext. Cascaræ Sagradæ gr. 1/4			
„ Quinine Hydrobromide, gr. 3	I to 3	25	100
„ „ „ gr. 5	I to 2	25	100
„ „ „ 0.1 gm.	I or more	25	100
„ „ „ 0.25 gm.	I to 3	25	100
„ Quinine Hydrochloride, gr. 1	I or more	25	100
„ „ „ gr. 2	I to 5	25	100
„ „ „ gr. 3	I to 3	25	100
„ „ „ gr. 4	I to 2	25	100
„ „ „ gr. 5	I to 2	25	100
„ „ „ 0.1 gm.	I to 6	25	100
„ „ „ 0.25 gm.	I to 3	25	100
„ „ „ 0.5 gm.	I to 2	25	100
„ Quinine Salicylate (<i>physio- logically pure</i>), gr. 1 ...	I to 6	25	100

'Tabloid' Brand Products—continued

'TABLOID' BRAND—	DOSE	Issued in	
		oval bts. of	bts. of
„ Quinine Salicylate (<i>physio- logically pure</i>), gr. 3 ...	1 to 2 ...	25	100
„ Quinine Sulphate, gr. 1, gr. 2, gr. 3, gr. 4 and gr. 5 are supplied in packages of the same size as Quinine Bisulphate. ...			
„ Quinine Valerianate, gr. 2 ...	1 to 2	—	100
„ „ „ 0.1 gm. ...	1 or more	—	100
„ Red Gum ...	1 occasionally	25	100
„ Reduced Iron, gr. 2 ...	1 to 3	—	100
„ Reduced Iron and Rhubarb Compound ...	1 to 2	25	100
℞ Ferri Redacti ... gr. 2			
Ext. Hyoscyami ... gr. 1			
Ext. Nucis Vomicae ... gr. 1/2			
Pil. Rhei Comp. ... gr. 1			
Olei Carui ... min. 1/4			
„ Reduced Iron Compound ...	1 to 2	25	100
℞ Ferri Redacti ... gr. 2			
Ext. Hyoscyami ... gr. 1			
Ext. Nucis Vomicae ... gr. 1/2			
Olei Carui ... min. 1/4			
„ Residuum Rubrum, gr. 5 ...	1 to 4	—	100
„ Resorcin, gr. 3 ...	1 to 2	—	100
„ Rhubarb, gr. 3 ...	1 to 4 or more	25	100
„ „ 0.25 gm. ...	1 or more	25	100
„ „ 0.5 gm. ...	1 or more	25	100
„ Rhubarb and Gentian Com- pound ...	1 to 4	—	100
℞ Inf. Gentianae Comp. fl. dr. 2			
Inf. Rhei ... fl. dr. 1			
Sodii Bicarbonatis ... gr. 5			
Ol. Menthae Piperitae min. 1/6			
„ Rhubarb and Soda ...	1 to 5	25	100
℞ Pulv. Rhei ... gr. 3			
Sodii Bicarbonatis ... gr. 1-1/2			
Pulv. Zingiberis ... gr. 1/2			
„ Rhubarb and Soda ...	1 to 5	25	100
℞ Pulv. Rhei ... 0.2 gm.			
Sodii Bicarbonatis ... 0.1 gm.			
Pulv. Zingiberis ... 0.03 gm.			

'Tabloid' Brand Products—continued					Issued in	
'TABLOID' BRAND—				DOSE	oval botts. of	botts. of
,, Rhubarb Compound Pill, B. P.,						
gr. 4				I to 2	25	100
Each contains approximately: Rhubarb, gr. 1; Socotrine Aloes, gr. 3/4; Myrrh and Hard Soap, of each, gr. 1/2; Oil of Peppermint, min. 1/16.						
,, Rhubarb Compound Powder (Gregory Powder), gr. 5 ...				I to 4 or more	25	100
Each contains: Rhubarb, gr. 1-1/9; Heavy Magnesia, gr. 3-1/3, and Ginger, gr. 5/9						
,, Rhubarb Extract, gr. 2 ...				I to 4	25	100
,, Rhubarb, Soda and Magnesia				I to 5	25	100
℞ Pulv. Rhei ... gr. 1 Sodii Bicarbonatis gr. 1-1/2 Magnesii Carb. Pond. gr. 2 Pulv. Zingiberis ... gr. 1/2						
,, Saccharin, gr. 1/2				I or more	{ 100 & 200 }	500
,, Salicin, gr. 5				I to 4		
,, ,, 0.25 gm.				I to 5	25	100
,, Salicylic Acid (<i>physiologically</i> <i>pure</i>), gr. 3				I to 4 or more	—	100
,, Salicylic Acid (<i>physiologically</i> <i>pure</i>), gr. 5				I to 4	—	100
,, Salicylic Acid (<i>physiologically</i> <i>pure</i>), 0.5 gm.				I to 2	25	—
,, Salol, gr. 5				I to 3	25	100
,, ,, 0.5 gm.				I to 2	25	100
,, Santonin, gr. 1/2				I to 4 or more	50	—
,, ,, gr. 2				I to 3	50	—
,, ,, gr. 3				I to 2	50	—
,, ,, 0.025 gm.				I to 6	100	—
,, Santonin and Calomel ...				I to 3	25	100
℞ Santonini gr. 1 Hydrargyri Subchloridi gr. 1						
'Saxin,' gr. 1/4 (<i>see</i> page 135)						
,, Seltzer Salt, Effervescent, Artificial, tubes of 25 ...				I or more, as desired	—	—
,, Slippery Elm, gr. 5				I or more	25	100
,, Soda-Mint (<i>Neutralising</i>) ...				I to 4 or more	30	100
℞ Sodii Bicarbonatis... gr. 4 Ammon. Bicarb. ... gr. 1/12 Ol. Menthae Piperitæ q.s.						

'Tabloid' Brand Products—continued

'TABLOID' BRAND—	DOSE	Issued in	
		oval bts. of	bts. of
„ Sodium Bicarbonate, gr. 5 ...	1 to 6	40	100
„ „ „ gr. 10 ...	1 to 3	40	100
„ „ „ 0.5 gm. ...	1 to 4	25	100
„ Sodium Bromide, gr. 5 ...	1 to 6	—	100
„ „ „ gr. 10 ...	1 to 3	—	100
„ Sodium Citrate, gr. 2 ...	for milk modification	—	100
„ Sodium Phosphate, Effer- vescent, B.P., gr. 60, tubes of 25 ...	1 or more	—	—
Each represents gr. 30 of Sodium Phosphate.			
„ Sodium Salicylate (<i>natural</i>), gr. 3	1 to 6 or more	25	—
„ „ „ „ gr. 5	1 to 6	25	—
„ Sodium Salicylate (<i>physio- logically pure</i>), gr. 3 ...	1 to 6 or more	25	100
„ Sodium Salicylate (<i>physio- logically pure</i>), gr. 5 ...	1 to 6	25	100
„ Sodium Salicylate (<i>physio- logically pure</i>), 0.5 gm. ...	1 to 4	25	100
„ Sodium Salicylate (<i>physio- logically pure</i>), gr. 5, Effer- vescent, tubes of 25 ...	1 or more	—	—
„ Sodium Salicylate and Potas- sium Bicarbonate, of each gr. 5 ...	1 to 6	25	100
„ Sodium Sulphate Compound, Effervescent, tubes of 20 ...	1 to 2	—	—
℞ Sodii Sulphatis Exsiccati, gr. 30 Potassii Tartratis Acidi, gr. 10 Potassii Bicar- bonatis, gr. 2-1/2 Ess. Zingiberis ... q.s. Salis Effervescentis, q.s.			
„ Sodium Sulphate Effervescent, B.P., gr. 60, tubes of 25 ...	1 or more	—	—
„ Sodium Sulphocarbonate, gr. 5	1 to 3	—	100
„ Sparteine Sulphate, gr. 1 ...	1	—	25
„ Spinal Cord Substance, gr. 2-1/2	1 or more	—	100

'Tabloid' Brand Products— <i>continued</i>				Issued in	
'TABLOID' BRAND—		DOSE	oval bols. of	bols. of	
„ Spleen Substance, gr. 5	...	1 or more	—	100	
„ Strontium Bromide, gr. 5	...	1 to 6	—	100	
„ Strophanthus Tincture, B.P., min. 5	... ..	1 to 3	50	100	
„ Strophanthus Tincture, 0.1 gm.	...	1 to 2	—	100	
Each represents Strophanthus Seed, 0.01 gm.					
„ Strychnine Sulphate, gr. 1/60	...	1 to 4	50	—	
„ „ „ gr. 1/30	...	1 to 2	50	—	
„ „ „ gr. 1/20	...	1	50	—	
„ „ „ gr. 1/15	...	1	50	—	
„ „ „ 0.001 gm.	...	1 to 4	100	—	
„ Sugar of Milk, gr. 3	...		—	100	
„ Sulphonal, gr. 5	...	1 to 6	25	100	
„ „ 0.25 gm.	...	1 to 6	25	100	
„ „ 1.0 gm.	...	1 to 2	25	100	
„ Sulphur Compound	...	1 to 4 or more	25	100	
R Sulphuris Præcipitati, gr. 5 Potassii Tartratis Acidi, gr. 1					
„ Supra-renal Gland, gr. 5	...	1 to 3	—	100	
„ „ „ 0.3 gm.	...	1 increased to 3	—	100	
„ Tannin, gr. 2-1/2	...	1 to 2	—	100	
„ Tar, gr. 1	...	1 frequently	50	100	
„ Tar and Codeine	...	1 to 4	25	100	
R Picis Liquidæ ... gr. 1 Codeinæ ... gr. 1/8					
„ Tea (<i>see</i> page 177)	...				
„ Tetranitrin (<i>see</i> Erythrol Tetranitrate)	...				
„ Thirst Quencher	...	1 to 2 or more, as desired	25	100	
Containing Tartaric Acid and Sodium Bicarbonate, flavoured with Lemon and 'Saxin.'					
„ Three Bromides Effervescent, tubes of 25	...	1 to 2	—	—	
R Potassii Bromidi ... 0.4 gm. Sodii Bromidi ... 0.4 gm. Ammonii Bromidi ... 0.2 gm. Salis Effervescentis ... q.s.					

'Tabloid' Brand Products—continued				Issued in	
'TABLOID' BRAND—		DOSE	oval bols. of	bols. of	
,, Three Syrups, dr. I		I to 2	25	100	
R Syr. Ferri Phos- phatis cum Quinina, et Strychnina (Easton)		min. 15			
Syr. Hypophos- phitum Comp.		min. 15			
Syr. Phosphatum Comp. (Parrish)		min. 30			
Each contains Strychnine		gr. 1/85			
,, Three Valerianates		I	—	100	
R Quininae Valerianatis		gr. 1			
Ferri Valerianatis		gr. 1			
Zinci Valerianatis		gr. 1			
,, Thymol, gr. 1		I to 2	25	—	
,, ,, gr. 2		I	25	—	
,, ,, gr. 5		Used in special cases	—	100	
,, Thymus Gland, gr. 5		I to 5	—	100	
,, Thyroid Colloid, gr. 1/2		I or more	—	100	
,, Thyroid Gland, gr. 1/2		I or more	—	100	
,, ,, ,, gr. 1-1/2		I or more	—	100	
,, ,, ,, gr. 2-1/2		I or more	—	100	
,, ,, ,, gr. 5		I	—	100	
,, ,, ,, 0.1 gm.		I or more	—	100	
,, ,, ,, 0.3 gm.		I or more	—	100	
,, Tonic Compound		I to 3	25	100	
R Ferri Pyrophosphatis		gr. 2			
Quininae Bisulphatis		gr. 1			
Strychninae Sulphatis		gr. 1/100			
,, Trinitrin (Nitroglycerin), gr. 1/200		I or more	25	100	
,, ,, ,, gr. 1/100		I to 2	25	100	
,, ,, ,, gr. 1/50		I	25	100	
,, ,, ,, 0.0005 gm.		I to 2	25	100	
,, Trinitrin Compound		I to 2	25	100	
R Trinitrini		gr. 1/100			
Capsicini		gr. 1/200			
Menthol		gr. 1/100			
,, Trional, gr. 5		2 to 6	25	100	
,, ,, 0.25 gm.		I to 6	25	100	
,, ,, 1.0 gm.		I to 2	25	100	

'Tabloid' Brand Products—continued					Issued in	
'TABLOID' BRAND—			DOSE	oval bots. of	bots. of	
„	Urotropine, gr. 3	...	1 to 5	25	100	
„	„ gr. 5	...	1 to 3	25	100	
„	„ 0.5 gm.	...	1 to 2	25	100	
„	'Varium' (Trade Mark) (formerly known as 'Tabloid' Ovarian Substance), gr. 5...			—	100	
„	Vegetable Laxative	(see Laxative Vegetable)				
„	Veronal, gr. 5	...	1 to 2	25	—	
„	„ 0.5 gm.	...	1 to 2	—	25	
„	„ 1.0 gm.	...	1	—	25	
„	Viburnum Prunifolium Extract, gr. 2	...	1 to 5	—	100	
„	Vichy Salt, Effervescent, Arti- ficial, tubes of 25	...	1 or more, as desired	—	—	
„	Vichy Salt, Effervescent, Arti- ficial, and Lithium Citrate, tubes of 25	...	1 or more, as desired	—	—	
	In addition to the essential con- stituents of Vichy Water, each contains Lithium Citrate, gr. 1.					
„	Vinum Ipecacuanhæ (see Ipe- cacuanha Wine)					
„	Voice (Potassium Chlorate, Borax and Cocaine Co.)	...	1 as required	25	80	
	Also in white metal boxes containing 25 and 80					
„	Warburg Tincture, min. 30	...	2 to 8	—	100	
„	'Xaxa' (Trade Mark) (Acetyl- salicylic Acid), gr. 5	...	1 to 5	25	100	
„	'Xaxa' and Dover Powder, of each, gr. 2-1/2	...	1 to 4	25	100	
„	'Xaxa' and Phenacetin, of of each, gr. 2-1/2	...	1 to 4	25	100	
„	'Xaxaquin' (Trade Mark) (Quinine Acetyl-salicylate), gr. 3	...	1 to 2	25	100	
„	'Xaxa' and 'Xaxaquin'	...	1 to 3	25	100	
	R 'Xaxa'	...	gr. 3			
	'Xaxaquin'	...	gr. 2			
„	Zinc Oxide, gr. 2	...	1 to 5	—	100	
„	Zinc Valerianate, gr. 2	...	1	—	100	

'Tabloid' Brand Products—continued

	DOSE	Issued in	
		oval botts. of	botts. of
'TABLOID' BRAND—			
„ Zinc Valerianate Compound... I		—	100
℞ Zinci Valerianatis ... gr. 1			
Pulv. Rhei ... gr. 1			
Ext. Belladonnæ ... gr. 1/8			
Pulv. Zingiberis ... gr. 1			
„ Zinc Valerianate and Asafetida			
Compound I		—	100
℞ Zinci Valerianatis ... gr. 1			
Asafetidæ ... gr. 1			
Myrrhæ ... gr. 1/2			
„ Zinc Valerianate with Iron and			
Arsenic I		—	100
℞ Zinci Valerianatis ... gr. 2			
Ferri Redacti ... gr. 1			
Acidi Arseniosi ... gr. 1/60			
Ext. Gentianæ ... gr. 1			
„ Zingib. (<i>see</i> Ginger)			

Also a wide range of other products issued under the 'Tabloid' Brand.

