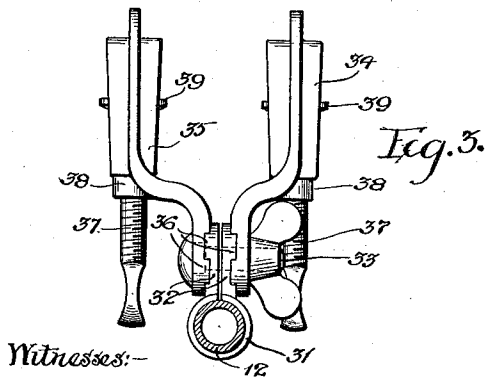
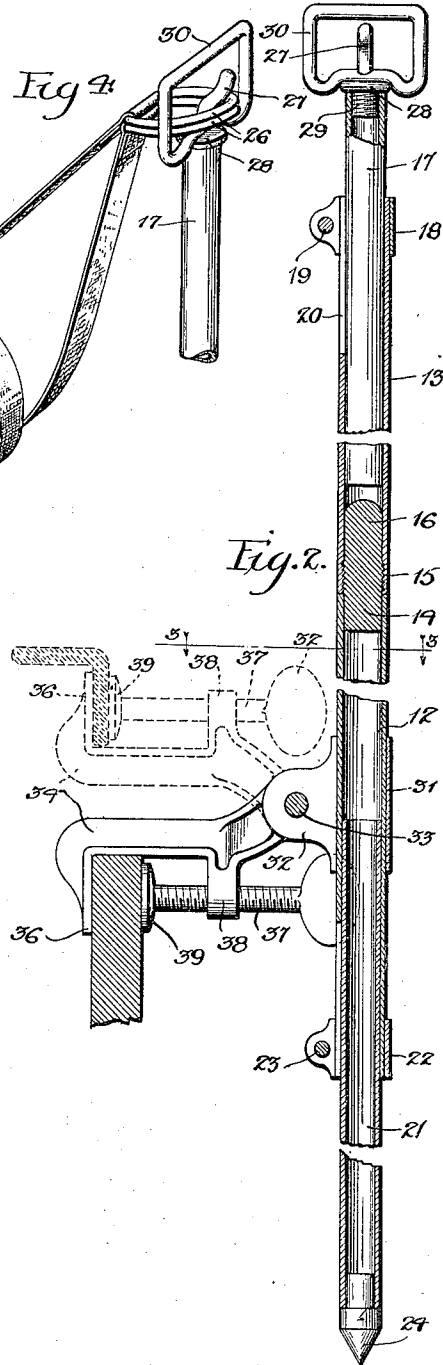
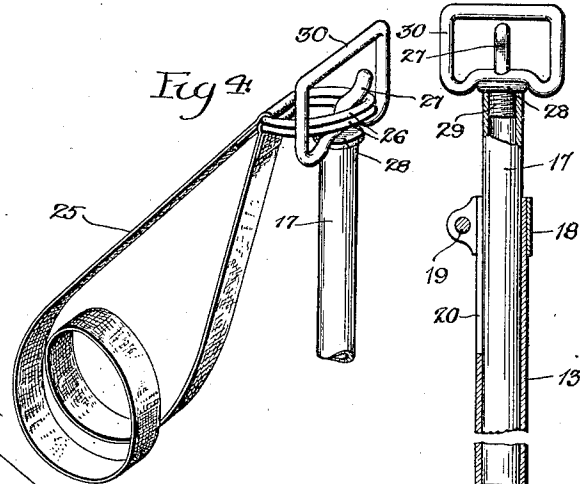
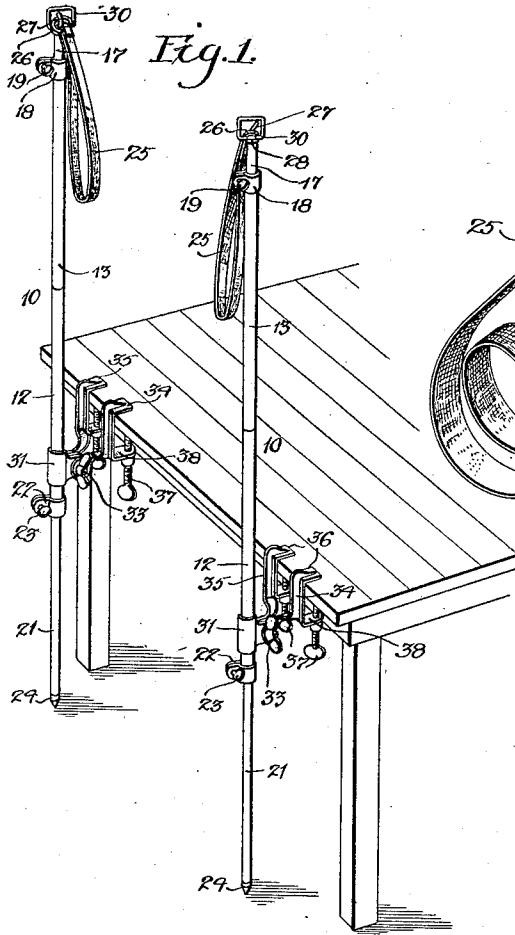


