No. 658,999. Patented Oct. 2, 1900.

M. E. SCANNELL.

OPERATING TABLE.

(Application filed May 7, 1900.)

(No Model.) 3 Sheets—Sheet 1.

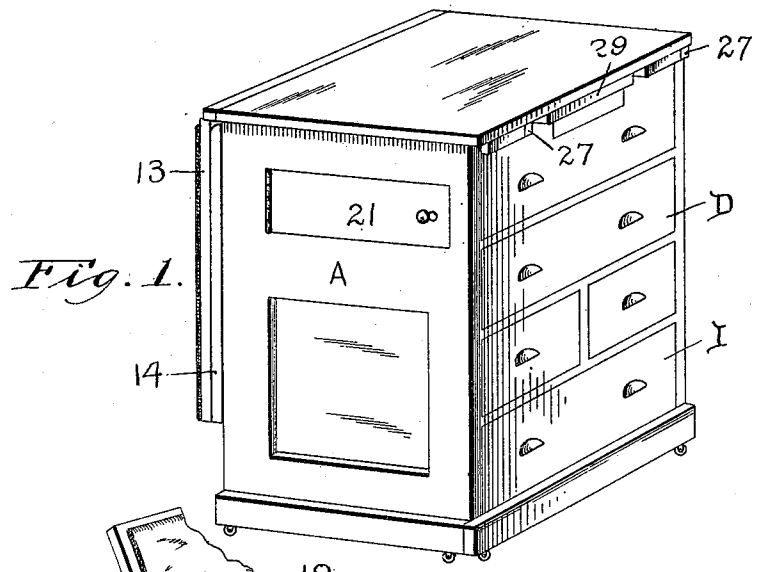


Fig. 1.

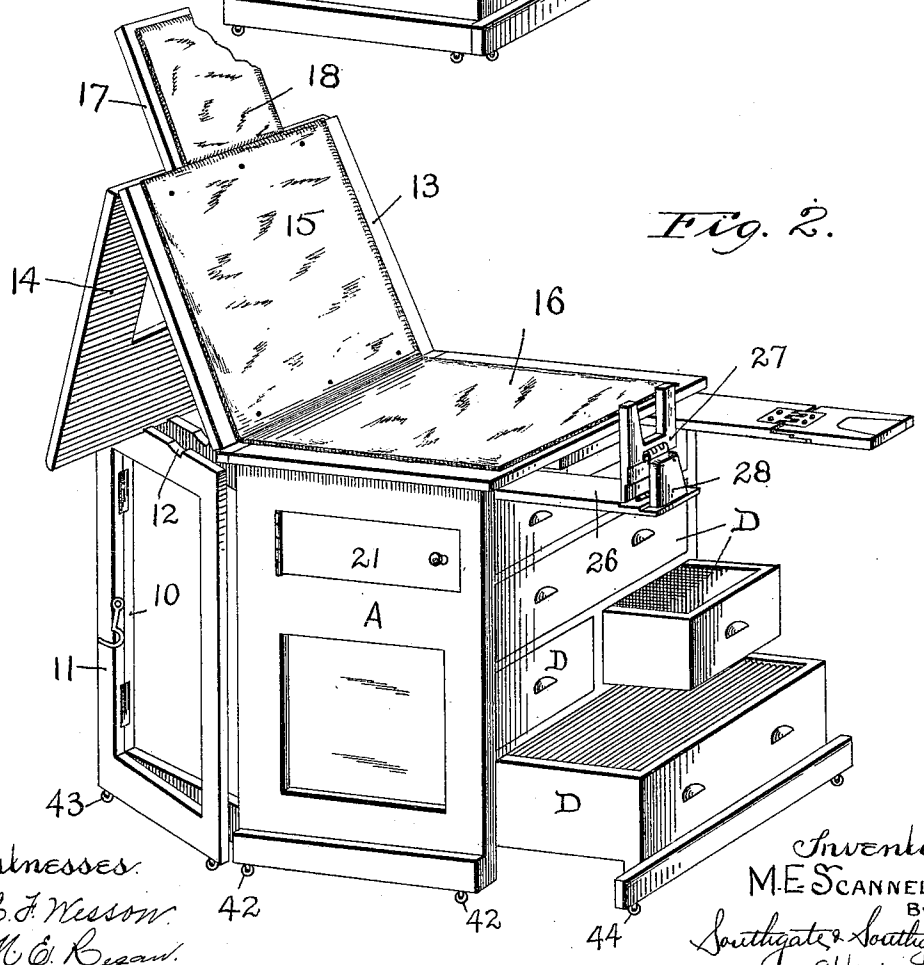


Fig. 2.