'Tabloid' Brand Tea provides the most convenient, portable and effective means of quickly preparing tea of uniform strength. It is the most suitable tea for travellers, sportsmen, cyclists, pleasure parties, etc. A tin of 'Tabloid' Tea and a bottle of 'Saxin' for sweetening the infusion may be conveniently carried in the waistcoat pocket.

In gold lacquered tins of 100 and 200.

'Tabloid' Brand Tea, Special Blend, exceptional quality—

In white enamelled tins of 100 and 200.

Terebene, Pure (B. W. & Co.)—

DOSE

1 oz., 2 oz., 16 oz. bottles ... 5 to 15 min.

Trade
Mark

'VALOID' BRAND PRODUCTS

The word 'Valoid' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'VALOID' BRAND—

DOSE

„ Aromatic Cascara Sagrada, 4 fl. oz. bottles 10 to 60 min.

„ Ergot, 4 fl. oz. bottles ... 10 to 30 min.

The strength of each 'Valoid' preparation is indicated on the label.

Various other products are also issued under this brand

Trade Mark **'VALULE' BRAND PRODUCTS**

The word 'Valule' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'VALULE' BRAND—

DOSE

„ Bone Medulla, gr. 5, bottles of 100 ... 1 or more
(See also 'Tabloid' Bone Medulla)

Various other products are also issued under this brand

Trade Mark **'VAPOROLE' BRAND PRODUCTS**

The word 'Vaporole' is a brand which designates fine products issued by Burroughs Wellcome & Co. This brand should always be specified when ordering.

'VAPOROLE' BRAND—

DOSE

„ Amyl Nitrite, min. 3 or min. 5, boxes of 12, 1 (by inhalation)

„ Iron and Arsenic Solution, Sterilised, for hypodermic injection, boxes of 12 phials 1 to 3

R Ferri Citratis Viridis ... 0.05 gm.
Sodii Arsenatis ... 0.002 gm.
Aquam ... ad 1.0 c.c.

Various other products are also issued under this brand

'Vereker' Ammonium Chloride Inhaler—

Delivers neutral fumes of ammonium chloride.

Water Analysis Case (see page 104)

'Wellcome' Brand Products (see page 181)

Wyeth Beef Juice, The Perfected

The ideal beef food in sickness and convalescence.

DOSE
½ to 1 tea-
spoonful in
half a tumbler-
ful of cold
water.

Wyeth Dialysed Iron

Bottles of 4 fl. oz. (with dropper) and 16 fl. oz. ... 5 to 30 minims, in water or on sugar.

Various other Wyeth preparations are also issued.

(For further particulars, see General Price List)

THE



'Tabloid'

AND

'Soloid'

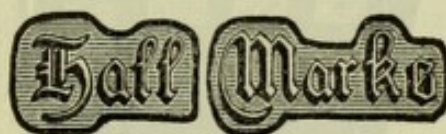
Invented

By

B. W. & Co.

Are

B. W. & Co.



They *mark* the work of

Burroughs Wellcome & Co.

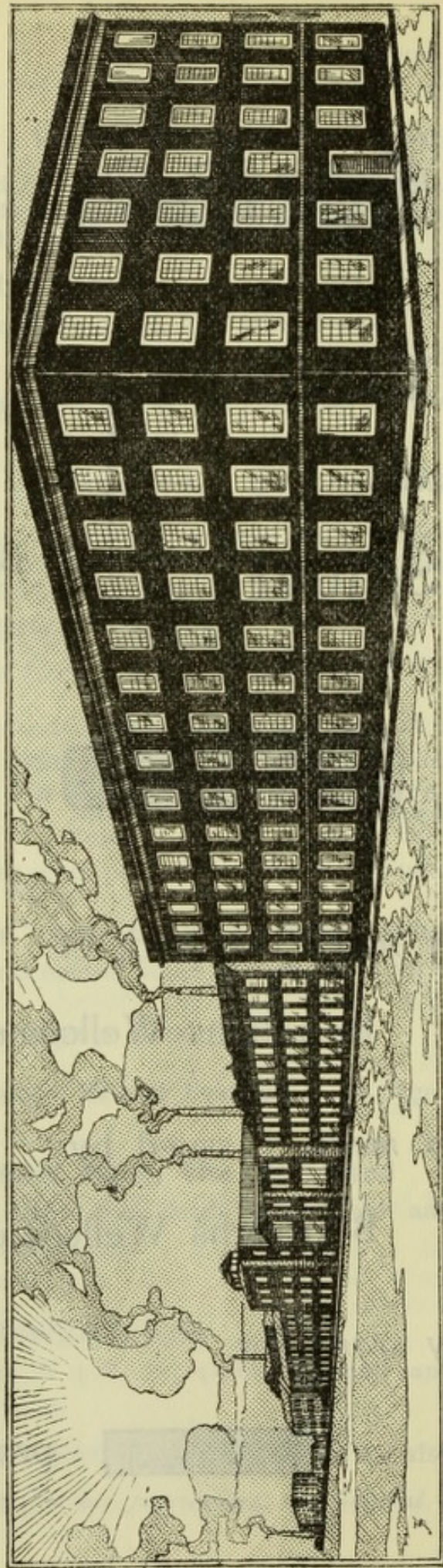
They *mean* "Issued by

Burroughs Wellcome & Co."

They *stand* for



products



THE 'WELLCOME' CHEMICAL WORKS AND LABORATORIES, DARTFORD, NEAR LONDON, ENGLAND

'WELLCOME' BRAND PRODUCTS

The purity and reliability of drugs are matters of the utmost importance to prescriber, dispenser and patient alike, and every opportunity should therefore be taken to ensure the supply of those chemicals which are known to be thoroughly genuine and trustworthy.

Purity and
reliability

In order that goods answering to this description in the highest sense may be at the disposal of the profession, Burroughs Wellcome & Co. manufacture and issue a series of fine chemicals, alkaloids, etc., to which they have recently added a series of standardised liquid and granular extracts and concentrated tinctures, under the distinctive title of the 'Wellcome' Brand.

The advantages of galenicals containing a definite proportion of active principle over those that vary in strength with every sample of drug employed are now fully recognised, and several such have been admitted into the Pharmacopœia. With regard to galenicals, Burroughs Wellcome & Co. have extended the standardisation by total alkaloid assay, and have never adopted the basis of total extractive, regarding it as misleading and useless. Total alkaloid estimations have been adopted in so far as they secured definite standards of truly representative activity, but the firm has not been content to rely on this means alone. As the result of extensive research, they are able to offer many other standardised preparations in addition to the official ones. Those galenicals which are known to be extremely variable in their character and action, and by their nature do not admit of exact control by chemical means, have been the subject of *physiological* research. Not being satisfied with the methods hitherto available, special processes of standardisation have been developed which give more complete control over the finished products. This subject is still one of continuous research.

Standard-
ised
galenicals

Physio-
logical
standards

The standards adopted have been chosen after the examination of very many different samples of drug, and represent the average of the amounts of active principle found in preparations made from good specimens. Thus the dose remains the same as that of the older preparation, but the prescriber is certain of always obtaining the proper effect instead of one

varying from time to time with the particular batch of extract or tincture used, and the advantage of this certainty, both to the reputation of the prescriber and the health of the patient, can hardly be over-estimated.

The recognised doses of 'Wellcome' Brand Chemicals are indicated on the labels, and in the body of this booklet, in terms of both the Imperial and Metric systems. The limits of dosage given are approximately the same in each system, but exact equivalence has not been attempted, since no useful object is served, and awkward and confusing figures result.

'WELLCOME' BRAND—

„ Aconite, Concentrated Tincture of (*see* page 213)

„ Aconite, Liquid Extract of (Standardised) (*see* page 207)

„ Aconitine (*Pure Alkaloid*)

The pure crystallised alkaloid from *Aconitum Napellus*, free from pseudaconitine and japaconitine, and from the non-toxic aconine and benzaconine. As aconitine is such a powerful poison, it should be prescribed and dispensed with the utmost caution.

Dose—gr. 1/640 to gr. 1/400 (0.0001 gm. to 0.0005 gm.)

Issued in tubes of gr. 5 (0.3 gm.)

„ Aconitine Hydrobromide

The most suitable salt of aconitine for therapeutic use, being readily soluble in water, perfectly stable, and of uniform composition. The remarks as to purity and dosage of the alkaloid apply to this salt also.

Dose—gr. 1/640 to gr. 1/400 (0.0001 gm. to 0.0005 gm.)

Issued in tubes of gr. 5 (0.3 gm.)

„ Aloes, B.P., Extract of Barbados (*see* page 204)

„ Aloin, B.P.

This is barbaloin, and is free from resin. It is lighter in colour and affords a clearer solution than the usual commercial article.

Dose—gr. 1/2 to gr. 2 (0.03 gm. to 0.13 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Aloin, Crystal

This is barbaloin in well-defined crystals, and is free from resin.

Dose—gr. 1/2 to gr. 2 (0.03 gm. to 0.13 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Arnica, Concentrated Tincture of (*see* page 213),, Atropine (*Pure Alkaloid*), B.P.

The pure crystallised alkaloid, free from hyoscyamine and hyoscyne.

Dose—gr. 1/200 to gr. 1/100 (0.0003 gm. to 0.0006 gm.)

Issued in bottles of gr. 60 (3.9 gm.), oz. 1/4 (7 gm.) and oz. 1 (28.3 gm.)

,, Atropine Sulphate

Prepared from pure atropine.

Dose—gr. 1/200 to gr. 1/100 (0.0003 gm. to 0.0006 gm.)

Issued in bottles of gr. 60 (3.9 gm.), oz. 1/4 (7 gm.) and oz. 1 (28.3 gm.)

,, Belladonna, B.P., Alcoholic Extract of (*see* page 204),, Belladonna, B.P., Green Extract of (*see* page 204),, Belladonna, B.P., Liquid Extract of (Standardised) (*see* page 207),, Belladonna (Green), Standardised Granular Extract of (*see* page 206),, Benzoin, Concentrated Compound Tincture of (*see* page 214)

,, Berberine Sulphate

The salt of an alkaloid obtained from *Hydrastis canadensis*.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Bismuth and Iron Citrate (*Soluble*)

This salt is in the form of yellowish-green scales, readily soluble in water. The Bismuth and Iron Citrates are combined in this preparation so as to represent as

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

nearly as possible equal parts by weight of their respective anhydrous salts.

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Bismuth and Lithium Citrate (*Soluble*)

This salt contains an amount of lithium in association with bismuth corresponding to 25–30 per cent. of its weight of anhydrous Lithium Citrate.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Bismuth Carbonate, B.P.

Dose—gr. 5 to gr. 20 (0.3 gm. to 1.3 gm.)

Issued in bottles of oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Bismuth Citrate

This salt is free from the very common contamination of nitrate, and affords a clear solution with ammonia; it may be used for preparing the official Solution of Bismuth and Ammonium Citrate by dissolving gr. 140 (9.0 gm.) of the salt in approximately fl. dr. $2\frac{1}{2}$ (8.8 c.c.) of Solution of Ammonia, and diluting with water to fl. oz. $3\frac{1}{2}$ (100 c.c.).

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Bismuth Citrate (*Soluble*)

This is a stable and soluble scale salt, which is very freely soluble in water, and yields a bright solution. A solution corresponding approximately to the official Solution of Bismuth and Ammonium Citrate may be made by dissolving gr. 155 (10 gm.) of the salt in fl. oz. $3\frac{1}{2}$ (100 c.c.) of distilled water.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Bismuth Oxychloride

This salt is presented as an exceptionally light and fine powder, making it suitable for use for toilet purposes.

Dose—gr. 5 to gr. 20 (0.3 gm. to 1.3 gm.)

