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E. B. DILL & S. F. DU BOIS.

SURGICAL TABLE.

APPLICATION FILED SEPT. 2, 1904.

Fig. 1.

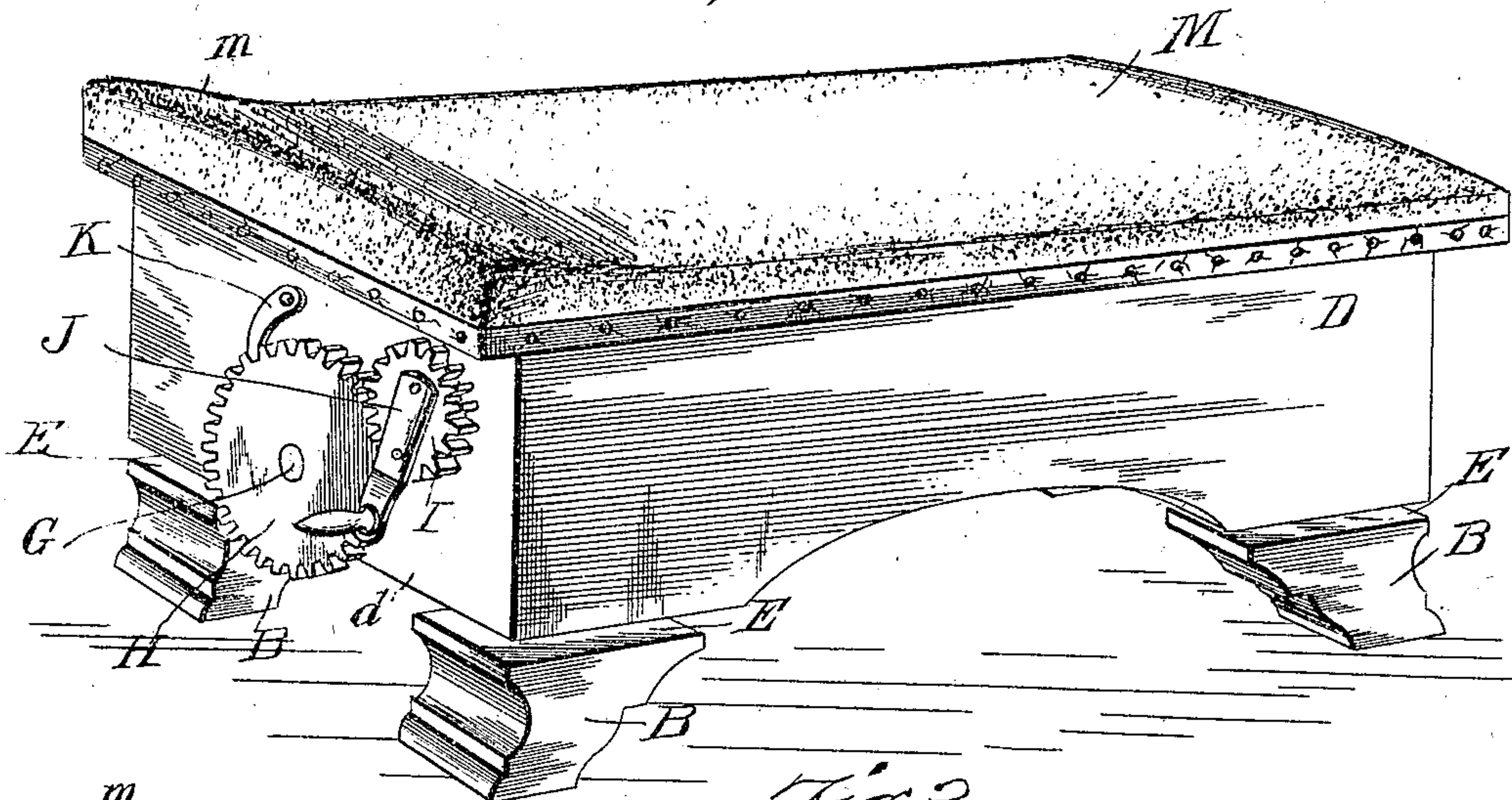


Fig. 2.

