

D. H. Priest,

Dressing Leather,

Nº 50,079.

Patented Sep. 19, 1865.

Fig. 4.

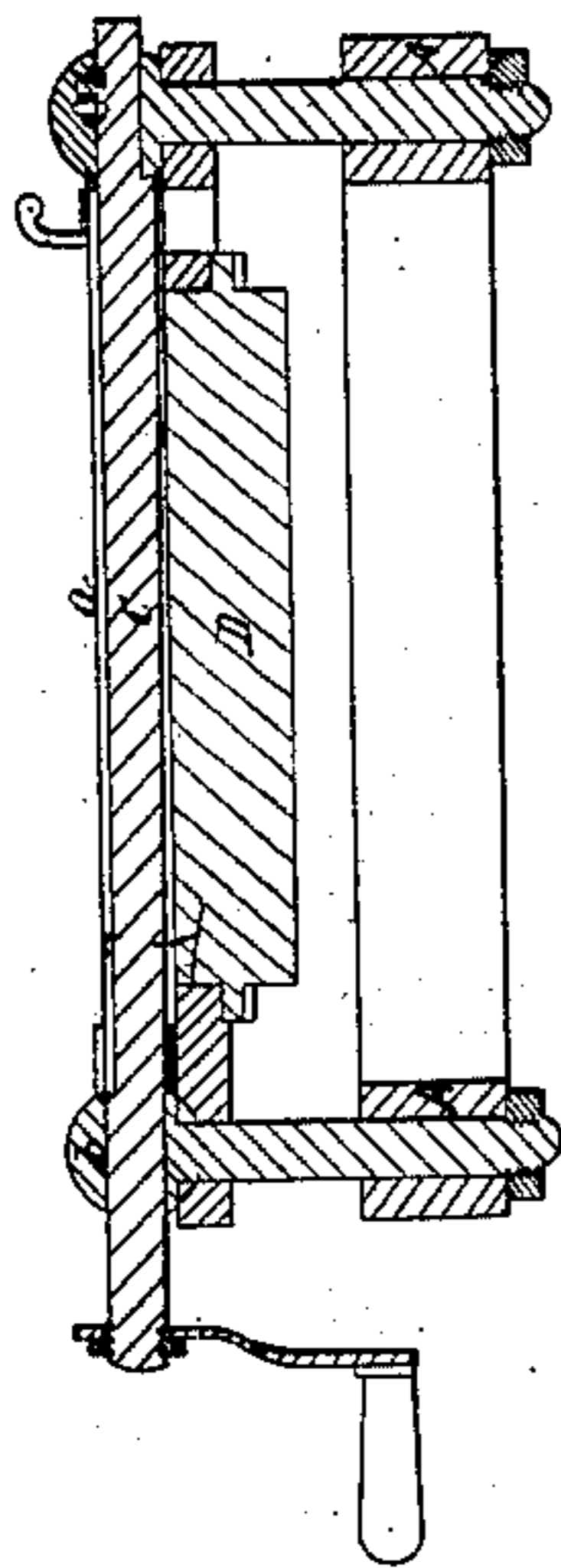


Fig. 3.

