No. 673,675. Patented May 7, 1901.

W. F. BERNSTEIN.

OPERATING TABLE.

(Application filed Nov. 9, 1899.)

(No Model.)

Fig. 1.

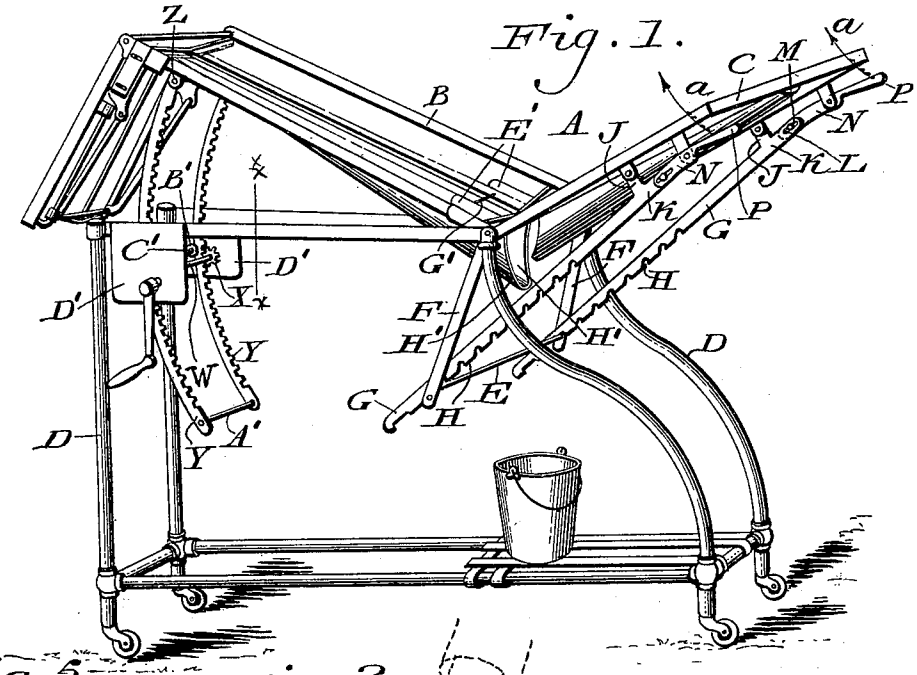


Fig. 5.

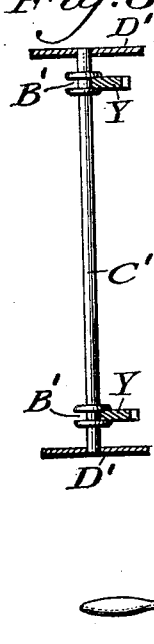


Fig. 2.

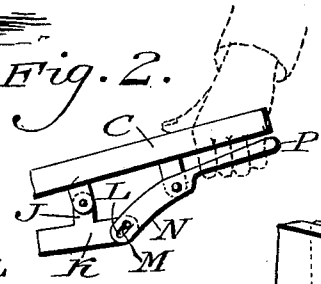


Fig. 3.

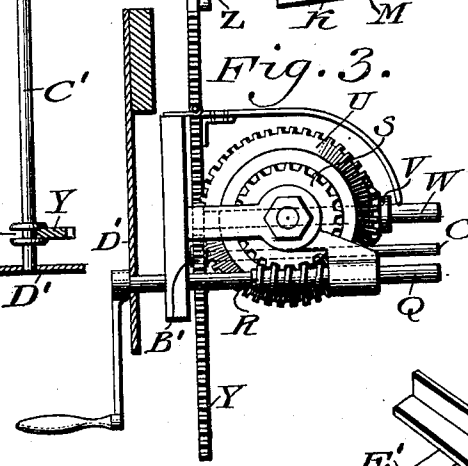


Fig. 4.

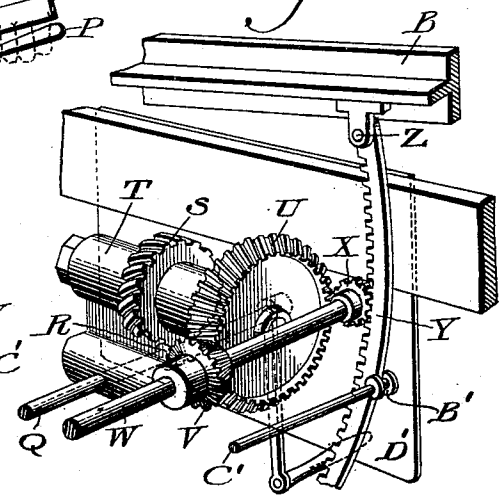
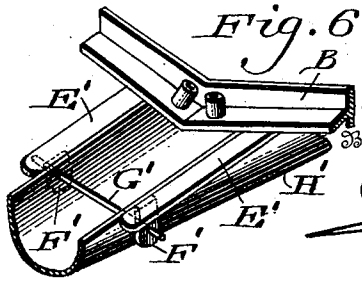


Fig. 6.