Witnesses.
C. F. Wesson.
M. C. Regan.

Inventor.
M. E. Scannell.
By
Southgate & Southgate
Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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(No Model.) 3 Sheets—Sheet 2.

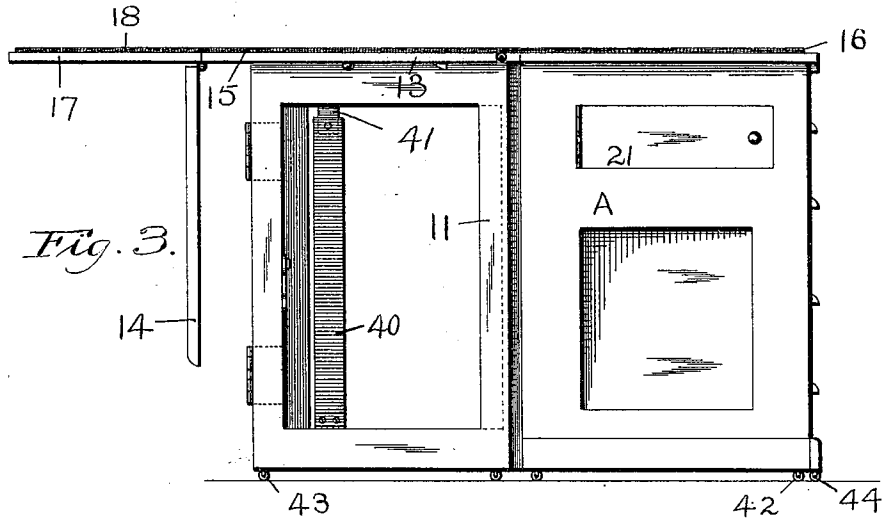


Fig. 3.

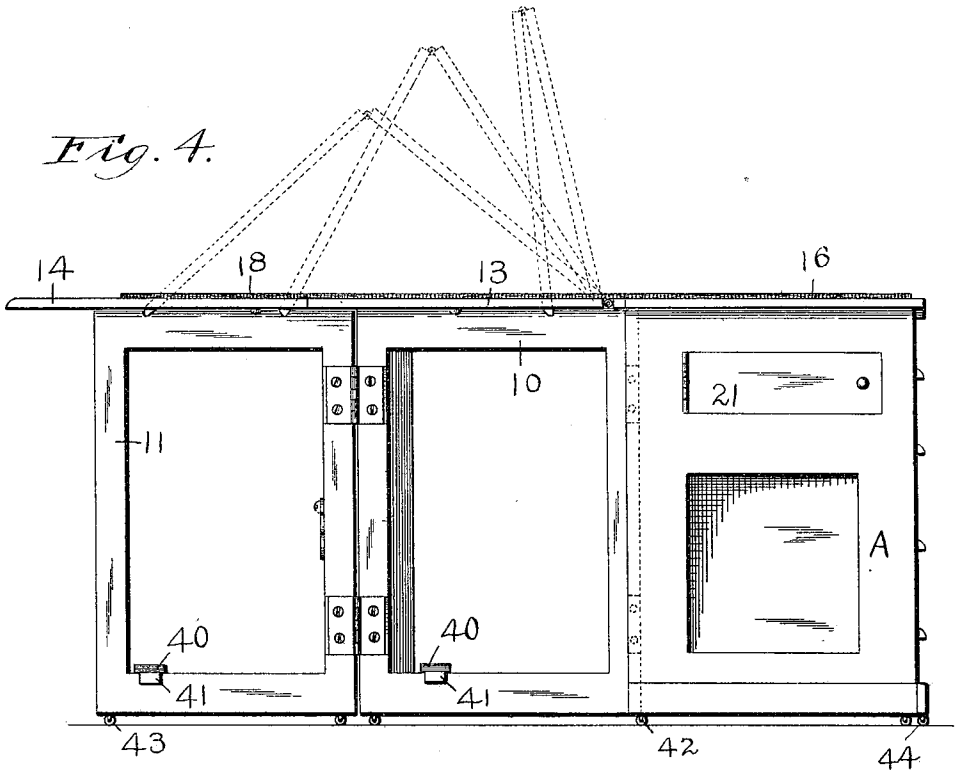


Fig. 4.

Witnesses.
C. F. Wesson.
M. E. Regan

Inventor.
M. E. Scannell
By Southgate & Southgate
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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(No Model.) 3 Sheets—Sheet 3.

Fig. 5.