Issued in bottles of oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Bismuth Salicylate (*physiologically pure*)

This preparation contains the proper proportion of bismuth combined with pure salicylic acid, and is uniform in composition.

Dose—gr. 5 to gr. 20 (0.3 gm. to 1.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Bismuth Subgallate

This is in a state of very fine powder, which is particularly important when required for local application.

Dose—gr. 10 to gr. 20 (0.65 gm. to 1.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Bismuth Subnitrate, B.P.

Dose—gr. 5 to gr. 20 (0.3 gm. to 1.3 gm.)

Issued in bottles of oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Caffeine, B.P.

Dose—gr. 1 to gr. 5 (0.06 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Caffeine Citrate, B.P.

Dose—gr. 2 to gr. 10 (0.15 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Calabar Bean, Liquid Extract of (Standardised) (*see page 207*)

,, Calcium Glycerophosphate

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Calcium Hypophosphite, B.P.

Special attention is invited to this salt and to its property of dissolving readily in water to form a perfectly clear solution. It conforms strictly in all respects to the B.P. requirements.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Calomel (*see* Mercury Subchloride, page 197)

,, Calumba, Concentrated Tincture of (*see* page 214)

,, Camphor, Concentrated Compound Tincture of (*see* page 214)

,, Cannabis Indica, Concentrated Tincture of (*see* page 214)

,, Cannabis Indica, B.P., Extract of (*see* page 204)

,, Cannabis Indica, B.P., Tincture of (*see* page 212)

,, Cantharides, Concentrated Tincture of (*see* page 214)

,, Capsicum, Concentrated Tincture of (*see* page 214)

,, Cardamoms, Concentrated Compound Tincture of (*see* page 215)

,, Cascara Sagrada, B.P., Extract of (*see* page 204)

,, Cascara Sagrada, Granular Extract of (*see* page 206)

,, Cascara Sagrada, B.P., Liquid Extract of (*see* page 208)

,, Cascarilla, Concentrated Tincture of (*see* page 215)

,, Catechu, Concentrated Tincture of (*see* page 215)

,, Chiretta, Concentrated Tincture of (*see* page 215)

,, Chloroform, B.P.

Prepared specially for anæsthesia, and marking an important advance in its unvarying reliability. The result of the most recent researches is embodied in this product, which provides an anæsthetic of the highest attainable degree of purity, and free from the irritating

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

products of decomposition. Supplied in amber-coloured stoppered bottles.

Dose—min. 1 to min. 5 (gtt. 1 to gtt. 5)

Issued in bottles of oz. 2 (57 gm.), 1/4 lb. (113 gm.), 1/2 lb. (227 gm.) and 1 lb. (454 gm.); and in hermetically-sealed tubes of 30 c.c. (approx. 1 fl. oz.) and 60 c.c. (approx. 2 fl. oz.)

„ Chrysarobin, B.P.

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Cimicifuga, Concentrated Tincture of (*see page 215*)

„ Cinchona, Concentrated Compound Tincture of (*see page 215*)

„ Cinchona, Concentrated Tincture of (*see page 216*)

„ Cinchona, B.P., Liquid Extract of (Standardised) (*see page 208*)

„ Cinchona (Miscible), Liquid Extract of (Standardised) (*see page 208*)

„ Cinnamon, Concentrated Tincture of (*see page 216*)

„ Coca, B.P., Liquid Extract of (Standardised) (*see page 208*)

„ Coca (Miscible), Liquid Extract of (Standardised) (*see page 208*)

„ Cocaine (*Pure Alkaloid*), B.P.

Issued in bottles of oz. 1/8 (3.5 gm.) and oz. 1/2 (14 gm.)

„ Cocaine Hydrochloride, B.P.

Dose—gr. 1/5 to gr. 1/2 (0.013 gm. to 0.03 gm.)

Issued in bottles of oz. 1/8 (3.5 gm.), oz. 1/2 (14 gm.) and oz. 1 (28.3 gm.)

„ Cochineal, Concentrated Tincture of (*see page 216*)

„ Codeine (*Pure Alkaloid*), B.P.

Dose—gr. 1/4 to gr. 2 (0.015 gm. to 0.13 gm.)

Issued in bottles of gr. 60 (3.9 gm.), oz. 1/2 (14 gm.) and oz. 1 (28.3 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

„ Codeine Phosphate, B.P.

Dose—gr. $\frac{1}{4}$ to gr. 2 (0.015 gm. to 0.13 gm.)

Issued in bottles of gr. 60 (3.9 gm.), oz. $\frac{1}{2}$ (14 gm.) and oz. 1 (28.3 gm.)

„ Colchicum, B.P., Extract of (*see* page 205)

„ Colchicum Seeds, Concentrated Tincture of (*see* page 216)

„ Colchicum Seeds, Liquid Extract of (Standardised) (*see* page 209)

„ Colocynth, Powdered Compound Extract of (*see* page 205)

„ Concentrated Tinctures (*see* page 213)

„ Conium, Concentrated Tincture of (*see* page 216)

„ Cotarnine Hydrochloride

This substance is obtained by the oxidation of narcotine, and is free from other oxidation products commonly found associated with it.

Dose—gr. $\frac{1}{4}$ to gr. $\frac{1}{2}$ (0.015 gm. to 0.03 gm.)

Issued in bottles of oz. $\frac{1}{8}$ (3.5 gm.) and oz. $\frac{1}{2}$ (14 gm.)

„ Cubebs, Concentrated Tincture of (*see* page 216)

„ Digitalis, Concentrated Tincture of (*see* page 217)

„ Digitalis, B.P., Tincture of (*see* page 212)

„ Emetine (*Pure Alkaloid*)

This is the essential alkaloid of ipecacuanha, and not the mixture of alkaloids formerly known as Emetine.

Dose—As an expectorant, gr. $\frac{1}{200}$ to gr. $\frac{1}{50}$ (0.0003 gm. to 0.0013 gm.)

As an emetic, gr. $\frac{1}{6}$ to gr. $\frac{1}{3}$ (0.01 gm. to 0.02 gm.)

Issued in tubes of gr. 15 (1 gm.) and bottles of gr. 60 (3.9 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Emetine Hydrobromide

The most suitable salt of emetine for therapeutic use.

DOSE—As an expectorant, gr. 1/200 to gr. 1/50 (0.0003 gm. to 0.0013 gm.)

As an emetic, gr. 1/6 to gr. 1/3 (0.01 gm. to 0.02 gm.)

Issued in tubes of gr. 15 (1 gm.) and bottles of gr. 60 (3.9 gm.)

,, Ergot, Granular Extract of (*see* page 206),, Ergot, B.P., Liquid Extract of (*see* page 209)

,, Ergotin (Ext. Ergotæ, P.B.)

(Made from ergot physiologically tested in the Wellcome Physiological Research Laboratories)

The ergot is carefully hand-picked and freed from all foreign matter. The extract has a pure characteristic odour, and is free from the objectionable properties sometimes imparted to it by the use of excessive heat.

DOSE—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in pots of oz. 1 (28.3 gm.)

,, Eserine Salts (*see* Physostigmine),, Ether (*Pure*)

Prepared specially for anæsthesia, and conforming to the requirements of the British Pharmacopœia. Specific gravity, 0.720.

Issued in hermetically-sealed glass tubes of 30 c.c. (approx. 1 fl. oz.) and 60 c.c. (approx. 2 fl. oz.)

,, Ethyl Chloride

Issued in tubes of 3 c.c. and 5 c.c.

,, Euonymin (Ext. Euonymi Siccum, P.B.)

Prepared from the true drug, *Euonymus atropurpureus*, carefully picked over by hand before extraction.

DOSE—gr. 1 to gr. 2 (0.06 gm. to 0.13 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Extracts (*see* page 204),, Extracts, Granular (Standardised) (*see* page 205)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

„ Extracts, Liquid (Standardised) (*see* page 207)

„ Gelsemine Hydrochloride (Gelsemininum Hydrochloricum Cryst. Ger.)

A salt of the crystallisable alkaloid of *Gelsemium nitidum*.

Dose—gr. 1/120 to gr. 1/30 (0.0005 gm. to 0.002 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and gr. 15 (1 gm.)

„ Gelsemium, Concentrated Tincture of (*see* page 217)

„ Gelsemium, Liquid Extract of (Standardised) (*see* page 209)

„ Gentian, Concentrated Compound Tincture of (*see* page 217)

„ Gentian, B.P., Extract of (*see* page 205)

„ Ginger, Concentrated Tincture of (*see* page 217)

„ Guaiacol Camphorate

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1/2 (14 gm.)

„ Hæmoglobin

This is in the form of scales which are readily soluble in water. It is prepared under the most careful conditions from fresh blood, and is free from fibrin, serum, fat and other undesirable constituents.

Dose—gr. 5 to gr. 20 (0.3 gm. to 1.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Hamamelis, Concentrated Tincture of (*see* page 217)

„ Hamamelis, B.P., Liquid Extract of (*see* page 209)

„ Homatropine (*Pure Alkaloid*)

Issued in tubes of gr. 5 (0.3 gm.)

„ Homatropine Hydrobromide, B.P.

Recent research on the synthetic tropeïnes in the 'Wellcome' Chemical Research Laboratories has enabled this salt of homatropine (mandelyltropeïne) to be presented in an exceptionally pure form. The

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

importance of this high degree of purity is best realised when the use of the minute dose of the drug as a mydriatic is considered.

Dose—gr. $\frac{1}{80}$ to gr. $\frac{1}{20}$ (0.0008 gm. to 0.003 gm.)

Issued in tubes of gr. 5 (0.3 gm.)

„ Hops, Concentrated Tincture of (*see* page 218)

„ Hydrastine (*Pure Alkaloid*)

The crystallised white alkaloid from *Hydrastis canadensis*.

Dose—gr. $\frac{1}{4}$ to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in tubes of gr. 15 (1 gm.) and bottles of oz. 1 (28.3 gm.)

„ Hydrastine Hydrochloride

This salt of the pure white alkaloid is readily soluble in water.

Dose—gr. $\frac{1}{4}$ to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in tubes of gr. 15 (1 gm.) and bottles of oz. 1 (28.3 gm.)

„ Hydrastinine Hydrochloride

This substance is an oxidation product of the alkaloid hydrastine, and is free from other bases produced at the same time with which it is generally associated.

Dose—gr. $\frac{1}{4}$ to gr. $\frac{1}{2}$ (0.015 gm. to 0.03 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and 1 gramme

„ Hydrastis, Concentrated Tincture of (*see* page 218)

„ Hydrastis, B.P., Liquid Extract of (Standardised) (*see* page 209)

„ Hyoscine Hydrobromide

The alkaloid *hyoscine* has also been designated as *scopolamine*, with reference to its source. The name recognised by the British Pharmacopœia is here adopted.

Dose—gr. $\frac{1}{200}$ to gr. $\frac{1}{100}$ (0.0003 gm. to 0.0006 gm.)

Issued in tubes of gr. 15 (1 gm.) and bottles of gr. 60 (3.9 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**,, Hyoscyamine (*Pure Alkaloid*)

This alkaloid is free from atropine and hyoscine.

Dose—gr. 1/200 to gr. 1/100 (0.0003 gm. to 0.0006 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and gr. 15 (1 gm.)

,, Hyoscyamine Sulphate

Dose—gr. 1/200 to gr. 1/100 (0.0003 gm. to 0.0006 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and gr. 15 (1 gm.)

,, Hyoscyamus, Concentrated Tincture of (*see page 218*),, Hyoscyamus, Liquid Extract of (Standardised) (*see page 210*),, Hyoscyamus (Miscible), Liquid Extract of (Standardised) (*see page 210*),, Hyoscyamus, Standardised Granular Extract of (*see page 206*),, Iodine, Concentrated Tincture of (*see page 218*),, Ipecacuanha, B.P., Liquid Extract of (Standardised) (*see page 210*)

,, Ipecacuanha sine Emetina

This is ipecacuanha from which the emetic principles have been extracted. It is practically free from alkaloid.

Dose—gr. 10 to gr. 30 (0.65 gm. to 2 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Iridin (Ext. Iridis Siccum)

Prepared from the carefully selected genuine drug, *Iris versicolor*.

Dose—gr. 1 to gr. 5 (0.06 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Iron and Ammonium Citrate, B.P.

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Iron and Ammonium Citrate (*Green*)

This preparation differs slightly in composition from the official citrate; it contains about 15 per cent. of iron. It is readily soluble in water, affording a bright green solution.

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Iron and Quinine Citrate, B. P.

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Iron Arsenate (*Soluble*)

This product is in handsome green scales, and contains 13 per cent. of arsenic in the form of arsenate, equivalent to 34–35 per cent. of anhydrous ferric arsenate.

Dose—gr. 1/16 to gr. 1/4 (0.004 gm. to 0.015 gm.)

Issued in bottles of oz. 1 (28.3 gr.)

,, Iron Glycerophosphate

This is a pure salt in handsome scales, readily soluble in warm water.

Dose—gr. 3 to gr. 6 (0.2 gm. to 0.4 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Iron Hypophosphite (*Soluble*)

This preparation is in handsome greenish scales, and is distinguished from the ordinary iron hypophosphite by its ready solubility in water. It contains about 12 per cent. of iron.

Dose—gr. 1 to gr. 5 (0.06 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Iron Phosphate (*Soluble*)

This is a soluble ferric phosphate, in the form of bright green scales, and corresponds to the preparation recognised by the United States Pharmacopœia.

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Iron Pyrophosphate (*Soluble*)

This is a soluble ferric pyrophosphate, in the form of green scales, and corresponds to the preparation recognised by the United States Pharmacopœia.