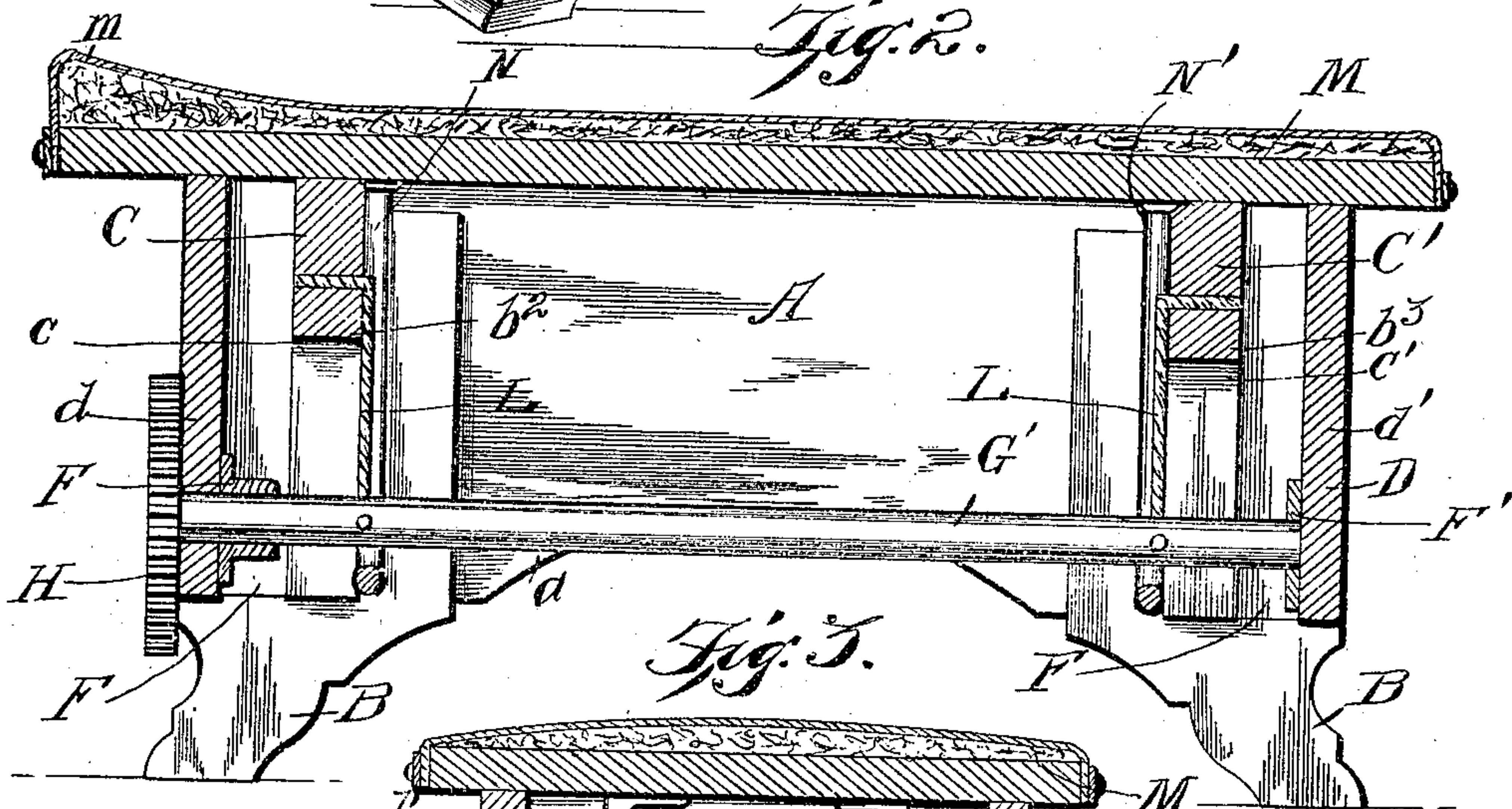
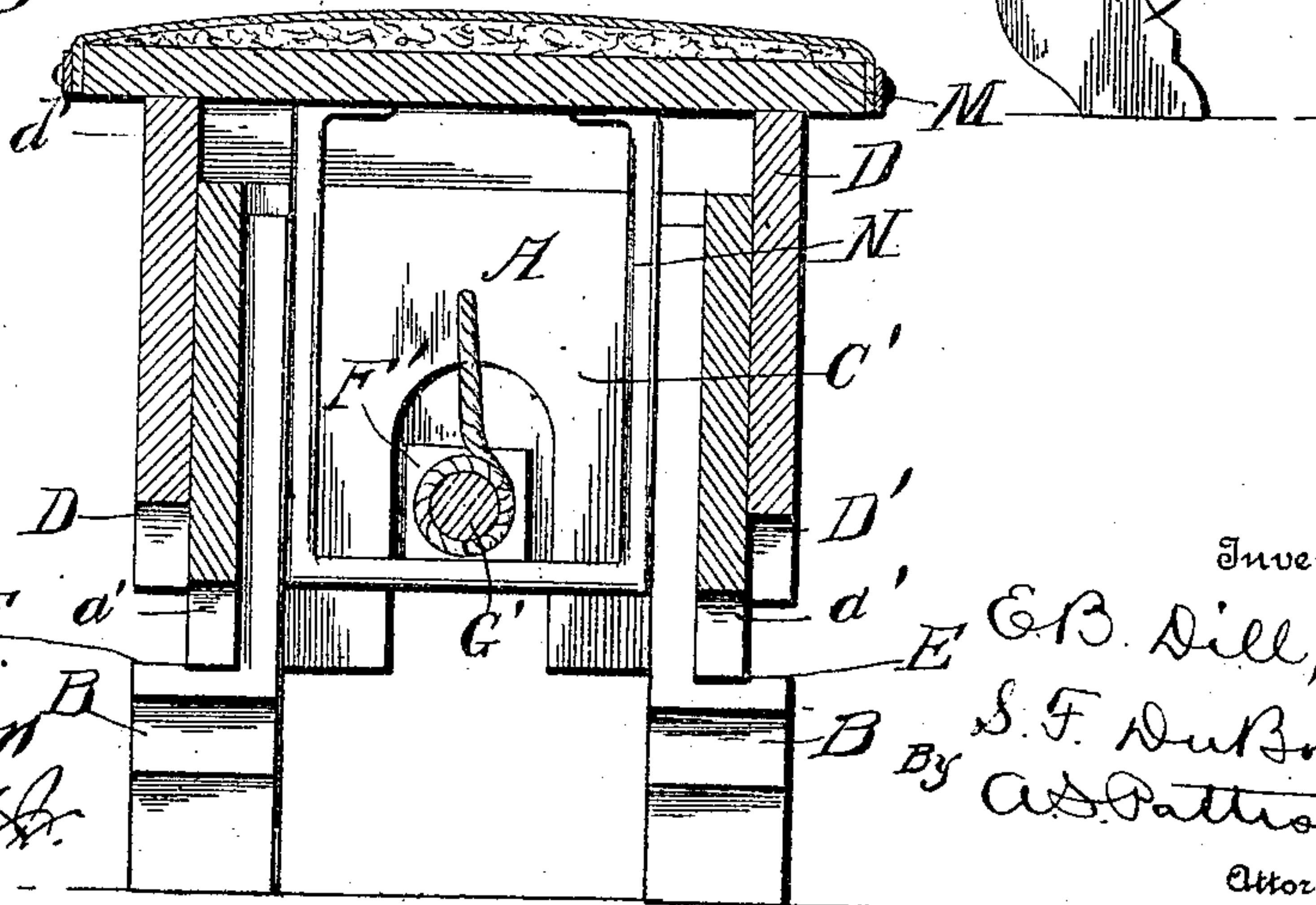