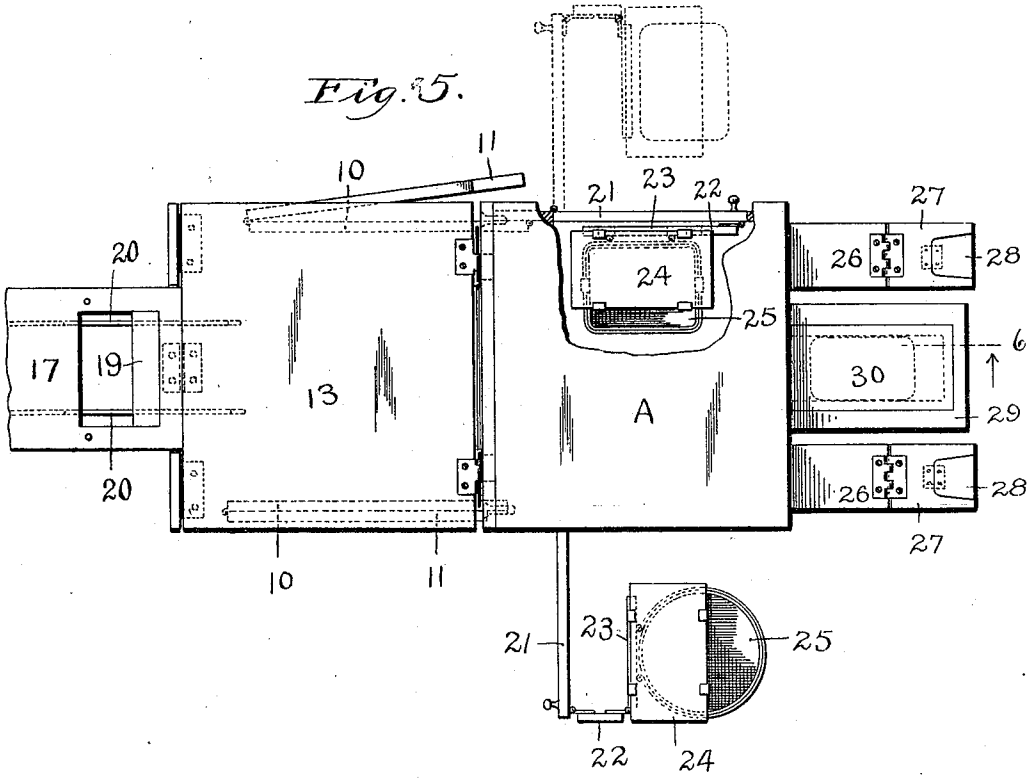
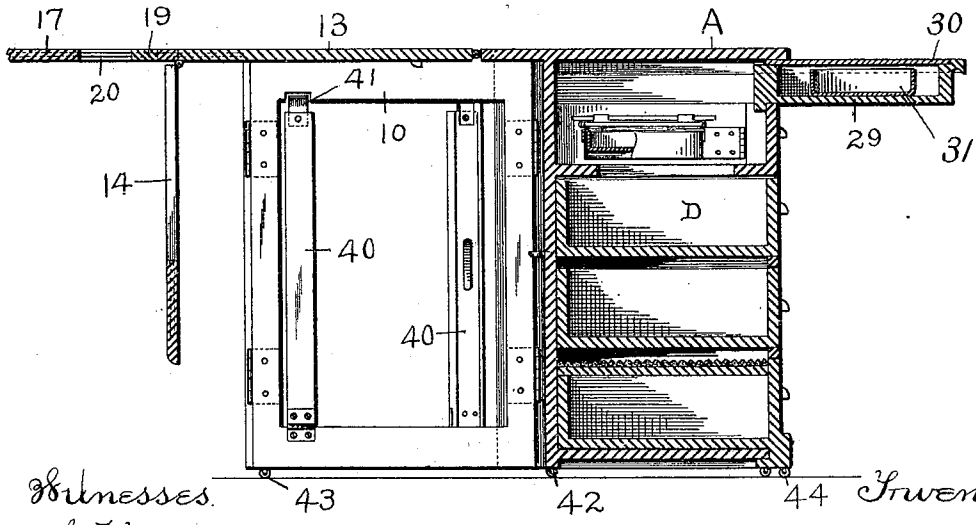


Fig. 6.



Witnesses.
C. F. Wesson
M. E. Regan.

Inventor.
M. E. Scannell.
By Southgate & Southgate
Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

MICHAEL E. SCANNELL, OF WORCESTER, MASSACHUSETTS.

OPERATING-TABLE.

SPECIFICATION forming part of Letters Patent No. 658,999, dated October 2, 1900.

Application filed May 7, 1900. Serial No. 15,684. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL E. SCANNELL, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Operating-Table, of which the following is a specification.