DOSE—gr. 5 to gr. 10 (0.30 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Jaborandi, Concentrated Tincture of (*see* page 218),, Jaborandi (Miscible), Liquid Extract of (Standardised) (*see* page 210),, Jalap, Concentrated Tincture of (*see* page 218),, Jalap, Powdered Extract of (*see* page 205),, Krameria, Concentrated Tincture of (*see* page 219),, Lavender, Concentrated Compound Tincture of (*see* page 219)

,, Leptandrin

The true resinous principle of *Veronica (Leptandra) virginica*, as distinguished from much of the leptandrin of commerce, which is merely an extract.

DOSE—gr. 1/4 to gr. 2 (0.015 gm. to 0.13 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Lithium Benzoate

DOSE—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Lithium Citrate

DOSE—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Lithium Formate

DOSE—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

„ Lithium Salicylate (*physiologically pure*)

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

„ Liquorice, B.P., Extract of (*see page 205*)

„ Lobelia, Concentrated Ethereal Tincture of (*see page 219*)

„ Magnesium Glycerophosphate

A white amorphous powder, freely soluble in water, stable in the air.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Male Fern, B.P., Liquid Extract of (*see page 210*)

„ Manganese and Iron Citrate (*Soluble*)

This is a scale salt, readily soluble in water. It contains about 7 per cent. of manganese and 14 per cent. of iron in organic combination.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

„ Manganese and Iron Citrate with Arsenic (*Soluble*)

This preparation contains 0.5 per cent. of arsenious anhydride, but is otherwise indetical with Manganese and Iron Citrate (*Soluble*).

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Manganese and Iron Citrate with Quinine (*Soluble*)

This preparation contains 15 per cent. of quinine, but is otherwise indetical with Manganese and Iron Citrate (*Soluble*).

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**,, Manganese and Iron Citrate with Strychnine (*Soluble*)

This preparation contains 1 per cent. of strychnine, but is otherwise identical with Manganese and Iron Citrate (*Soluble*).

Dose—gr. 1 to gr. 3 (0.06 gm. to 0.2 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Manganese and Iron Phosphate (*Soluble*)

This scale salt dissolves readily in warm water. It contains about 7 per cent. of manganese and 14 per cent. of iron.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Manganese Citrate (*Soluble*)

This preparation is in the form of handsome, nearly colourless scales, which are readily soluble in water. It contains about 12 per cent. of manganese in organic combination.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Manganese Peroxide (*Pure*)

In distinction from the crude mineral usually found in commerce, this preparation possesses a high degree of purity, and is specially adapted for medicinal use. It contains approximately 85 per cent. of manganese peroxide, MnO_2 .

Dose—gr. 2 to gr. 10 (0.13 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Mercuric Potassium Iodide (*Soluble*)

Dose—gr. 1/12 to gr. 1/3 (0.005 gm. to 0.02 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Mercury Iodide, Red, B.P. (Mercuric Iodide)

Dose—gr. 1/32 to gr. 1/16 (0.002 gm. to 0.004 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Mercury Iodide, Yellow (Pure Mercurous Iodide)

A true mercurous iodide of definite and constant composition. Contains no free mercury.

Dose—gr. $\frac{1}{8}$ to gr. 1 (0.008 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Mercury Oleate

This preparation contains an amount of mercury equivalent to 20 per cent. of mercuric oxide.

Issued in pots of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Mercury Oxide, Yellow, B.P.

This is in very fine powder, and is specially suitable for eye and other ointments where extreme smoothness is required.

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Mercury Subchloride, B.P. (Calomel)

This drug is of uniform physical character, being prepared by sublimation. It is free from mercuric chloride and other contaminations, and therefore possesses the desired uniformity of action.

Dose—gr. $\frac{1}{2}$ to gr. 5 (0.03 gm. to 0.3 gm.)

Issued in bottles of oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

,, Morphine Acetate, B.P.

Dose—gr. $\frac{1}{8}$ to gr. $\frac{1}{2}$ (0.008 gm. to 0.03 gm.)

Issued in bottles of oz. $\frac{1}{8}$ (3.5 gm.), oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Morphine Hydrochloride

This salt is presented in a more compact form of crystals than that usually supplied, although identical in composition with the official salt. It is believed that its diminished bulk will render it more convenient for storage and dispensing.

Dose—gr. $\frac{1}{8}$ to gr. $\frac{1}{2}$ (0.008 gm. to 0.03 gm.)

Issued in bottles of oz. $\frac{1}{8}$ (3.5 gm.), oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Morphine Sulphate

The same remarks apply to this salt of morphine as to the hydrochloride.

Dose—gr. 1/8 to gr. 1/2 (0.008 gm. to 0.03 gm.)

Issued in bottles of oz. 1/8 (3.5 gm.), oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Morphine Tartrate

This salt conforms strictly to the requirements of the British Pharmacopœia.

Dose—gr. 1/8 to gr. 1/2 (0.008 gm. to 0.03 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Myrrh, Concentrated Tincture of (*see* page 219),, Nux Vomica, B.P., Liquid Extract of (Standardised) (*see* page 211),, Nux Vomica, Standardised Granular Extract of (*see* page 206),, Opium, Concentrated Tincture of (*see* page 219),, Opium, B.P., Liquid Extract of (Standardised) (*see* page 211),, Opium (Miscible), Liquid Extract of (Standardised) (*see* page 211),, Opium, Standardised Granular Extract of (*see* page 206)

,, Pelletierine Tannate

An amorphous product. Prepared from the total alkaloids of pomegranate bark.

Dose—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of gr. 60 (3.9 gm.)

,, Physostigmine (*Pure Alkaloid*)

Issued in tubes of gr. 2 (0.13 gm.) and gr. 5 (0.3 gm.)

,, Physostigmine Hydrobromide (Eserine Hydrobromide)

Dose—gr. 1/60 to gr. 1/20 (0.001 gm. to 0.003 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and gr. 15 (1 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Physostigmine Salicylate (Eserine Salicylate)

DOSE—gr. 1/60 to gr. 1/20 (0.001 gm. to 0.003 gm.)

Issued in tubes of gr. 5 (0.3 gm.) and gr. 15 (1 gm.)

,, Physostigmine Sulphate (Eserine Sulphate), B.P.

DOSE—gr. 1/60 to gr. 1/20 (0.001 gm. to 0.003 gm.)

Issued in tubes of gr. 2 (0.13 gm.) and gr. 5 (0.3 gm.)

,, Pilocarpine Hydrochloride

The 'Wellcome' Brand salts of pilocarpine are free from the less active isopilocarpine and the inactive pilocarpidine. Their purity is guaranteed by their respective melting points, which are indicated on each package.

DOSE—gr. 1/20 to gr. 1/2 (0.003 gm. to 0.03 gm.)

Issued in tubes of gr. 15 (1 gm.); and in bottles of gr. 60 (3.9 gm.), oz. 1/2 (14 gm.) and oz. 1 (28.3 gm.)

,, Pilocarpine Nitrate, B.P.

This salt of pilocarpine is stable, and is the one best adapted for general use.

DOSE—gr. 1/20 to gr. 1/2 (0.003 gm. to 0.03 gm.)

Issued in tubes of gr. 15 (1 gm.); and in bottles of gr. 60 (3.9 gm.), oz. 1/2 (14 gm.) and oz. 1 (28.3 gm.)

,, Piperine

The pure, crystallised alkaloid of black pepper.

DOSE—gr. 1 to gr. 5 (0.06 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Podophyllin (Podophylli Resina, P.B.)

Prepared strictly in accordance with the official method, from a carefully-selected drug.

DOSE—gr. 1/4 to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.),, Podophyllum, Concentrated Tincture of (*see page 220*) *

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Potassium Glycerophosphate

A syrupy liquid containing 75 per cent. of potassium glycerophosphate.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Pyrethrum, Concentrated Tincture of (*see page 220*)

,, Quinine Acetyl-salicylate

This product combines the therapeutic effects of quinine with those of acetyl-salicylic acid.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Quinine Bihydrochloride (Acid Quinine Hydrochloride)

Dose—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Quinine Bisulphate

This salt, being readily soluble in water (1 in 10), is more convenient for many purposes than the insoluble official sulphate.

Dose—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Quinine Hydrobromide

Dose—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Quinine Hydrochloride

Dose—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Quinine Hypophosphite

Dose—gr. 1 to gr. 3 (0.06 gm. 0.2 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Quinine Lactate

Dose—gr. 1 to gr. 5 (0.06 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Quinine Phosphate

DOSE—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Quinine Quinate

DOSE—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Quinine Salicylate

Prepared from physiologically pure salicylic acid.

DOSE—gr. 2 to gr. 6 (0.13 gm. to 0.4 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Quinine Sulphate

This salt is presented in a more compact form of crystals than that usually supplied, although identical in composition with the official salt. It is believed that its diminished bulk will render it more convenient for storage and dispensing.

When ordering Quinine Sulphate, please indicate whether "compact" or "large flake" is required.

DOSE—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.); also in tins of oz. 25 (709 gm.) and oz. 100 (2835 gm.),, Quinine Sulphate (*Large Flake*)

This is the official salt in the usual bulky form of light feathery crystals. We recommend in preference the compact crystals, which occupy one-third the space, as being more portable and convenient.

When ordering Quinine Sulphate, please indicate whether "compact" or "large flake" is required.

DOSE—gr. 1 to gr. 10 (0.06 gm. to 0.65 gm.)

Issued in bottles of oz. 1/4 (7 gm.), oz. 1/2 (14 gm.) and oz. 1 (28.3 gm.); and in tins of oz. 4 (113 gm.); also in tins of oz. 25 (709 gm.) and oz. 100 (2835 gm.),, Rhubarb, Concentrated Compound Tincture of (*see page 220*),, Rhubarb, Granular Extract of (*see page 206*)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Saffron, Concentrated Tincture of (*see* page 220)

,, Sarsaparilla, B.P., Liquid Extract of (*see* page 211)

,, Scammony Resin, B.P.

This resin is issued in the form of a fine, light-coloured powder, which is specially convenient for dispensing.

Dose—gr. 3 to gr. 8 (0.2 gm. to 0.5 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Senega, Concentrated Tincture of (*see* page 220)

,, Senna, Concentrated Compound Tincture of (*see* page 221)

,, Serpentry, Concentrated Tincture of (*see* page 221)

,, Sodium Formate

Dose—gr. 5 to gr. 10 (0.3 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Sodium Glycerophosphate

This is presented in the form of colourless crystalline flakes, which are permanent in the air. It is of definite and uniform composition and is much superior to, and more convenient than, the uncertain solutions usually employed.

Dose—gr. 2 to gr. 5 (0.13 gm. to 0.3 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Sodium Hypophosphite (*Pure Crystals*)

In colourless transparent crystals containing one molecule of water of crystallisation. It is free from phosphate and phosphite.

Dose—gr. 3 to gr. 10 (0.2 gm. to 0.65 gm.)

Issued in bottles of oz. 1 (28.3 gm.), oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Sodium Salicylate, B.P. (*physiologically pure*)

This salt is issued in "powder" and in "flake." When ordering, please indicate which is required.

Dose—gr. 10 to gr. 30 (0.65 gm. to 2 gm.)

Issued in bottles of oz. 4 (113 gm.), oz. 8 (227 gm.) and oz. 16 (454 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Sodium Salicylate (*Natural*)

Prepared from genuine oil of wintergreen.

Dose—gr. 10 to gr. 30 (0.65 gm. to 2 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Sparteine Sulphate

This definite crystalline salt is recommended as producing more certain and uniform results than the variable infusion or juice of broom.

Dose—gr. 1/2 to gr. 1 (0.03 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Squill, Concentrated Tincture of (*see page 221*),, Squill, B.P., Tincture of (*see page 212*),, Stramonium, Concentrated Tincture of (*see page 221*),, Strophanthus, Concentrated Tincture of (*see page 221*),, Strychnine (*Pure Alkaloid*), B.P.

Dose—gr. 1/60 to gr. 1/15 (0.001 gm. to 0.004 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Strychnine Hydrochloride, B.P.

Dose—gr. 1/60 to gr. 1/15 (0.001 gm. to 0.004 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Sumbul, Concentrated Tincture of (*see page 222*),, Taraxacum, B.P., Extract of (*see page 205*),, Taraxacum, B.P., Liquid Extract of (*see page 211*),, Tinctures, Concentrated (*see pages 213-222*),, Tinctures, B.P. (*Physiologically Standardised*) (*see page 212*),, Tolu, Concentrated Tincture of Balsam of (*see page 222*),, Valerian, Concentrated Ammoniated Tincture of
(*see page 222*)

EXTRACTS, 'WELLCOME' BRAND

'Wellcome' Brand Extracts are prepared from specially selected drugs of the highest quality, carefully picked over before treatment. The exceptional plant which has been installed for dealing with preparations of this class enables Burroughs Wellcome & Co. to offer a series of extracts of unparalleled excellence.

'WELLCOME' BRAND—

„ Aloes, B.P., Extract of Barbados

This preparation is made strictly according to the official method.

Dose—gr. 1 to gr. 4 (0.06 gm. to 0.25 gm.)

Issued in bottles of oz. 4 (113 gm.) and oz. 8 (227 gm.)

„ Belladonna, B.P., Alcoholic Extract of

This preparation is made strictly according to the official method, and is standardised to contain 1 per cent. of total alkaloid.

Dose—gr. 1/4 to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in pots of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Belladonna, B.P., Green Extract of

This preparation is made strictly according to the official method, but is standardised to contain 1 per cent. of total alkaloid.