Fig. 5.



Witnesses

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EMMA B. DILL AND SOLOMON F. DU BOIS, OF CHILLICOTHE, OHIO.

SURGICAL TABLE.

No. 810,848.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed September 2, 1904. Serial No. 223,156.

To all whom it may concern:

Be it known that we, EMMA B. DILL and SOLOMON F. DU BOIS, citizens of the United States, residing at Chillicothe, in the county

of Ross and State of Ohio, have invented certain new and useful Improvements in Surgical Tables, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to improvements in operating-tables.

The object of our invention is to provide an operating table or couch which is more readily raised and which forms a solid framework when either in its raised or lowered position.

Another object of our invention is to provide an operating - crank and mechanism which is carried by the vertically-movable portion of the table, and thus making it much easier to raise the table as the raising means is raised, and thus preventing stooping in doing the same.

In the accompanying drawings, Figure 1 is a perspective view of my improved table in its raised position. Fig. 2 is a longitudinal vertical sectional view. Fig. 3 is a transverse vertical sectional view of Fig. 1.

Referring now to the drawings, A represents a base which, as shown, is made of a box form and provided with feet B, which allow a space around the lower edge thereof for the feet of the person operating. The said base, as shown, is of an elongated form having the arched cut-away portions a' at its sides. The ends C and C' of the said base are provided with vertically oppositely arranged cut-away portions c and c' , which extend from the bottom up adjacent the upper end, but have a connecting - web b^2 and b^3 , which hold the frame together. The upper end of said base is open for making the table or couch lighter and also for allowing of guides to enter the same, as hereinafter more fully described. Surrounding the said base is the table D, which is also made of a box form, which corresponds with the base A and is provided with the arched cut-away portion D', corresponding with the arched cut-away portions a' ; but the said table is provided with the solid ends d and d' . The said feet B extend out beyond the edge of the base A, forming ledges E, upon which the lower edges of the box portion of the table proper rests and is supported, thus relieving the raising mechanism of the strain or weight of the table

when it is lowered and is not being used. The box portion of the table, as shown, slides up and down on the base, and the same snugly fits the base, and any lateral movement of the table is prevented.