A surgical operating-table constructed according to this invention has been especially designed to provide a strong, compact, and inexpensive extension operating-table which in its normal folded or closed condition will present the appearance of an ordinary case of drawers and which may be adjusted to support a patient in various positions and which is provided with attachments which may be swung or drawn out to carry instrument-trays, water vessels, or other utensils, and which is also provided with stirrups and with a glass-covered front slide for minor surgical operations.

To secure these ends, this invention consists of the parts and combinations of parts in a surgical operating-table, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying three sheets of drawings, Figure 1 is a perspective view illustrating a surgical operating-table constructed according to this invention in its folded or closed condition. Fig. 2 is a similar view showing the table partly opened, with the back-rest adjusted to support a patient in a sitting position. Fig. 3 is a side view showing the back-rest laid down. Fig. 4 is a similar view showing the operating-table opened to its fullest extent and illustrating in dotted lines various positions of the back-rest. Fig. 5 is a plan view of the operating-table substantially in the position illustrated in Fig. 3, and Fig. 6 is a longitudinal sectional view thereof, taken on the line 6 of Fig. 5.

A surgical operating-table constructed according to this invention comprises a body portion having the appearance of an ordinary case of drawers. At the rear of the body portion are one or more supporting-gates, which normally fold back into a recess and may be swung out to different positions to support the back-rest or extension-leaf of the operating-table in different positions. The upper part of the body portion or drawer-casing is provided with a false-drawer front, and normally fitting back into this casing are swinging portions or side brackets and front slides, which form the stirrups and the glass-covered slide for minor surgery.

Referring to the drawings and in detail, A designates the body portion or casing, which is preferably formed to resemble an ordinary casing for a number of drawers. At the rear of the casing A, as shown most clearly in Fig. 6, is a pocket into which normally fold the gates or supports for supporting the back-rest or extension-leaves when the table is opened out. Two gates or supports are preferably employed, each of which gates comprises pivotally-connecting frames 10 and 11, the inner frame 10 of which is hinged to the rear of the body portion. As indicated most clearly by the dotted lines in Fig. 5, the gates or supports as thus constructed are hinged, so that the gate at one side can be swung or folded back to the extreme rear of the pocket in the casing, and the other gate may be swung or folded back in front of the first-named gate.

When the patient is to be supported in an upright or sitting position, only one of the leaves or gates needs to be opened or swung back; but when a full-length table is desired, both gates are preferably swung back and may be locked together by cross-pieces 40, which are normally vertical, as illustrated in Fig. 3, but which may be folded down, as shown in Fig. 4, so that catches 41, carried thereby, will engage the other gate or support, as shown in Fig. 4.

Hinged at the rear of the top of the body portion or casing is a back-rest or extension-leaf 13, which may be supported by a second extension-leaf or prop 14, hinged thereto, as illustrated in Fig. 2. The back-rest or extension-leaf 13 may be upholstered or provided with a cushion 15, extending from which is an extension-flap or seat-cushion 16 for covering the top of the body portion or main casing, as shown in Fig. 2. The cushions or upholstery which may be employed on the back-support or extension-leaf 13 are omitted in the third sheet of drawings for the sake of clearness.

Hinged to the center part of the back-support or leaf 13 is a headpiece or head-rest 17, which is preferably provided with a cushion or upholstery as 18, and provided with a fastening device for securing said part 17 rigidly to the back-support 13 or extension-leaf 14, as desired. The fastening device which I employ for this purpose is most clearly illustrated in Fig. 5. As shown in this figure, the head-support 17 is provided with two fastening-pins 20, carried by an operating-piece 19. The fastening-pins 20 are longitudinally movable to engage sockets or recesses in the back-rest 13 and extension-leaf 14, so that by moving the piece 19 the head-rest may be locked or secured either to the back-rest 13 or leaf 14, as desired.

The upper edges of the supporting-gates which fold into the recess at the rear of the body portion or casing are provided with notches or recesses 12 to support the back-rest at different inclinations, the various positions to which these parts may be set being most clearly illustrated in Fig. 4.

A surgical operating-table in order to possess the required strength and steadiness should be of a solid strong construction, and in order that the same may be readily moved about the body portion A is mounted on casters 42, while the swinging supporting-gates are also provided with casters, as 43.

To provide a step for the operating-table the lower drawer D may be provided with casters 44, as illustrated in Fig. 2, and with a rubber-topped cover, so that the drawer will form a step when pulled out, as illustrated in Fig. 2.