Dose—gr. 1/4 to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in pots of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Cannabis Indica, B.P., Extract of (*Physiologically Controlled, Wellcome Physiological Research Laboratories*)

This preparation is made strictly according to the official method.

Dose—gr. 1/4 to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in pots of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

„ Cascara Sagrada, B.P., Extract of

This preparation is made strictly according to the official method.

Dose—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 4 (113 gm.) and oz. 8 (227 gm.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Colchicum, B.P., Extract of

This preparation is made strictly according to the official method.

DOSE—gr. 1/4 to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in pots of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Colocynth, Powdered Compound Extract of

This preparation corresponds to the B.P. Extract.

DOSE—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Gentian, B.P., Extract of

This preparation is made strictly according to the official method.

DOSE—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in pots of oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Jalap, Powdered Extract of

This preparation corresponds to the B.P. Extract.

DOSE—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 1 (28.3 gm.) and oz. 4 (113 gm.)

,, Liquorice, B.P., Extract of

This preparation is made strictly according to the official method.

Issued in pots of oz. 4 (113 gm.) and oz. 8 (227 gm.)

,, Taraxacum, B.P., Extract of

This preparation is made strictly according to the official method.

DOSE—gr. 5 to gr. 15 (0.3 gm. to 1 gm.)

Issued in pots of oz. 4 (113 gm.) and oz. 8 (227 gm.)

STANDARDISED GRANULAR EXTRACTS 'WELLCOME' BRAND

'Wellcome' Brand Granular Extracts possess many advantages over the usual form of solid extracts. They are uniform and reliable, and more convenient for dispensing than the ordinary soft extracts.

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Belladonna (Green), Standardised Granular Extract of

This preparation corresponds to the B.P. Extract, but is standardised to contain 1 per cent. of total alkaloid.

Dose—gr. $\frac{1}{4}$ to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Cascara Sagrada, Granular Extract of

This preparation corresponds to the B.P. Extract.

Dose—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 4 (113 gm.)

,, Ergot, Granular Extract of

(Made from ergot physiologically tested in the Wellcome Physiological Research Laboratories)

This preparation corresponds to the B.P. Extract.

Dose—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Hyoscyamus, Standardised Granular Extract of

This preparation corresponds to the B.P. Extract, but is standardised to contain 0.2 per cent. of total alkaloid.

Dose—gr. 2 to gr. 8 (0.13 gm. to 0.5 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Nux Vomica, Standardised Granular Extract of

This preparation corresponds to the B.P. Extract, and contains 5 per cent. of strychnine.

Dose—gr. $\frac{1}{4}$ to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Opium, Standardised Granular Extract of

This preparation corresponds to the B.P. Extract, and contains 20 per cent. of morphine.

Dose—gr. $\frac{1}{4}$ to gr. 1 (0.015 gm. to 0.06 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

,, Rhubarb, Granular Extract of

This preparation is made by a special process, whereby the full therapeutic value of the rhubarb is retained.

Dose—gr. 2 to gr. 6 (0.13 gm. to 0.4 gm.)

Issued in bottles of oz. 1 (28.3 gm.)

STANDARDISED LIQUID EXTRACTS 'WELLCOME' BRAND

These are standardised to represent definite quantities, not of total alkaloids, but of the active principle of the drug so far as possible. With the exception of the B.P. preparations, which are prepared strictly according to the official directions, they are made by a special process embodying the latest researches on the subject. The miscible liquid extracts form a clear mixture with water and on this account may be employed with advantage when the ordinary liquid extracts would prove quite unsuitable. The reliability and uniformity of 'Wellcome' Brand Standardised Liquid Extracts commend them for both prescribing and dispensing.

'WELLCOME' BRAND—

., Aconite, Liquid Extract of

This preparation is standardised to contain 0.1 gm. of ether-soluble alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

DOSE—min. $\frac{1}{4}$ to min. 1 (gtt. $\frac{1}{4}$ to gtt. 1)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Belladonna, B.P., Liquid Extract of

This preparation is made strictly according to the official method, and is standardised to contain 0.75 gm. of total alkaloid in 100 c.c. of extract.

DOSE—min. $\frac{1}{3}$ to min. 1 (gtt. $\frac{1}{3}$ to gtt. 1)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Calabar Bean, Liquid Extract of

This preparation is made by a special process, and is standardised to contain 0.15 gm. of total alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

DOSE—min. 1 to min. 4 (gtt. 1 to gtt. 4)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

., Cascara Sagrada, B.P., Liquid Extract of

This preparation is made strictly according to the official method.

Dose—min. 30 to min. 60 (1·8 c.c. to 3·5 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Cinchona, B.P., Liquid Extract of

This preparation is made strictly according to the official method, and is standardised to contain 5 gm. of total alkaloid in 100 c.c. of extract.

Dose—min. 5 to min. 15 (gtt. 5 to 0·9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Cinchona (Miscible), Liquid Extract of

This preparation is made by a special process, and is standardised to contain 5 gm. of total alkaloid in 100 c.c. of extract.

Dose—min. 5 to min. 15 (gtt. 5 to 0·9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Coca, B.P., Liquid Extract of

This preparation is made strictly according to the official method, but is standardised to contain 0·5 gm. of petroleum-ether-soluble alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

Dose—min. 30 to min. 60 (1·8 c.c. to 3·5 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

., Coca (Miscible), Liquid Extract of

This preparation is made by a special process, and is standardised to contain 0·5 gm. of petroleum-ether-soluble alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug

Dose—min. 30 to min. 60 (1·8 c.c. to 3·5 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Colchicum Seeds, Liquid Extract of

This preparation is standardised to contain 0.5 gm. of colchicine in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

DOSE—min. 1 to min. 3 (gtt. 1 to gtt. 3)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Ergot, B.P., Liquid Extract of

(Made from ergot physiologically tested in the Wellcome Physiological Research Laboratories)

This preparation is made strictly according to the official method.

DOSE—min. 10 to min. 30 (0.6 c.c. to 1.8 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Gelsemium, Liquid Extract of

This preparation is standardised to contain 0.1 gm. of gelsemine in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

DOSE—min. 1 to min. 3 (gtt. 1 to gtt. 3)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Hamamelis, B.P., Liquid Extract of

This preparation is made strictly according to the official method.

DOSE—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Hydrastis, B.P., Liquid Extract of

This preparation is made strictly according to the official method, but is standardised to contain 2.5 gm. of hydrastine in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

DOSE—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Hyoscyamus, Liquid Extract of

This preparation is standardised to contain 0.1 gm. of total alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

Dose—min. 3 to min. 10 (gtt. 3 to 0.6 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Hyoscyamus (Miscible), Liquid Extract of

This extract is standardised to contain 0.1 gm. of total alkaloid in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

Dose—min. 3 to min. 10 (gtt. 3 to 0.6 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Ipecacuanha, B.P., Liquid Extract of

This preparation is made strictly according to the official method, and is standardised to contain from 2 gm. to 2.25 gm. of total alkaloid in 100 c.c. of extract.

Dose—As an expectorant, min. 1/2 to min. 2 (gtt. 1/2 to gtt. 2)

As an emetic, min. 15 to min. 20 (0.9 c.c. to 1.2 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Jaborandi (Miscible), Liquid Extract of

This preparation is made by a special process, and is standardised to contain 0.5 gm. of pilocarpine in 100 c.c. of extract. One part by volume represents one part by weight of standard drug.

Dose—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Male Fern, B.P., Liquid Extract of

This preparation is made strictly according to the official method.

Dose—min. 45 to min. 90 (2.7 c.c. to 5.4 c.c.)

Issued in bottles of fl. oz. 1 (28.4 c.c.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Nux Vomica, B.P., Liquid Extract of

This preparation is made strictly according to the official method, and is standardised to contain 1.5 gm. of strychnine in 100 c.c. of extract.

Dose—min. 1 to min. 3 (gtt. 1 to gtt. 3)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Opium, B.P., Liquid Extract of

This preparation is made strictly according to the official method, and is standardised to contain 0.75 gm. of morphine in 100 c.c. of extract.

Dose—min. 5 to min. 30 (gtt. 5 to 1.8 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Opium (Miscible), Liquid Extract of

This preparation is made by a special process by which the narcotine is removed, and the extract rendered miscible with water. It is standardised to contain 0.75 gm. of morphine in 100 c.c. of extract, and is identical in strength with the B.P. preparation.

Dose—min. 5 to min. 30 (gtt. 5 to 1.8 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Sarsaparilla, B.P., Liquid Extract of

This preparation is made strictly according to the official method.

Dose—fl. dr. 2 to fl. dr. 4 (7 c.c. to 14 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Taraxacum, B.P., Liquid Extract of

This preparation is made strictly according to the official method.

Dose—min. 30 to fl. dr. 2 (1.8 c.c. to 7 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

PHYSIOLOGICALLY STANDARDISED B.P. TINCTURES, 'WELLCOME' BRAND

The methods adopted for physiologically standardising these preparations are based on results obtained in the Wellcome Physiological Research Laboratories and elsewhere, and are those which, in the light of our present knowledge, are best calculated to give accurate and reliable results.

The great importance of uniformity in strength of potent tinctures such as Digitalis, etc., has been emphasised very strongly by the medical profession (*see* Dixon, *Ph. J.*, 1906, page 601).

'WELLCOME' BRAND—

„ Cannabis Indica, B.P., Tincture of

(Physiologically Controlled, Wellcome Physiological Research Laboratories)

This preparation is made strictly according to the official method.

Dose—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Digitalis, B.P., Tincture of

(Physiologically Standardised, Wellcome Physiological Research Laboratories)

This preparation is made strictly according to the official method.

Dose—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Squill, B.P., Tincture of

(Physiologically Standardised, Wellcome Physiological Research Laboratories)

This preparation is made strictly according to the official method.

Dose—min. 5 to min. 15 (gtt. 5 to 0.9 c.c.)

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

CONCENTRATED TINCTURES 'WELLCOME' BRAND

'Wellcome' Brand Concentrated Tinctures are prepared from picked drugs by a special process which retains the full therapeutic value, while the aroma of the diluted preparations is equal to that of tinctures prepared by the usual methods. They are specially suitable for dispensing, and their diminished bulk renders them convenient for transport and storage.

Hitherto, the advantages of concentration have only been obtained at the expense of the aroma and other qualities of the preparation, but in the 'Wellcome' Brand Concentrated Tinctures all difficulties have been overcome, and active, uniform and elegant products are now offered.

Special attention is called to the Tinctures of Cannabis Indica, Digitalis, Squill and Strophanthus, which are physiologically tested. Even the best qualities of these drugs vary extremely in their activity, and it is impossible to determine this by chemical means, but recent investigations have shown that physiological tests offer a reliable means of standardisation. These have been carried out for the firm at the Wellcome Physiological Research Laboratories, by highly-qualified experts who are provided with every facility known to science. The standards adopted have been chosen after long investigation, and represent the average of good tinctures.

All spirituous preparations can be supplied duty-free for export, in quantities of not less than two bulk gallons. This quantity may be made up of assorted preparations, such as Concentrated Tinctures, Liquid Extracts, etc.

'WELLCOME' BRAND—

„ Aconite, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Aconite, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Arnica, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Arnica, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Benzoin, Concentrated Compound Tincture of

One fluid ounce of this product added to three fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Compound Tincture of Benzoin, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Calumba, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Calumba, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Camphor, Concentrated Compound Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Compound Tincture of Camphor, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cannabis Indica, Concentrated Tincture of (*Physiologically Controlled, Wellcome Physiological Research Laboratories*)

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Cannabis Indica, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cantharides, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Cantharides, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Capsicum, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Capsicum, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Cardamoms, Concentrated Compound Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Compound Tincture of Cardamoms, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cascarilla, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Cascarilla, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Catechu, Concentrated Tincture of

One fluid ounce of this product added to two fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Catechu, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Chiretta, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Chiretta, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cimicifuga, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Cimicifuga, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cinchona, Concentrated Compound Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Compound Tincture of Cinchona, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND--**

,, Cinchona, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Cinchona, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cinnamon, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Cinnamon, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cochineal, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Cochineal, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Colchicum Seeds, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Colchicum Seeds, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Conium, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Conium, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Cubebs, Concentrated Tincture of

One fluid ounce of this product added to four fluid

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Cubebs, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Digitalis, Concentrated Tincture of

(Physiologically Standardised, Wellcome Physiological Research Laboratories)

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Digitalis, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Gelsemium, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Gelsemium, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Gentian, Concentrated Compound Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Compound Tincture of Gentian, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Ginger, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Ginger, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

„ Hamamelis, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Hamamelis, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Hops, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Hops, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Hydrastis, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Hydrastis, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Hyoscyamus, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Hyoscyamus, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Iodine, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Iodine, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Jaborandi, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Jaborandi, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Jalap, Concentrated Tincture of

One fluid ounce of this product added to four fluid

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Jalap, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Krameria, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Krameria, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Lavender, Concentrated Compound Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Compound Tincture of Lavender, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Lobelia, Concentrated Ethereal Tincture of

One fluid ounce of this product added to nine fluid ounces of Spirit of Ether, B.P., makes a preparation corresponding to Ethereal Tincture of Lobelia, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Myrrh, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Myrrh, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Opium, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Opium, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Podophyllum, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Podophyllum, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Pyrethrum, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Pyrethrum, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Rhubarb, Concentrated Compound Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Compound Tincture of Rhubarb, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Saffron, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Saffron, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Senega, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Senega, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued

'WELLCOME' BRAND—

,, Senna, Concentrated Compound Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Compound Tincture of Senna, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Serpentry, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Serpentry, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Squill, Concentrated Tincture of

(Physiologically Standardised, Wellcome Physiological Research Laboratories)

One fluid ounce of this product, added to four fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Tincture of Squill, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Stramonium, Concentrated Tincture of

One fluid ounce of this product added to four fluid ounces of alcohol (45 per cent.) makes a preparation corresponding to Tincture of Stramonium, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Strophanthus, Concentrated Tincture of

(Physiologically Standardised, Wellcome Physiological Research Laboratories)

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Strophanthus, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

'Wellcome' Brand Products—continued**'WELLCOME' BRAND—**

,, Sumbul, Concentrated Tincture of

One fluid ounce of this product added to nine fluid ounces of alcohol (70 per cent.) makes a preparation corresponding to Tincture of Sumbul, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Tolu, Concentrated Tincture of Balsam of

One fluid ounce of this product added to four fluid ounces of alcohol (90 per cent.) makes a preparation corresponding to Tincture of Balsam of Tolu, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

,, Valerian, Concentrated Ammoniated Tincture of

One fluid ounce of this product added to three fluid ounces of alcohol (60 per cent.) makes a preparation corresponding to Ammoniated Tincture of Valerian, B.P.