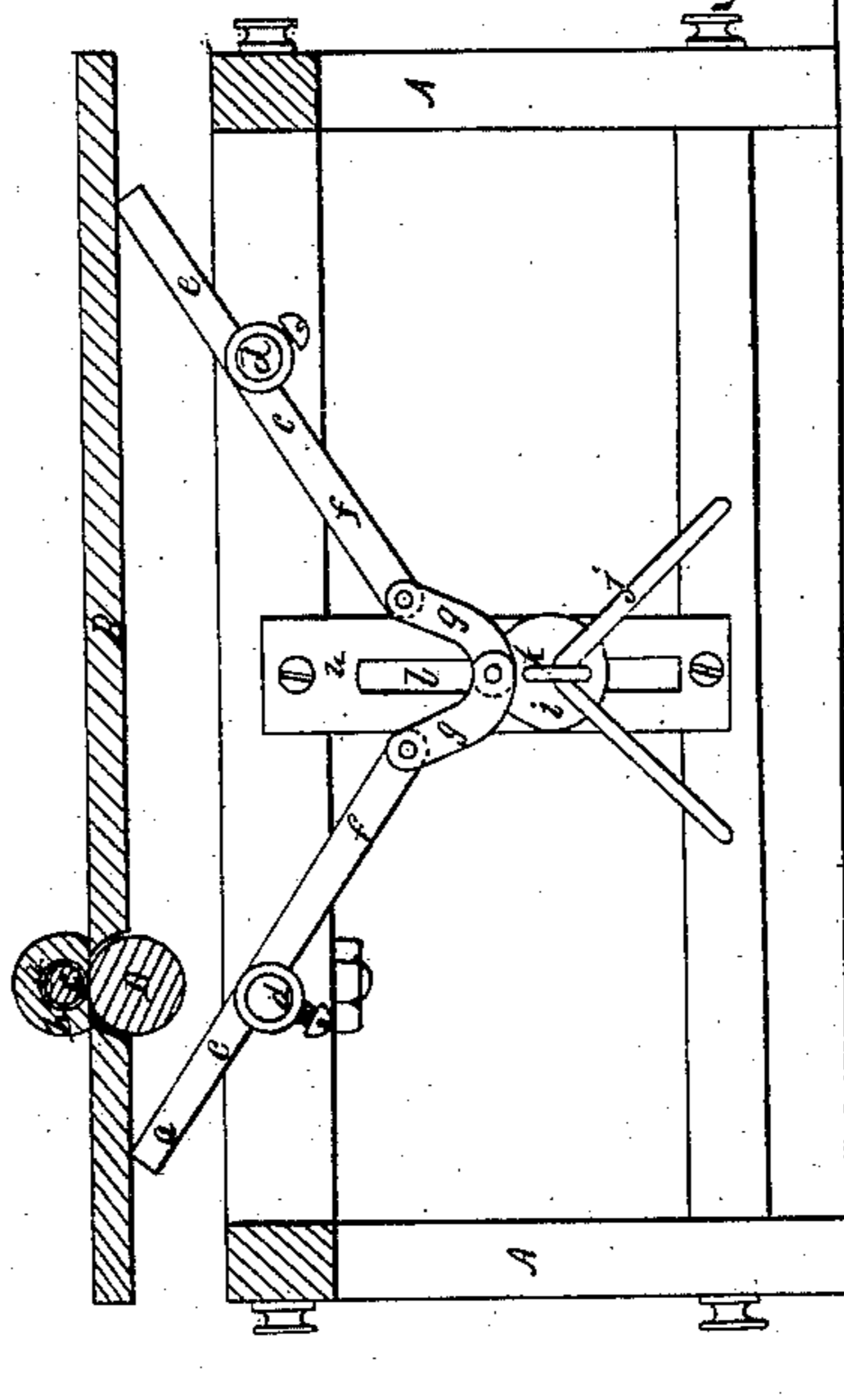


Fig. 1.