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UNITED STATES PATENT OFFICE.

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OPERATING-TABLE.

SPECIFICATION forming part of Letters Patent No. 673,675, dated May 7, 1901.

Application filed November 9, 1899. Serial No. 736,319. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BERNSTEIN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Operating-Tables, which improvement is fully set forth in the following specification and accompanying drawings

My invention relates to an improvement in operating-tables; and it consists of novel features, as will be hereinafter described, and pointed out in the claims.

It also consists of novel means for guiding the racks on the last-mentioned section, whereby a uniform and regular movement is imparted thereto.

It further consists of novel details of construction, all as will be hereinafter described, and particularly pointed out in the claims.

Figure 1 represents a perspective view of an operating-table embodying my invention. Fig. 2 represents a perspective end view of a portion of Fig. 1, showing the manner of operating the ratchet-arms employed. Fig. 3 represents, on an enlarged scale, a section on line *x x*, Fig. 1. Fig. 4 represents a perspective view of Fig. 1 viewed from another direction. Fig. 5 represents a sectional view showing the racks or segments employed and the guiding devices therefor. Fig. 6 represents, on an enlarged scale, a perspective view of a portion of one of the movable sections, showing also the trough applicable thereto and the means for supporting said trough.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates an operating-table, which consists of the sections B and C, which are pivotally secured to each other and mounted upon the framework D in any suitable manner.

E designates a transversely-extending rod, which is attached to the rigid arms F, said rod being adapted to be engaged by the rack or ratchet-arms G, which are provided with teeth H and ears J, which latter are pivotally attached to the section C, said arms each having the extension K, which has a slot L therein, which is engaged by a pin M, carried on the hand-lever N, which is pivotally supported on said section C. It will thus be seen that when it is desired to adjust the inclination of the section C the same can be effected by the operator grasping the handles P of the lever N and rocking them in the direction of the arrows *a*, whereby the rack-arms H can be readily moved toward or away from the rod E and the adjustment of the section C readily effected.

In the adjustment of the section B it is desirable that the same should be effected noiselessly and by a uniform or regular movement and remain at any point without the use of a pawl. In carrying out this part of my invention the shaft Q, which is mounted in suitable bearings and rotated by its handle, has the worm R, which meshes with the wheel S, mounted on the shaft T, which latter carries also the bevel-gear U, which meshes with the bevel-pinion V, mounted on the counter-shaft W, which latter shaft carries the pinions X, which mesh with the segmental racks Y, the upper portions of the latter being pivotally attached at Z. It will be seen that when the shaft Q is rotated the worm R, worm-wheel S, the shaft T, the wheel U, the pinion V, and the counter-shaft W operate the pinions X, which are on the opposite ends of said counter-shaft W, and each engaging with one of the depending segmental racks Y, so that both racks may be simultaneously operated and the section B sustained firmly on both sides and held steady in its motions and while at rest. The racks or segments Y are braced at their lower portions by the rod A′ and are guided in the ways B′, which are carried by the additional shaft or rod C′, which is mounted in the plates D′, the latter also serving as a bearing for the shaft Q

E′ designates arms attached to a suitable portion of the section B and having ears F′ depending therefrom, through which the rod G′ passes, said rod also passing through the trough H′, whereby the latter is supported and adapted to discharge blood, &c., into the receptacle below.

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

1. In an operating-table, a movable section, ratchet-arms pivotally mounted near one end upon said section and having portions beyond their pivots extending in the same general di-

rection as said arms, levers pivotally mounted on said sections beyond the pivots of the arms with their handle portions substantially parallel with the side bars of the section, and slot-and-pin connections between said levers and extensions and disposed between the pivots of the arms and levers.

2. In an operating-table, a movable section, ratchet-arms having near one end ears pivotally connected to said section and extensions beyond said ears, lugs depending from said section, levers pivotally mounted on said lugs with a pin-and-slot connection between the extensions and levers, rigid arms depending from the other end of the said section, and a transversely-extending rod held in said depending arms to be engaged by the ratchet-arms.

3. In an operating-table, a section having longitudinally-extending strips attached thereto, ears depending from said strips, a trough extending longitudinally of said section, and supporting devices common to said ears and trough whereby the latter is sustained in position.

4. In an operating-table, a section having longitudinally-extending strips, ears depending from said strips, a trough extending longitudinally of said section, and a rod passing through said ears and trough whereby the latter is supported.

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