C. M. BRENNAN.
SUPPORT FOR OBSTETRICAL OPERATIONS.
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1,011,150.

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SUPPORT FOR OBSTETRICAL OPERATIONS.

1,011,150.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES M. BRENNAN, a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Supports for Obstetrical Operations, of which the following is a full, clear, and exact description.

The invention relates to obstetrical devices and designs to provide improved means for holding the limbs of a patient during obstetrical treatment or operation, and more particularly to provide a portable and foldable device which may be conveniently carried by a physician and which is adapted to be connected to different supports usually provided for patients, *i. e.*, in some cases the operations are performed or treatment given on tables or couches, especially provided for that purpose, while in most instances the patient occupies a bed which may be of any one of the usual forms.

The invention further designs to provide an obstetrical device which may be readily connected and secured to any of the usual supports, being adapted to be connected to a table or a bed provided with a metallic or angular side-rail or one comprising a wooden side-rail.

The invention also designs to provide a simple device of this character which is made up of sections capable of being folded into small compass and which may be adjusted to different heights to support the limbs of a patient in the desired position, and which is universally adapted for connection to the different types of supports on which a patient may be lying.

The invention consists in the several novel features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings: Figure 1 is a perspective of the improved obstetrical support, being shown as secured to an operating-table. Fig. 2 is a view in vertical section on an enlarged scale, the attaching-means being shown in full lines as connected to the side-rail of a wooden-bed and in dotted lines as connected to the angular metallic rail of a bed. Fig. 3 is a section on line 3—3 of Fig. 2. Fig. 4 is a perspective of one of the stirrups for holding the limb of a patient and the upper portion of a standard to which the stirrup is connected.

The improved device comprises a pair of

standards 10 each of which comprises tubular sections 12 and 13. The upper end of the section 12 has secured therein a plug 14 which has an exterior screw-thread 15 thereon adapted to be engaged by a corresponding thread formed in the lower end of the tubular section 13. The plug 14 is extended beyond the screw-thread as at 16 to fit snugly in the bore of the tubular section 13, to rigidly connect the sections against lateral stresses. The standard 10 is thus formed of sections which may be disconnected so that they may be laid side by side and conveniently carried in a satchel of ordinary size. Each standard 10 also comprises an upper section 17 slidably fitted in the section 13 which is adapted to be adjustably secured in said tubular section by a clamp comprising a split collar 18 and thumb-screw 19, the tubular section 13 being slitted as at 20 to permit the upper end thereof to be clamped to hold section 17. A tubular leg 21 is also slidably held in the lower standard section 12 and is adapted to be secured therein by a clamp comprising a split collar 22 and thumb-nut 23. The lower end of the leg is provided with a suitable foot 24 which may be pointed or formed of rubber to engage the floor so that the standard will be steadied against lateral stresses. The leg 21 is adapted to be pushed into the tubular section 12 when not in use, for convenience in carrying.

A suspension-device for holding the foot or leg of the patient is adapted to be removably connected to the upper end of each of the standards respectively. This device comprises a strap or band 25, to each of the ends of which is attached a ring 26. This band is formed of stout material so that it can be wrapped around the foot or ankle of the patient and so that when the rings 26 are secured or anchored to the standard the leg of the patient will be securely supported and held. This leg-support is detachably connected to a hook 27 which is formed on a plug 28 which is secured in the upper end of the standard-section 17 by a screw-thread 29. When the device is not in use the stirrup may be removed from the hook and it may be applied to the patient by securing one of the rings 26 on the hook and then wrapping the band 25 around the leg or ankle of the patient and then placing the ring at the other end over the hook as shown in Fig. 4. A guard-loop 30 is provided around

the hook so that when the rings have been placed thereon they will be securely held against accidental displacement.