Issued in bottles of fl. oz. 4 (114 c.c.), fl. oz. 8 (227 c.c.) and fl. oz. 16 (455 c.c.)

For prices, see separate list

'WELLCOME' BRAND CHEMICALS

were awarded

A GRAND PRIZE

at each of the following International Exhibitions

ST. LOUIS, 1904

LIÉGE, 1905

MILAN, 1906

'WELLCOME'

Brand

QUININE SULPHATE

'WELLCOME' Brand QUININE SULPHATE is presented in two forms—"compact crystals" and "large flake." The "large flake" is the official



'Wellcome' Brand
Quinine Sulphate
"Large Flake"

Height of 1 oz. bottle,
 $4\frac{1}{2}$ in.

salt in the usual bulky form of fine feathery crystals which in the 'Wellcome' brand product are exceptionally light and white. It is supplied in bottles of $\frac{1}{4}$ oz., $\frac{1}{2}$ oz. and 1 oz. (*as illustrated*); also in 4-oz., 25-oz. and 100-oz. tins. The "compact crystals," which occupy one-third the space, are more convenient for storage and dispensing. They conform to the same high

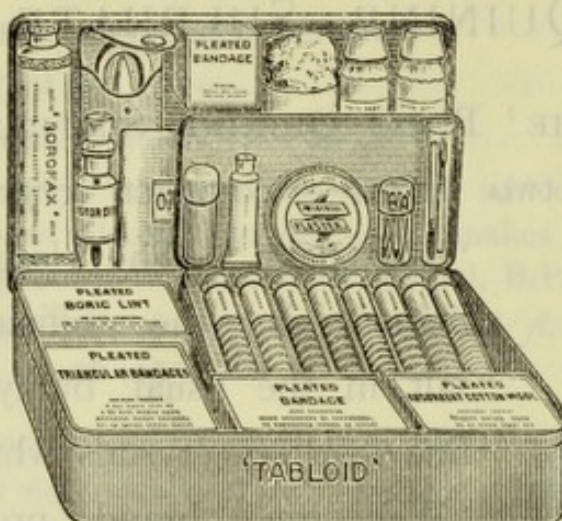
standard of purity as the official salt, and are identical in composition. 'Wellcome' Brand Quinine Sulphate (Compact Crystals) is supplied in 1-oz. and 4-oz. bottles, and in 25-oz. and 100-oz. tins.

Orders for Quinine Sulphate should indicate whether "compact" or "large flake" is required.

See also full list of 'Wellcome' Brand Quinine Salts on
pages 200-201

For particulars and prices, see 'Wellcome' Chemicals Price List

No. 259 'TABLOID' Brand MEDICINE CASE (The Motor-Car Case)



No. 259 'Tabloid' Brand Medicine Case (Motor-Car Case)

Measurements, $7\frac{1}{2} \times 4\frac{1}{2} \times 2$ in.

A black japanned-metal case, with rounded corners, suitable for patients to carry when motoring or touring. It provides simple first-aid remedies and such accessories as may be required in case of emergency. The

Comprehensive outfit contents may be varied at the discretion of the medical man to meet individual requirements. When no special instructions are

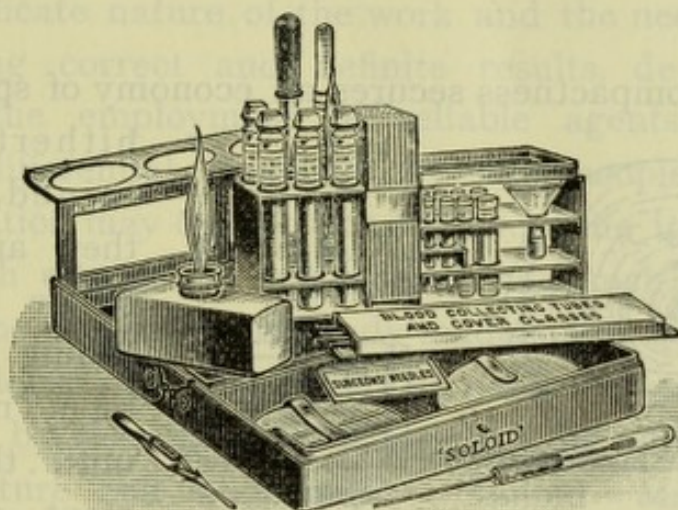
given the case is fitted as follows: 'Tabloid' Pleated Compressed Dressings, comprising one packet of two triangular bandages, one $2\frac{1}{2}$ -inch bandage, one 1-inch bandage, one ounce absorbent cotton wool, and one ounce boric lint. One pair of folding scissors, two camel-hair pencils in glass tube, one yard $\frac{1}{2}$ -inch plaster in tin, Carron oil, sal volatile, safety and ordinary pins, court plaster, oiled gauze, small tube of 'Borofax,' "protective skin," eye-sponge, castor oil in bottle with brush, 'Tabloid' Brand Quinine Bisulphate, gr. 2; Soda-Mint; Cascara Sagrada, gr. 2; Phenacetin Compound; Bismuth Salicylate, gr. 5; Potassium Chlorate and Borax; 'Soloid' Brand Lead Subacetate, gr. 10; Boric Acid, gr. 6 (perfumed).

See also pages 89-105

'SOLOID' Brand BACTERIOLOGICAL CASE
(No. 505) (*Registered*)

This aseptic, polished-metal case provides the necessary equipment for clinical examination by the most recent scientific methods. With its aid bacteriological investigations, which are by most practitioners referred to laboratory workers, can be undertaken with ease and convenience

A scientific
equipment



NO. 505 'SOLOID' BACTERIOLOGICAL CASE
Measurements, $5 \times 3\frac{1}{2} \times 1\frac{5}{8}$ in.

in the surgery. It keeps together in a compact form the essentials for such work. Its small size and light weight permit of its being carried in the pocket, and the physician can utilise it at the patient's bedside to obtain a blood sample or a throat swab.

Light and
compact

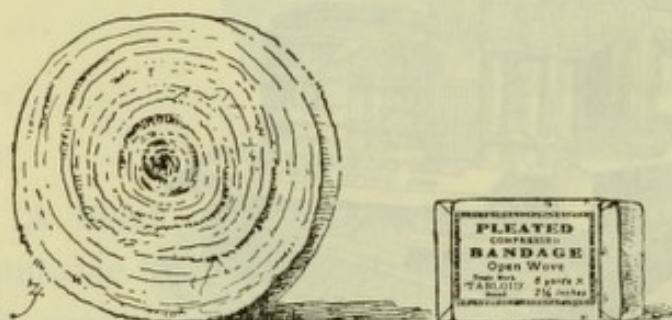
The outfit includes needles and collecting pipettes for taking blood samples. It provides diluting fluid and special stains for blood examination. It contains an adequate supply of slides and cover-slips, and a large selection of 'Soloid' Microscopic Stains; forceps to hold the slide or cover-slip, and a spirit lamp for heating and fixing the films are also included. A rod-stoppered phial of Canada Balsam provides the material for mounting the specimen, which is then ready for microscopic examination.

See also pages 89-105

PLEATED COMPRESSED DRESSINGS

PLEATED COMPRESSED DRESSINGS were originally introduced by Burroughs Wellcome & Co. 'Tabloid' Pleated Compressed Bandages and Dressings are issued to suit all purposes, and provide surgical accessories superior in every particular to the ordinary varieties.

Their compactness secures an economy of space not



Ordinary open-weave
Bandage, 6 yds. $\times 2\frac{1}{2}$ in.

'Tabloid' Pleated
Bandage, 6 yds. $\times 2\frac{1}{2}$ in.

One-half actual size

hitherto attained, and they are kept free from soiling or contamination until the moment of use.

The antiseptic dressings are noteworthy for the evenness with which they are charged with medicament. 'Tabloid' Bandages and Dressings are made of materials of the finest quality, can be unfolded as readily as the more bulky kinds, and are ideal for the medicine-case, hand-bag or pocket.

STERILISED DRESSINGS

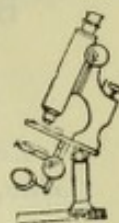
Burroughs Wellcome & Co. have originated a further important advance by the issue of these Pleated Compressed Dressings—*Sterilised*. Each Dressing so issued is carefully sterilised and enclosed automatically in a sterilised impervious covering.

When ordering, please specify *sterilised* if so required

For list, see pages 114-116

Trade
Mark 'SOLOID' Brand

MICROSCOPIC STAINS



Solutions of the aniline dyes for microscopic use are liable to decompose, and are, therefore, unsatisfactory. The delicate nature of the work and the necessity for obtaining correct and definite results, demand the employment of reliable agents. Upon differential diagnosis by microscopic examination may depend consequences the importance of which cannot be exaggerated, and such diagnosis cannot be certain where ready-made staining solutions are employed; these solutions do not keep well, and are affected by vicissitudes of transit and by alterations of temperature and of climate. 'Soloid' Microscopic Stains mark an enormous advance towards the perfection of the technique of microscopic work. The aniline dyes used in their manufacture are of the highest quality; the 'Soloid' products are of such strength that small quantities of staining solutions can be made quickly and easily; the activity and freshness of the dye are always assured.

Reliable
Stains

'Soloid' Microscopic Stains are dry, stable and readily soluble. They have been employed in every land, and have been unaffected by extremes of climate. 'Soloid' products are easily carried; there is no risk of loss by breakage, or of damage by escape of the staining fluid. They are always fresh, and are stable in all climates. They always give satisfaction, since they retain their activity and their staining power unimpaired.

Always
Ready and
Stable

For list of 'Soloid' Stains, see page 145

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G.P.O. Box—“73” Telephone No.—“93 MAIN”

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Cable Address—“TABLOID, SYDNEY”

G.P.O. Box—“1446” Telephone No.—“2332”

○ ○ ○

South African Office—

5, LOOP STREET, CAPE TOWN

Telegraphic Address—“TABLOID, CAPE TOWN”

G.P.O. Box—“1013” Telephone No.—“698”

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Irmão, 123, Rua do Alecrim, 127
MANILA—A. S. Watson & Co.
MEXICO CITY—Emilio Kentzler,
Calle 1A, de San Francisco, 15
NICE—Reilly & Co., 8, Rue Niepce
PARIS—Scott & Co., 4, Rue Chau-
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SIMLA—F. Bliss & Co.
STOCKHOLM—Apoteket
Nordstjernans Droghandel
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Centrale
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MEMORANDA

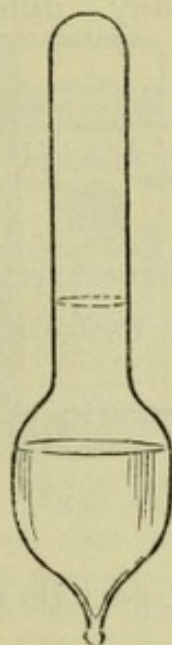
MEMORANDA

MEMORANDA

'ERNUTIN'

(Trade Mark)

The various extracts and preparations of Ergot in ordinary use consist almost entirely of inert or harmful matters having little or none of the therapeutic action



Phial of
'Ernutin'
(Hypodermic)
Actual size

desired. Those preparations which exhibit the characteristic effects of ergot on the blood pressure and the uterus, in laboratory experiment or clinical use, owe their activity to certain specific active principles, the effect of which is in such preparations obscured and complicated by the depressor constituents. As the result of researches carried out at the Wellcome Physiological Research Laboratories, crystalline salts of a new alkaloid of Ergot have recently been obtained in a state of chemical purity. This alkaloid, to which the scientific name of "Ergotoxine" has been given, has a marked effect in stimulating the uterus and in raising blood-pressure. The action of this

The active
therapeutic
principles
of Ergot

Method of
Standard-
isation

principle on the sympathetic nervous system, as indicated by H. H. Dale in his papers on this subject (*Journal of Physiology*, vol. xxxii., p. 58 [*Proc. Phys. Soc.*], 1905; vol. xxxiv., p. 163, 1906), affords a standard for the measurement of activity. 'ERNUTIN' is a preparation of uniform potency, which contains the specific active principles, chief of which is the alkaloid Ergotoxine, in a state of purity which up to the present has never been approached.

'ERNUTIN' is physiologically standardised by observation of its effects on the vaso-motor functions of the sympathetic nervous system.