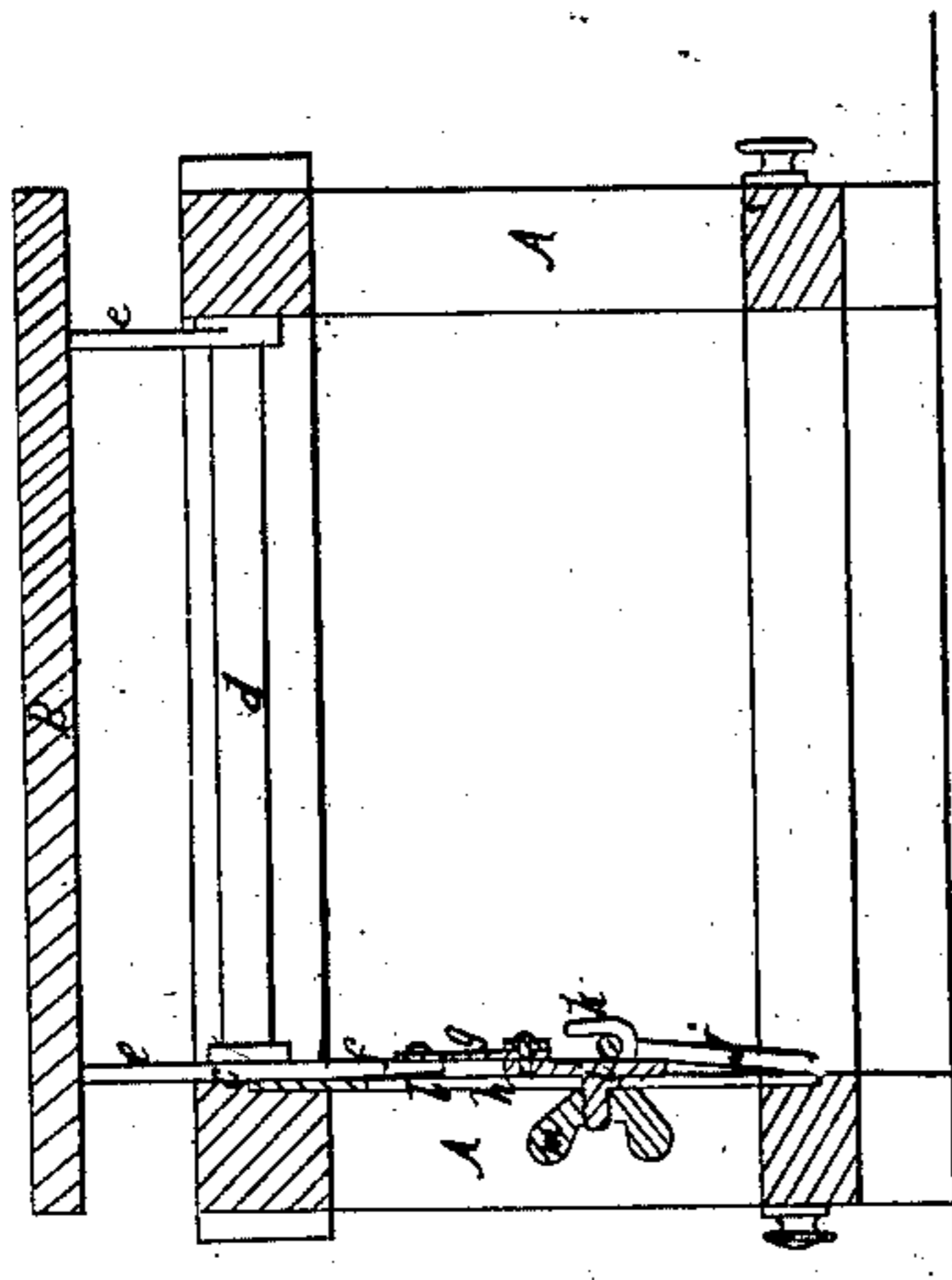