The device comprises clamping-mechanism in which the standard is vertically adjustable and whereby the latter may be secured to different types of supports as operating-tables or beds of different types. This clamping-mechanism comprises a split clamping-collar 31 through which the standard extends and whereby the latter will be secured, projecting ears 32 on the collar, and a screw 33 extending through said ears for clamping the collar around the standard. A pair of clamp-brackets 34 and 35 are respectively mounted at the outer sides of ears 32 and interlocking teeth 36 are provided between the outer faces of said ears and the inner faces of said brackets respectively. Clamping-screw 33 extends through the outer ends of the brackets so that the screw when tightened will clamp the brackets in fixed relation with the clamping-collar 31 and will also clamp said collar securely on the standard. Each of the brackets 34 and 35 comprises a fixed jaw 36', and a clamp screw 37 which has a screw-thread extending through a lug 38 on the bracket and a head or clamping-member 39 adapted to clamp a part of a support against the fixed jaw 36'. The jaws 36' and screws 37 are disposed laterally from the standard so that the latter will be effectively braced against lateral stresses. The clamping-brackets 34 may, when the screw 33 has been loosened, be pivotally adjusted to be shifted into position to engage a horizontally extending support such as the edge of a table shown in Fig. 1, or into position to clamp the upper edge of a wooden-side rail of a bed as shown in full lines Fig. 2. The clamping-brackets may also be reversed either by reversal of the brackets to the opposite sides of the clamping-collar 31 or by slipping the clamping-collar 31 off of the standard-section 12 and reversing it so that the screws 37 will be disposed above the bracket as shown by dotted lines Fig. 2 to engage the vertical flange of the metallic rail of a bed. By adjustment of the screws 37 the brackets may be connected to supports of different thicknesses and securely clamped to such supports so that the vertical standard will be firmly connected to the support on which the patient is resting.

The device is thus adapted to be carried by physicians in a satchel of the size usually used by them. For convenience in carrying, the sectional standard may be removed from the clamping-mechanism for connecting it to a support, and sections 12 and 13 may be disconnected from each other and laid side by side. The leg 21 may be adjusted into the section 12 and the upper section 17 may be pushed into the section 13 so that the parts

may be placed in a satchel substantially as long as one of these sections. The leg-support may be removed from the hook 27 and rolled or folded. Thus all of the parts together occupy but little space so that they may be conveniently carried by a physician.

The clamping-mechanism for securing the standard to a support is adapted to be applied to any of the usual types of support in general use, because the clamping-brackets may be adjusted to clamp the edge of a horizontally extending table or the side-rails of different types of beds. Thus the device is adapted for practically universal application to the different types of support provided for patients. The clamping-mechanism firmly secures the standards in desired relation relatively to the support so they will be supported in properly spaced relation to suit the patient. The height of the leg-support and corresponding height at which the patient's leg or feet will be held may be adjusted by raising or lowering the standard section 17 in the section 12 in the clamping-collar 31 or by adjusting the standard in the clamping-mechanism. Thus provision is made for sustaining the legs in the desired elevation with respect to the rest for the patient. The legs 21 further serve as lateral braces for the standard in event the support to which the clamping-brackets are connected is not sufficiently rigid.

The invention is not to be understood as restricted to the details set forth since these may be modified within the scope of the appended claims without departing from the spirit and scope of the invention.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:

1. In devices of the character described, the combination of a standard, a leg support on said standard, and means for securing said standard to a support comprising a clamp for holding the standard and in which the latter is vertically adjustable, and a clamp pivotally connected to said standard clamp for connection to the last mentioned support.

2. In devices of the character described, the combination of a standard, a leg support on said standard, and means for securing the standard to a support comprising a clamp for holding the standard and in which the latter is vertically adjustable, a clamp pivotally connected to said standard clamp for connection to the last mentioned support, and a common means for fastening said standard clamp and said support clamp.

3. In devices of the character described, the combination of a standard, a leg-support on the standard, and means for securing the standard to a support comprising a clamping-collar around the standard and in which the latter is adjustable, a lug on said collar, 130

a clamp for connection to the support pivotally connected to said lug, an interlocking connection between the lug and said latter clamp, and a screw for securing the standard-clamp and the support-clamp.

4. In devices of the character described, the combination of a standard, a leg-support on the standard, and means for securing the standard to a support comprising a clamping collar around the standard and in which the latter is vertically adjustable, lugs on the collar, a pair of clamp-brackets provided with clamp-screws for connection to the support and pivotally connected to said lugs, an interlocking connection between the brackets and the lugs, and a screw extending through said lugs and brackets whereby the latter will be secured to the collar and the standard secured in the collar.

5. In a device of the character described, the combination of a standard formed of sections, means for rigidly securing two of the sections together, the standard comprising a tubular-section and an adjustable section in the tubular section, a clamp for securing the adjustable section in the tubular-section, a leg for the standard, means for securing the leg to the standard, a leg-support sustained by the standard, and clamping-mechanism for removably securing the standard to a support, comprising an adjustable clamp whereby the standard may be secured either to a horizontally extending or to a vertically extending support.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."