

The description of an instrument, called a commander, for reducing a dislocated shoulder / [John Freke].

Contributors

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The Description of an Instrument, called a Commander, for reducing a dislocated Shoulder; invented by Mr. John Freke, Surgeon of St. Bartholomew's Hospital, and F. R. S.

GENTLEMEN,

I Should not have presented this to you, but to shew in how small a Compass the whole Power which can be made use of in reducing a dislocated Shoulder can be contracted. If therefore a Machine for this Purpose be not portable, it matters but little to an afflicted Patient Ten Miles off, how good an Instrument is out of his Reach.

This Machine (see TAB. IV. Fig. 2.) which consists of Two Boxes *A*, joined at the Ends by Two Hinges, contains, when folded together, every thing that can possibly be wanted in the Operation before-mentioned; and it may so easily be made use of, without the Assistance of any other Operator than the Surgeon employed, that I may venture to affirm, a Patient may be set down, the Instrument applied, and the Shoulder reduced, in One Minute, ordinarily speaking.

The Length of this Instrument, when shut up, is One Foot Eight Inches, its Breadth Nine Inches, and Thickness Three Inches and a Quarter. When it is opened, it is kept so by Two Hooks fixed on the Backside of it; and, when one End of it stands on the Ground, the other stands high enough to become a *Fulcrum*, or Support of a Lever *BB*, which is fixed on a Roller *b*, by a large Wood Screw, which turning sideways as well as with the Roller, it obtains a circumrotatory Motion, so that it will serve to reduce a Luxation either backward, forward, or downward.

The Roller on which the Lever is fixed, is just the Diameter of the Depth of one of the Boxes, into which are driven Two Iron Pins, the Ends of which are received by the Two Sides of the Box, which are an Inch thick.

The Lever is Two Foot Four Inches, and is cut off and joined again by One Hinge *C*, to fold up so as to be contained in the Boxes. On the Backside of it is a Hook, to keep it strait; the other End of it is to hang over the Roller about an Inch and half, which is to be excavated and covered with Buff Leather, for the more easy Reception of the Head of the *Os humeri*.

Two Iron Cheeks *DD* are screwed on each Side of the Lever, to receive through them an Iron Roller *E*, which has Two Holes through it, to receive Two Cords coming from a Brace *F*, fixed on the lower Head of the *Os humeri*; for on no other Part of the Arm above the Cubit can a Bandage for this Purpose be useful; for, if the Surgeon applies it on the muscular Part of the Arm, it never fails slipping down to the Joint, before you can extend the Limb.

The Iron Roller has a square End, on which is fixed a Wheel *G*, within the Cheek, notched round, which works as a Ratchet on a Spring Ketch underneath the Lever, by which it is stopped, as you wind it with a Winch; and may at Pleasure be let loose, as there shall be Occasion for it, by discharging the Ketch.

I come now to describe the Brace *F*, which, compared with common Bandages, is of more Consequence than can easily be imagined by unexperienced Persons. It consists of a large Piece of Buff Leather, big enough to embrace the Arm, sewed on Two Pieces of strong Iron curved Plates, riveted together, one of them having an Eye at each End, to fasten Two Cords in; the other is bent at the Ends into Two Hooks, which are to receive the Cords, after they have passed over the Arm above.

To keep the Patient steady in his Chair from coming forward, or letting the *Scapula* slip, on depressing the Lever, after the Limb is drawn forward by the Winch, there must be fixed over the Shoulder a Girth with Two Hooks at the Ends of it, long enough to reach to the Ground on the other Side, where it must be hooked into a Ring *I*, to be screwed into the Floor, for that Purpose.



... of an instrument, called a Commander, for receiving a
dislocated shoulder; invented by Mr. John Fick, Surgeon of St. Barnard's
Hospital, and F.R.S.

INSTRUCTIONS

Should not have presented this to you, but as it is now in how small a
which can be made use of in reducing a dislocated shoulder can be compared to
a Machine for the purpose he not possible, it matters but little to an efficient
is off how good an instrument is out of the world.

his Machine (see Tab. IV. Fig. 2.) which consists of Two Boxes A joined at the ends by
a hinge, contains when folded together, a lever which is used in the
operation of the Machine; and it may be seen by the accompanying drawing
in Operator that the Surgeon employed, the Machine is used in the
as, the instrument applied, and the shoulder is reduced, its breadth being
the length of the instrument, when the up, is O. The lever is kept to by Two
and Thickened Three inches and a Quarter. The lever is kept to by Two
inches on the back of it; and when one hand of the Surgeon is applied, the other
enough to become a fulcrum, or support of a lever, which is kept to by a
Wood screw, which turns in the way as well as with the lever, in a direction
y Motion, so that it will serve to reduce a dislocation either backward, or forward.

Monday
Tuesday
Wednesday

the position on which the lever is fixed, is just the Diameter of the Dumb of one of the
which are given Two Boxes, the back of which are received by the Two Sides of
which are in each thick.

and over is Two Boxes Four inches each in length, and joined together by a hinge, which
is to be connected in the back. On the back of it is a hook, to keep it steady;
and of it is to be over the back of the patient, which is to be extended
to the back of the patient, for the more easy reception of the Head of the Operator.

Two Boxes B are joined on each side of the lever, to receive through them an iron
or A, which has Two Holes through it, to receive Two Coils coming from a Spring F,
on the lower part of the Operator; for on no other Part of the Arm above the Cubit
is there any part of the Arm; for, if the Surgeon applies it on the upper part of
the Arm, it will be liable to slip, and the joint, before you can extend the limb.
When B is in a position, on which is fixed a Wheel C, within the Coils, and
which will be liable to slip, and the joint, before you can extend the limb.
in which is a Wheel, and may at pleasure be let loose, as there shall be Occasion for
discharging the limb.

Some now to describe the Piece F, which, compared with common F, is of more
value than can easily be imagined by unacquainted Persons. It consists of a light Piece
of Wood, big enough to embrace the Arm, fixed on Two Pieces of Iron, just curved
to receive the Arm, and of them being in each Box, to hold a Two Coils in the
the Arm, and the Two Holes, which are to receive the Coils, when they have
received the Arm.

As to the Patient ready in his Chair, when coming forward, or being the
on a cushioned seat, after the limb is reduced by the Machine, the patient
over the shoulder a Cloth with Two Holes at the ends of it, big enough to receive
at on the other side, where it will be fixed, into a Ring A, to be kept steady.

H. Argent

Donum Amici sui

Ioh: Freake.

Inventoris —