Rotatably mounted in bearings F and F', carried by the inner sides of the ends d and d' of the table proper, is a shaft G, which extends through the vertically-cut-away portions c and c' , and thus the shaft is adapted to move up and down in respect to the base. The said shaft at one end extends through the end d of the table and is provided with the large gear-wheel H on the outside of the table. Meshing with said large gear-wheel H is a smaller gear I, which has a shaft which is rotatably mounted in the end d' of the table, and said gear I carries a crank J, by means of which the same is rotated, thus rotating the larger gear carried by the shaft. The end of the table is provided with a pivoted pawl K, which is adapted to drop into the teeth of the large gear H, and thus the shaft is held against rotation. Secured to the shaft adjacent each end is a cable L, which has its upper ends secured to the base A above the vertical slots, and thus it is readily seen that by rotating the shaft the cables are wound upon the same and the table proper is caused to travel upward, and the operating or raising mechanism is also caused to travel upward, thus making it much easier to raise or lower the table.

The top M of the table extends a short distance beyond the frame portion, thus serving as a gripping means by which the person on the table may hold on or move about. The said top M is preferably covered with a waterproof material and formed with a head m , thus forming more of a couch. The under side of the top M adjacent each end is provided with a downwardly - extending U-shaped loop N and N', which are made of metal and snugly fit the inside of the ends of the base A, thus forming an additional guide for the table to be steadied in its raising and lowering operation. The said loops N and N' pass around the shaft G, and said loops form stops by means of the shaft for limiting the upward movement of the table.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. An operating-table, comprising a base having vertically-arranged slots in its ends, a

table-frame telescoping the base, a shaft mounted in the ends of said frame and passing through said slots, cables connected to the shaft and to the base above the slots, and
5 guides carried by the table-frame and extending down within the base, and around the shaft.

2. An operating-table, comprising a base having vertically-arranged slots in its ends, a
10 table-frame telescoping the base, a shaft rotatably mounted in the table-frame and passing through the slots in the base, means carried by the outside of said frame for rotating the shaft, cables connecting the shaft and the
15 base above the slots, and U-shaped guides carried by the frame and passing down within the base and around the shaft.

3. An operating-table, comprising a base, formed of a box-like form mounted upon
20 feet, said feet extending beyond the same, to form supporting-ledges, vertically-arranged slots in the ends of the base and extending from the lower edge thereof adjacent the top, a table-frame composed of a box-like form
25 telescoping the base and adapted to rest upon the ledges formed by the feet, a table carried by the upper end of said frame, a shaft rotatably mounted in the ends of said frame and passing through the slots in the base, a gear
30 carried by the shaft on the outside of said frame, a pawl for holding said gear, means for rotating said gear, cables connecting said shaft and the base above the slots, and downwardly-extending U-shaped guides carried
35 by the under side of the table and fitting within the base.

4. An operating-table, comprising a base having vertically-arranged slots in its ends, a
40 table-frame telescoping the base, a shaft mounted in the ends of said frame and passing through said slots, cables connected to

the shaft and to the base above the slots, and guides carried by the tables within the base.

5. An operating-table comprising a base, a
45 table-frame telescoping the base, a shaft mounted in the frame, cables carried by the shaft and secured to the base above the shaft, and guides carried by the table-frame and extending within the base and extending
50 around the shaft.

6. An operating-table, comprising a base, formed of a box-like form mounted upon
feet, said feet extending beyond the same to form supporting-ledges, vertically-arranged
55 slots in the ends of the base and extending from the lower edge thereof adjacent the top, a table-frame composed of a box-like form telescoping the base and adapted to rest upon the ledges formed by the feet, a table carried
60 by the upper end of said frame, a shaft having one end rotatably mounted inside of one end of said frame and the opposite end passing through the opposite end of the frame and within the slots in the base, a gear carried by the shaft on the outside of said frame,
65 a pawl for holding said gear against rotation, a second smaller gear rotatably mounted on the side of the table-frame and meshing with the first gear, a crank for driving said second gear, cables connected to the shaft and hav-
70 ing their upper ends connected to the base above the slots, and downwardly-extending U-shaped guides carried by the under side of the table and fitting within the base.

In testimony whereof we affix our signatures in presence of two witnesses. 75

EMMA B. DILL.
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Witnesses:

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