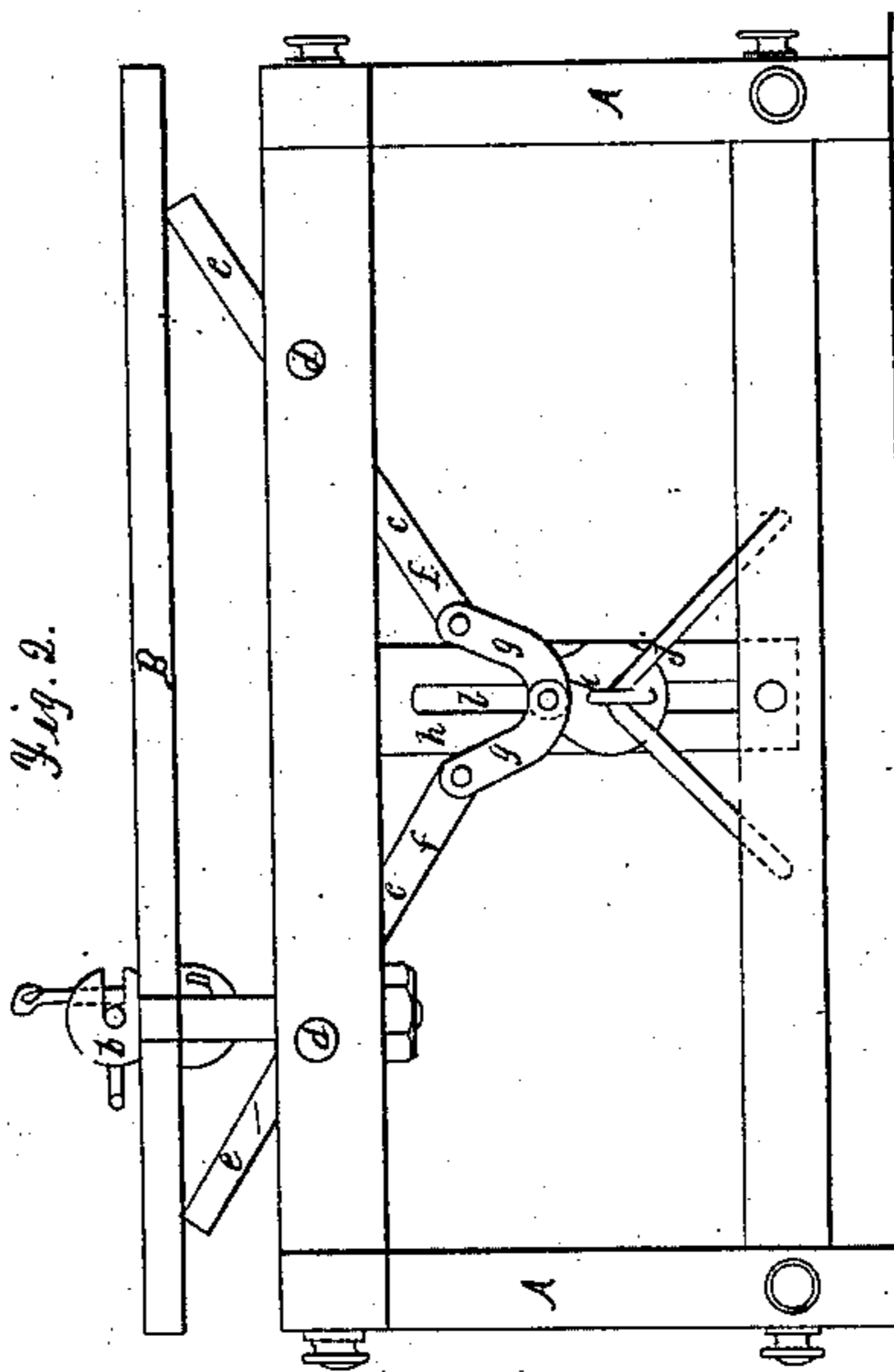