As shown most clearly in Figs. 5 and 6, the upper part of the body portion or casing forms a compartment in which swinging side brackets and front slides are normally contained, the front of this compartment being closed by a false drawer-front, as shown in Figs. 1 and 2. The swinging side brackets, which are normally folded back out of the way in this manner, preferably consist of a hinged door or cover 21, carrying a folding section 22, supporting a bracket 23, which bracket 23 may carry a tray or water vessel 25, over which may be hinged a glass plate 24, the plate 24 and tray or dish 25 being preferably removable, so that the same may be taken off and cleansed or disinfected as desired.

For supporting one or both feet of a patient when desired an operating-table constructed according to this invention is preferably provided with sliding foot-rests or stirrups, the construction of which is most clearly illustrated in Figs. 2 and 5. As shown in these figures each of these stirrups preferably comprises a board or slide 26, having a hinged fork or stirrup 27. The pieces 26 and 27 are rabbeted, so that when the stirrup 27 is turned down it will be held in line with the board 26. The stirrup or fork 27 may be held or supported in its turned-up position by the center piece 28, hinged thereto, as shown in Fig. 2. A slide or shallow drawer is also preferably provided in the upper part of the casing of my surgical operating-table, as most clearly illustrated in Figs. 5 and 6. As shown in these figures, the slide or shallow drawer 29 may be pulled out from the middle of the upper portion of the operating-table and is preferably provided with a glass cover 30, covering the shallow recess, which may contain a tray or shallow vessel 31 for holding smaller surgical instruments. This glass-covered slide is especially useful for minor surgical operations—for example, in dressing a hand or for furnishing a hand-rest when desired.

I am aware that many changes may be made in the relative proportions of parts and details of construction of my surgical operating-table and that certain features of my invention may be omitted, if desired, or may be employed with advantage in different situations from that shown. I do not wish, therefore, to be limited to the construction I have herein shown and described; but

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. In a surgical operating-table, the combination of the body portion or drawer-casing, a support or gate hinged to fold back against the body portion, a back-rest or extension-leaf hinged to the body portion, and a second extension-leaf hinged to the back-rest to form a prop for engaging the folding gate to support the back-rest at different desired inclinations, substantially as described.

2. In a surgical operating-table, the combination of a body portion A forming a casing for drawers and having a recess at the rear thereof, two folding gates, each comprising pivotally-connecting frames 10 and 11 hinged to the body portion so as to fold back into said pocket or recess when not in use, cross-pieces for connecting said gates or supports to hold them in their folded-out or extended position, a back-rest or extension-leaf hinged to the body portion, and a second extension-leaf hinged to the back-rest to form a prop for supporting the same at different inclinations as desired, substantially as described.

3. In a surgical operating-table, the combination of the body portion, an extension-leaf or back-rest hinged thereto, a second extension-leaf hinged to the back-rest and forming a prop for supporting the same at different inclinations, a head-rest, and means for securing the head-rest rigidly to the back-rest or second extension-leaf as desired, substantially as described.

4. In a surgical operating-table, the combination of the extension-leaf or back-rest 13, a second extension-leaf 14 hinged thereto so as to form a prop therefor, a head-rest 17 hinged to the back-rest 13, and means for connecting the head-rest either to the part 13 or prop 14 as desired, comprising pins 20, carried by a cross-piece 19 and mounted so as to

be longitudinally movable to engage recesses in the back-rest 13 or leaf 14 as desired, substantially as described.

5. In a surgical operating-table, the combination of a body portion or main casing, and a stirrup arranged to be pushed back therein comprising a board or slide 26, a stirrup-piece or yoke 27 hinged thereto, said parts being rabbeted so that when the yoke-piece 27 is folded down it will be supported in line with the slide 26, and a prop 28 hinged to the yoke-piece 27 so as to form a center part therefor, substantially as described.

6. In a surgical operating-table, the combination of a body portion or casing for drawers having a space above the drawers, and a side bracket arranged to fold back into said space, and comprising a hinged cover or door 21, a piece 22 hinged to the free end of the door, a bracket 23 detachably supporting a receptacle 25, and a glass plate arranged above said receptacle, substantially as described.

7. In a surgical operating-table, the combination of a body portion or casing for drawers having a space above its top drawer, extension-leaves and supports arranged to open out the operating-table as desired, and a swinging bracket arranged to fold into the space above the top drawer, and which can be swung back alongside the table into the vicinity of the head-rest thereof, or which can be swung around to the front of said table, said swinging bracket comprising a door 21, a piece 22 hinged to the free end of the door, and a bracket 23 for supporting a receptacle 25 and glass plate 24, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MICHAEL E. SCANNELL.

Witnesses:
PHILIP W. SOUTHGATE,
M. E. REGAN.