'ERNUTIN' (Hypodermic) is issued in sterile hermetically-sealed phials containing 10 minims. *Dose: Five to ten minims.*

'ERNUTIN' (for oral administration) is supplied in bottles of 1 oz. *Dose: Thirty to sixty minims.*

'Ernutin' preparations should be protected from light

'HEMISINE'

(Trade Mark)

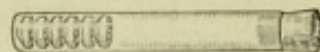
'HEMISINE' products present the active principle of the medulla of the supra-renal gland, having the characteristic vaso-constrictor, hæmostatic

The perfection of the supra-renal principle

and astringent properties. They differ

from other products in

being issued in a dry, stable



Tube of 6 'Soloid' 'Hemisine' products

and soluble condition. With them,

accurate amounts of active solu-

tions can instantly be prepared. 'Hemisine' pro-

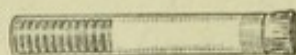
ducts are physiologically standardised and uniformly

represent the supreme activity of

the supra-renal principle. Ready-

made solutions oxidise and lose

their activity: 'Hemisine' has



Tube of 12 'Tabloid' 'Hemisine' products

been proved to retain its power through long periods in extremes of climate.

'Soloid' 'Hemisine' ensures the ready and easy preparation of suitable amounts of a fresh, active solu-

Hæmostatic and vaso-constrictor

tion, which prevents or arrests hæmorrhage

and relieves congestion. A solution of 1 in

1000 arrests bleeding from cut or abraded

surfaces. Solutions and sprays of a

strength of 1 in 5000 to 1 in 10,000

are applied to congested mucous

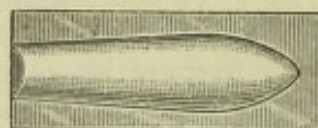
membranes, in common "colds," hay

fever, asthma and œdema of the

pharynx and larynx. Injected hypo-

dermically, 'Hemisine' secures a

bloodless field for operation and increases the value of local anæsthetics.



'Enule' 'Hemisine' enclosed in sheath of pure tinfoil.

This shape originated by B. W. & Co.

For full particulars of the therapeutic uses of 'Hemisine,' see special booklet sent to members of the medical profession on application.

See also pages 118, 129, 140, 159 and 160

'ALAXA'

(Trade Mark)

AN AROMATIC LIQUEUR OF CASCARA SAGRADA

'ALAXA' presents a *fluid* cascara of the same high therapeutic standard as 'TABLOID' CASCARA. It is



Height of bottles, 6 in.

One fluid drachm contains the equivalent of twenty-four minims of Liquid Extract of Cascara Sagrada, B.P.

SPECIAL NOTE

Cordials and Elixirs are so loaded with syrup and flavouring matter that a large dose is required.

The full dose of 'ALAXA' is two fluid drachms.

bility and gentle action render it ideal in the treatment of the constipation of pregnancy.

'ALAXA' is unique. It is a scientific and, at the same time, an agreeable and elegant pharmaceutical product. It is far more satisfactory in use than the bitterless extracts treated with excess of alkali, and rendered comparatively inactive in consequence.

Careful clinical tests have confirmed its certainty of action and emphasised its tonic laxative effect.

'ALAXA' is perfectly stable and neither ferments nor deposits on keeping.

Supplied in bottles of 4 fluid ounces.

the result of specialised study and research, and embodies the nearest approach to the isolation of the pure active principle of Cascara Sagrada yet obtained.

A unique product

Its laxative action is supplemented by stomachic and carminative constituents.

'ALAXA' is so palatable that it may be given as an aperient *apéritif* or a laxative *liqueur*.

By strengthening the digestion and appetite it improves the general condition and restores the normal balance. Its palatability and gentle action render it ideal in the treatment of the constipation of pregnancy.

Tonic action

See also page III

'OPA'

(Trade Mark)

(Formerly known as 'SALODENT')

'OPA' is an aromatic, antiseptic liquid, containing salol, eugenol, 'Pinol,' and other active agents so combined that the whole cavity of the mouth as well as the interstices of the teeth are thoroughly and scientifically cleansed. It destroys septic matter, restores and preserves the natural whiteness of the teeth; it does not injure the delicate structure of the teeth and gums, nor impair the taste.

Fragrant,
antiseptic
dentifrice

As a mouth-wash, 'Opa' is equally effective — by rinsing the mouth with luke-warm water containing a few drops of 'Opa' (according to taste) the mouth and teeth are rendered fully antiseptic; moreover, its action is not transient; not only at the moment of use, but afterwards, it gives a persistent refreshing feeling, purifies the mouth and renders the breath fragrant.



4 oz. bottle of 'Opa' fitted with sprinkler. Height, 5½ in.

Being prepared on a scientific basis, it is particularly efficacious for preserving the beauty and substance of the teeth, as well as keeping the mouth in that state of purity which is not only necessary but most pleasant.

A very
effective
agent

The unique efficacy and fine fragrance of 'Opa' mark it as immeasurably superior to imitations containing crude antiseptics and cheap flavouring agents.

'OPA' is issued in bottles of 2 fl. oz. and 4 fl. oz. (with sprinklers).

See also page 128

‘TABLOID’ LAXATIVE FRUIT PASTILLES

These products afford a most pleasant means of prescribing a sure and efficient laxative to delicate patients, ladies and children, and mark a distinct advance on the old style of laxative preparations. The extract of senna pods, which is Extract of senna pods the active constituent of these pastilles, is



Measurements, $3\frac{1}{2} \times 2\frac{3}{4} \times 1$ in.

distinguished from senna leaves by the absence of any griping effects. Its action is certain but gentle, and as a laxative it deserves a larger use than it has had in the past. The ‘Tabloid’ Pastilles remove all the difficulties of administra-

tion that have hitherto stood in its way.

‘TABLOID’ LEMON JUICE PASTILLES

The uses of lemon juice depend upon clinical rather than physiological data; its therapeutic value, however, depends absolutely upon the quality used.

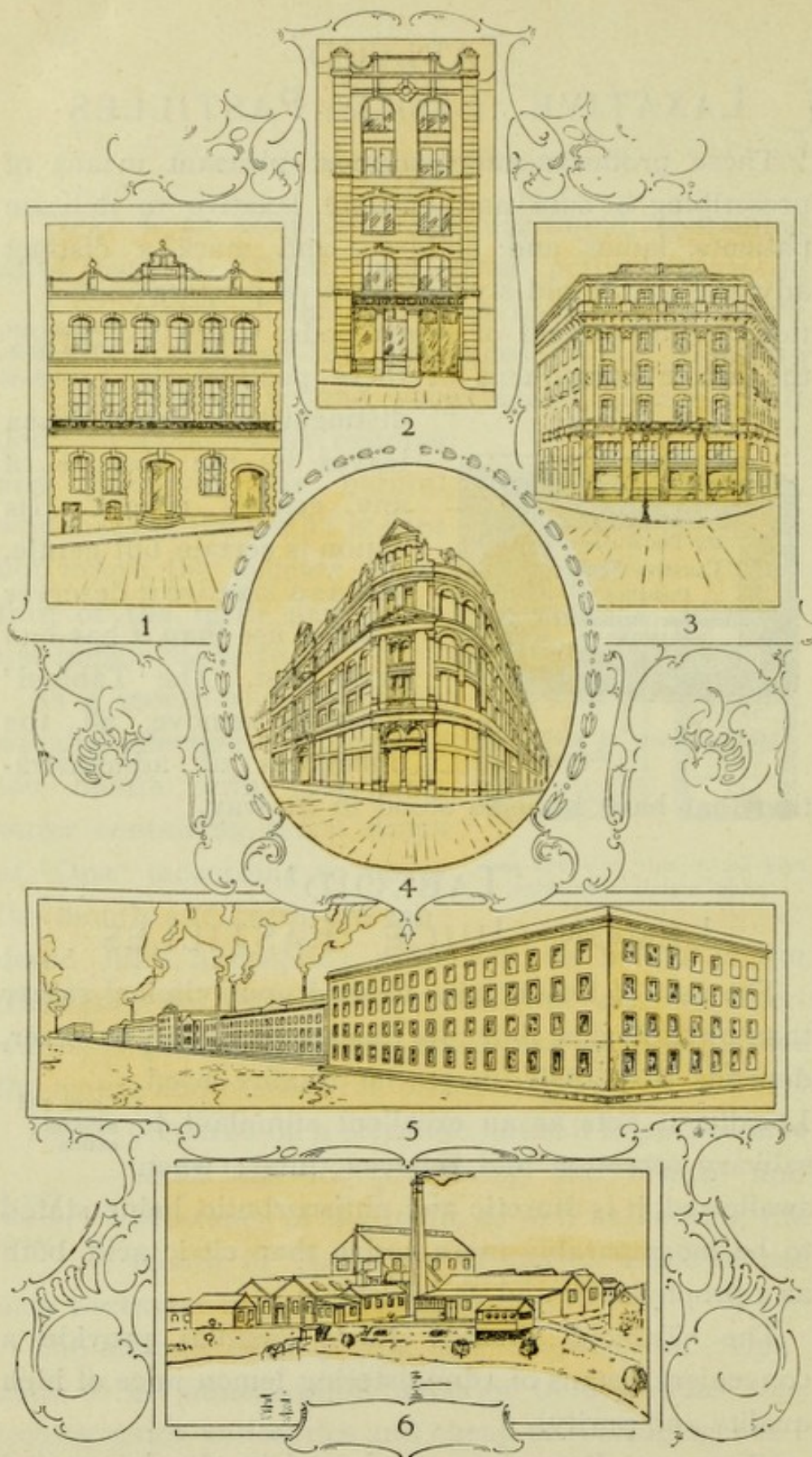
Locally, it acts as an excellent stimulant to salivary secretion and relieves thirst; when swallowed, it is diuretic and antiscorbutic, being stated to be incomparably more active than citric acid, both as a prophylactic and as a curative.

Local and
general
action

The ‘Tabloid’ Lemon Juice Pastilles provide a convenient means of administering lemon juice of high quality and purity.

‘TABLOID’ PASTILLES are issued in aluminium and blue metal boxes of two sizes.

For full list, see pages 130-131

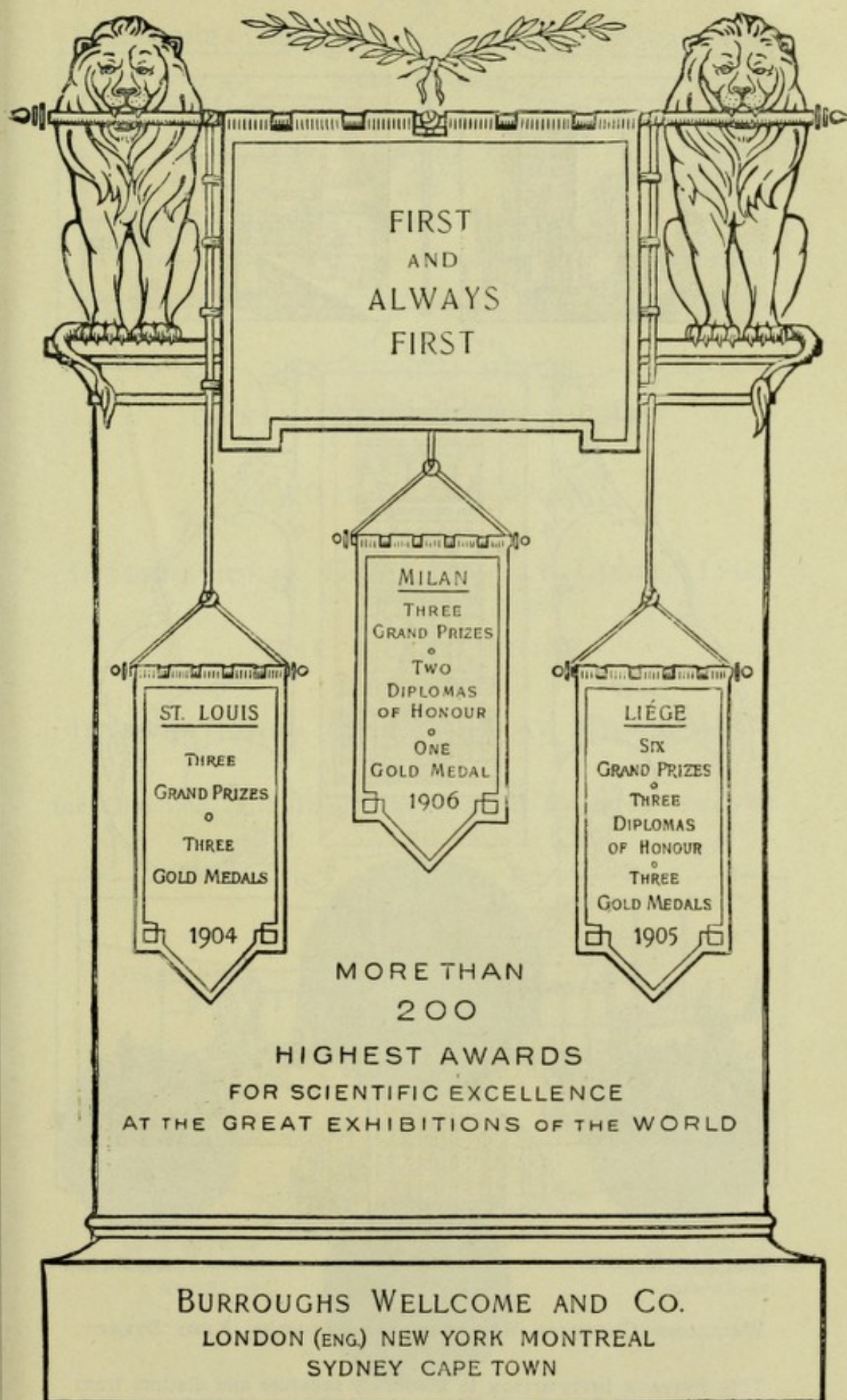


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FIRST
AND
ALWAYS
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ST. LOUIS