Fig. 2.



Witnesses:
J. L. Newton
R. L. Ketch

Inventor:
David H. Priest

UNITED STATES PATENT OFFICE.

DAVID H. PRIEST, OF WATERTOWN, ASSIGNOR TO HIMSELF AND B. S. HARRINGTON, OF BOSTON, MASSACHUSETTS.

IMPROVED LEATHER-ROLLER.

Specification forming part of Letters Patent No. 50,079, dated September 19, 1865.

To all whom it may concern:

Be it known that I, DAVID H. PRIEST, of Watertown, in the county of Middlesex and State of Massachusetts, have invented a new and useful Machine for Rolling Hides of Leather, called the "American Leather-Roller;" and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon, making a part of this specification, of which—

Figure 1 is a transverse section through toggles of the machine. Fig. 2 is a side view of the same. Fig. 3 is a longitudinal section of the same. Fig. 4 is a section of the two rollers and the table.

A represents the frame of the machine; B, the movable or self-adjusting table; C, the leather roller or drum; *a*, its clamp-bar; *b*, its bearings; D, the lower feed-roller; *c c*, rocker-levers; *e e*, their short arms; *f f*, their long arms; *d d*, their shafts; *g g*, their toggles; *h*, the guide-plate; *l*, its slot; *i*, its slider; *j*, the spring; *k*, the eye or hook; *m*, the thumb-screw of the guide-plate.

Now, in order that others may better understand the nature and use of my invention and be enabled to construct the same, I will proceed to explain it.

It is well known that in rolling together hides for transportation that have just been tanned, it requires several men to work to advantage, that the work itself is laborious, that in the ordinary way the rolls cannot be made compact, and that necessarily, in thus packing, large holes are left in the middle of the rolls, for which the merchant has to pay the carrier in transportation or trucking as much as for the space occupied by the solid leather, so that packing becomes a matter of no little moment to the merchant as well as the carrier.

Now, in order that hides may be packed more easily, occupy less space, with less likelihood of drying, and in every way be better for transportation, I have invented my machine, and its mode of use I will now explain.

Referring to each of the figures in the accompanying drawings, a movable or self-adjusting table will be perceived, (marked B.) Now, this table rests on four levers, the short

arms of which are marked *e*, respectively, as seen in Figs. 1, 2, and 3, and the long arms *c* on one side of the table connected with the toggles *g g*. These toggles are riveted to or fastened to the slide *i*, which plays in the slot *l*, and is adjusted by the thumb-screw *m*. Through the eye or hook *k* in this slide passes the spring *j*, which is made of rubber or any suitable elastic material, the ends of which are fastened in the manner seen in Figs. 2 and 3, or in any convenient manner. This table is also secured in its place by the bearings *b*, which support the leather-roller, as seen in Figs. 2 and 4, it being cut into sufficiently to admit the same; and the bearings are secured by the screw and nut on the under side of the frame. There is also let into this table, in a line with the leather roller or drum, another roller, D, called the "feed-roller," as seen in Fig. 4, and this roller may be made to turn or may be stationary. The leather-roller C is supported by the bearings in the manner seen in Fig. 4, and is turned by a hand-crank. This roller also might be turned by a crank connected with gearings, by which greater power might be obtained. This drum C also has a clamp-bar, (marked *a*, seen in Fig. 4,) being a small longitudinal section of the drum, secured at one end by a fixed band and at the other by a movable band, so that the bar can be easily taken out when necessary. The shafts *d d*, the ends of which are seen in Figs. 2 and 3, also are secured in the frame, but so as to roll when the table is pressed down, and the four levers are secured to these by screws, in the manner seen in Fig. 3.

The under side of the table, where it rests upon the levers, may be protected by some metallic or other substance to prevent wearing.

Now, to work the machine, let it be put in order, as seen in Figs. 2 and 3, turn the thumb-screw so as to allow the spring to press the table, with its feed-roller, up under the drum, fasten one end of the hide under the clamp-bar, and turn the crank. When one hide is partially rolled shingle on another, pressing one end, as before, under the roller, and so on until a roll of sufficient size is obtained. The table being gradually pressed down upon the levers and held by the spring, any convenient-sized roll

may be obtained. Remove the pin seen in the bearing in Fig. 2, turn the drum on the bearing next the crank, it being movable in its position, until it passes off the side of the table, and the roll, being secured by strings, is easily drawn off the drum.

Now, I do not confine myself to the use of the clamp-bar *b*, as described above; but I may use for the same purpose the drum divided through its center as far as the bearing next the crank, and secure the hide between its parts; or the clamp-bar at one end may be securely fastened. I also claim for the same purpose I may use the same arrangement of rollers

and springs with the bearings fastened to the floor, without the table.

What I claim, and desire to secure by Letters Patent, is—

1. So applying the adjustable table as to allow it to rise and fall automatically with the various depths of skin about the roller or shaft.

2. The combination of the toggles and the levers with the adjustable bed provided with a feeding-roller and the winding roller or shaft.

DAVID H. PRIEST.

Witnesses:

J. L. NEWTON,

G. L. VESTY.