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GRAND PRIZES
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THREE
GOLD MEDALS

1904

MILAN

THREE
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◦
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OF HONOUR
◦
ONE
GOLD MEDAL

1906

LIÈGE

SIX
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THREE
DIPLOMAS
OF HONOUR
◦
THREE
GOLD MEDALS

1905

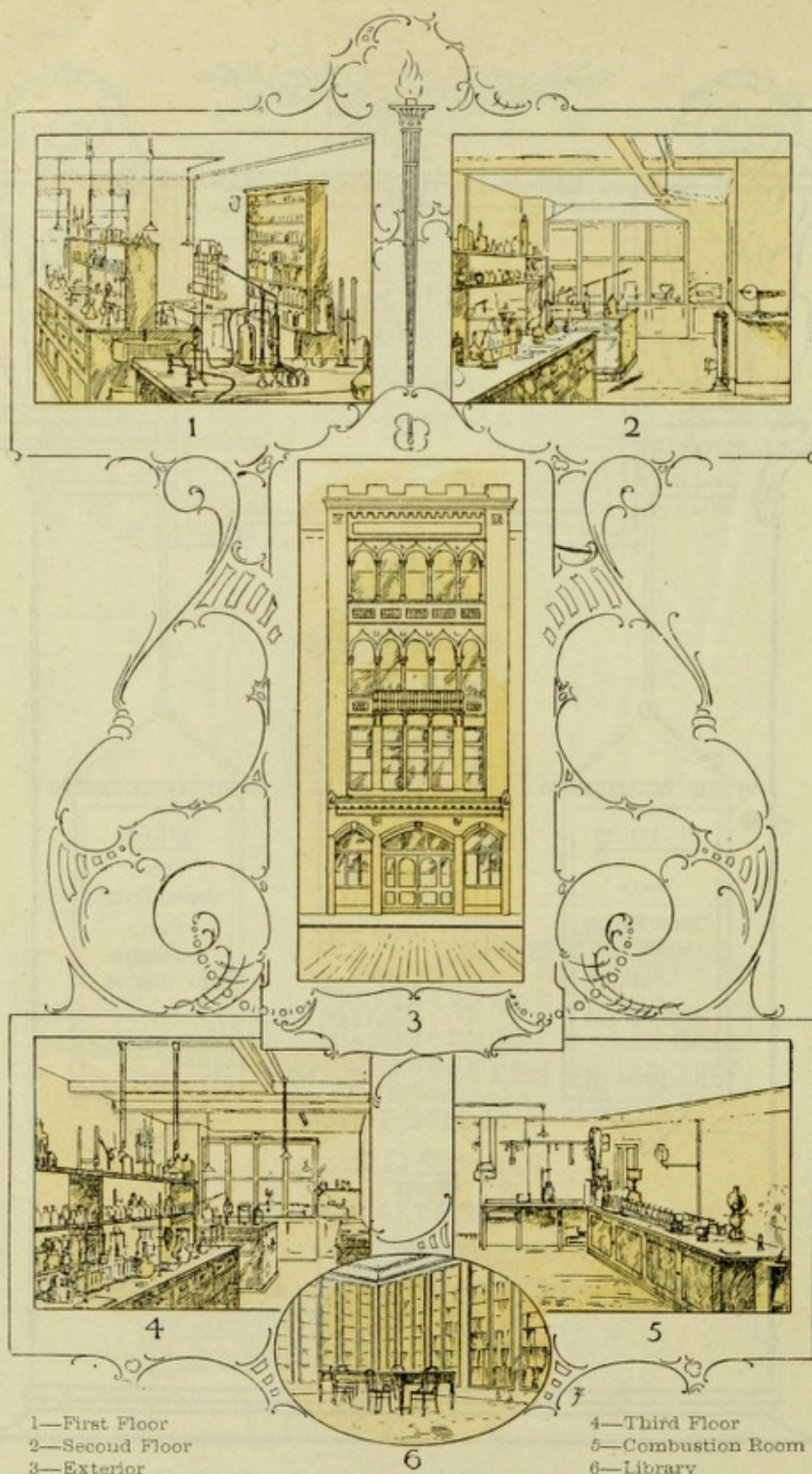
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200

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FOR SCIENTIFIC EXCELLENCE
AT THE GREAT EXHIBITIONS OF THE WORLD

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LONDON (ENG.) NEW YORK MONTREAL

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4—Third Floor
5—Combustion Room
6—Library

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WELLCOME CHEMICAL RESEARCH LABORATORIES
were awarded

ONE GRAND PRIZE
AND
THREE GOLD MEDALS
AT THE
INTERNATIONAL EXPOSITION AT ST. LOUIS, 1904

ONE GRAND PRIZE
ONE DIPLOMA OF HONOUR
AND
TWO GOLD MEDALS
AT THE
INTERNATIONAL EXHIBITION AT LIÉGE, 1905

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for Chemical and Pharmacognostical Research, etc., etc.

GRAND PRIZE



LIÉGE



GOLD MEDAL—LIÉGE



GOLD MEDAL—LIÉGE



DIPLOMA OF HONOUR—LIÉGE

“The strong thing is the just thing.”

Carlyle.

‘Tabloid’ marks the work of
Burroughs Wellcome & Company.

The use of the word is to enable the
physician, chemist and patient to get the
right thing with one short word, instead
of the firm’s long name.

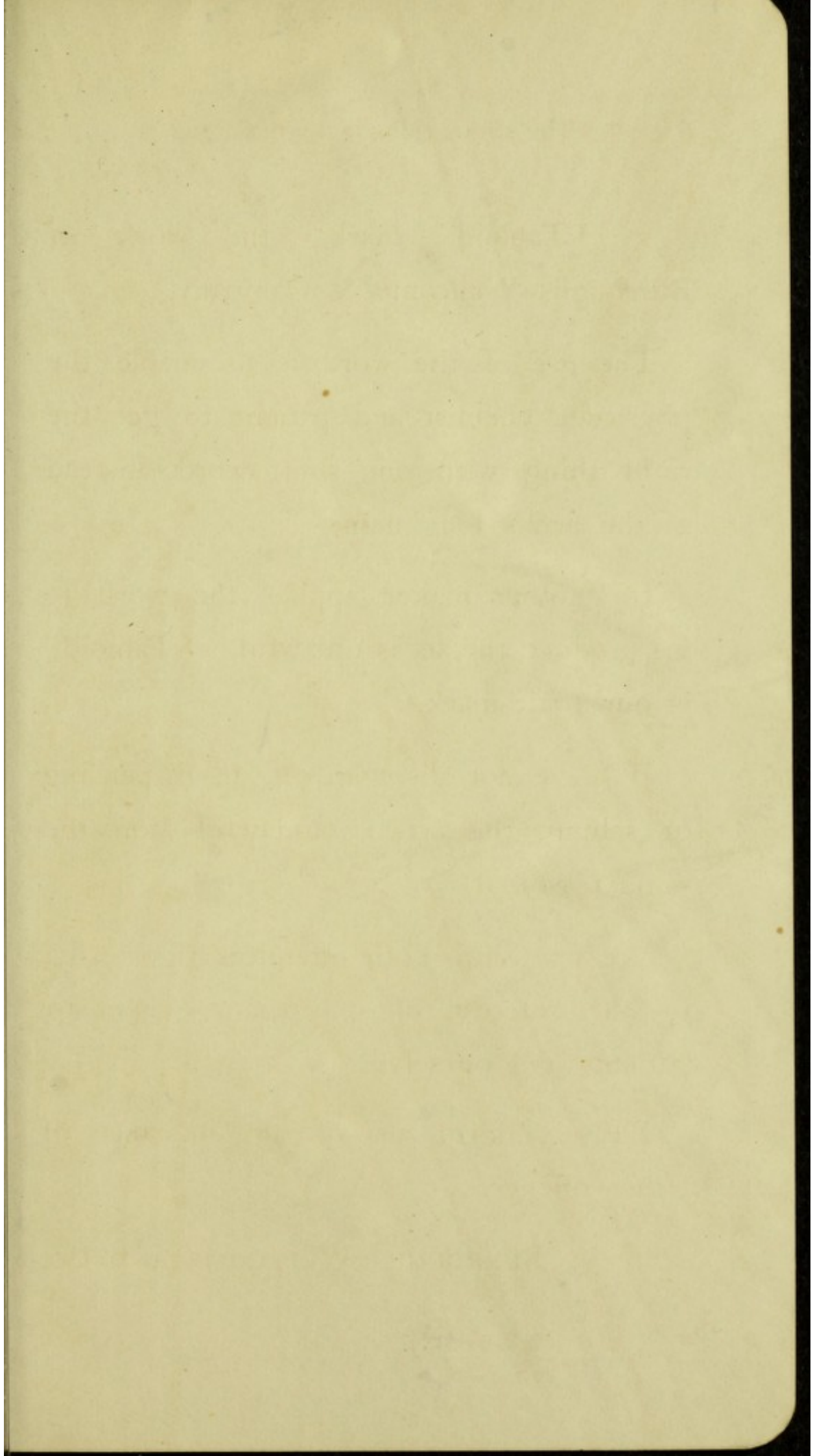
If another maker applies the word to
his product, the act is unlawful. ‘Tabloid’
is our trade-mark.

If a vendor disregard it, in dispensing
or selling, the act is unlawful—for the
same reason.

We prosecute both offenders rigorously,
in the interest of physicians, chemists,
patients and ourselves.

Please inform us of any instance of
either offence.

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Explanation.

Market Towns...
and Boroughs...

Villages Hamlets &c.

Roads



Arms of the Prince of Wales
& Duke of Cornwall

CORNWALL

from the Best
SURVEYS

1748

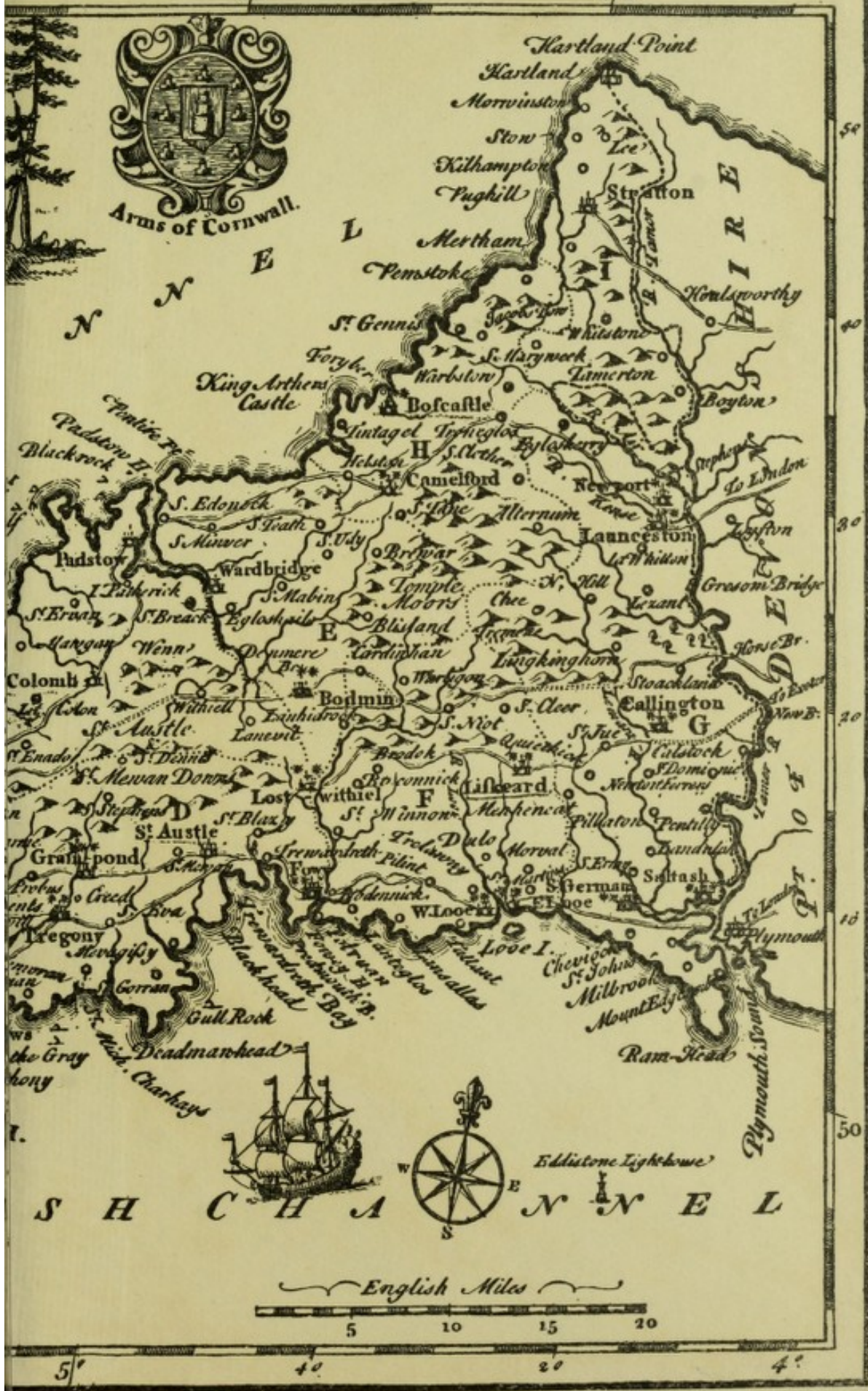


6 Miles Long W. from London 40

20



Arms of Cornwall.



S H C H A N N E L

