

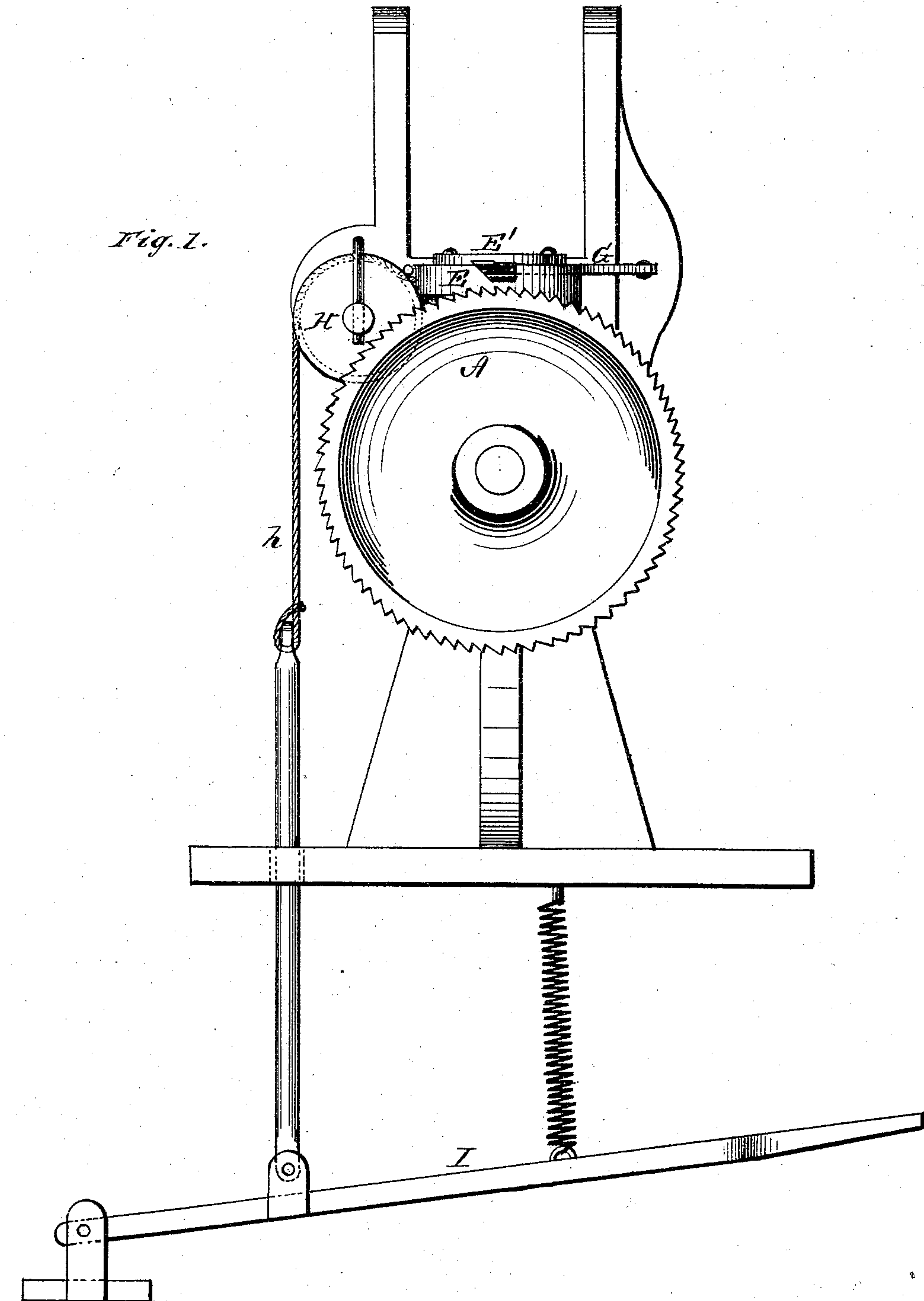
J. H. HUSSEY.

Machines for Channeling Soles.

No. 153,831.

Patented Aug. 4, 1874.

Fig. 1.



WITNESSES:

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Fig. 2.

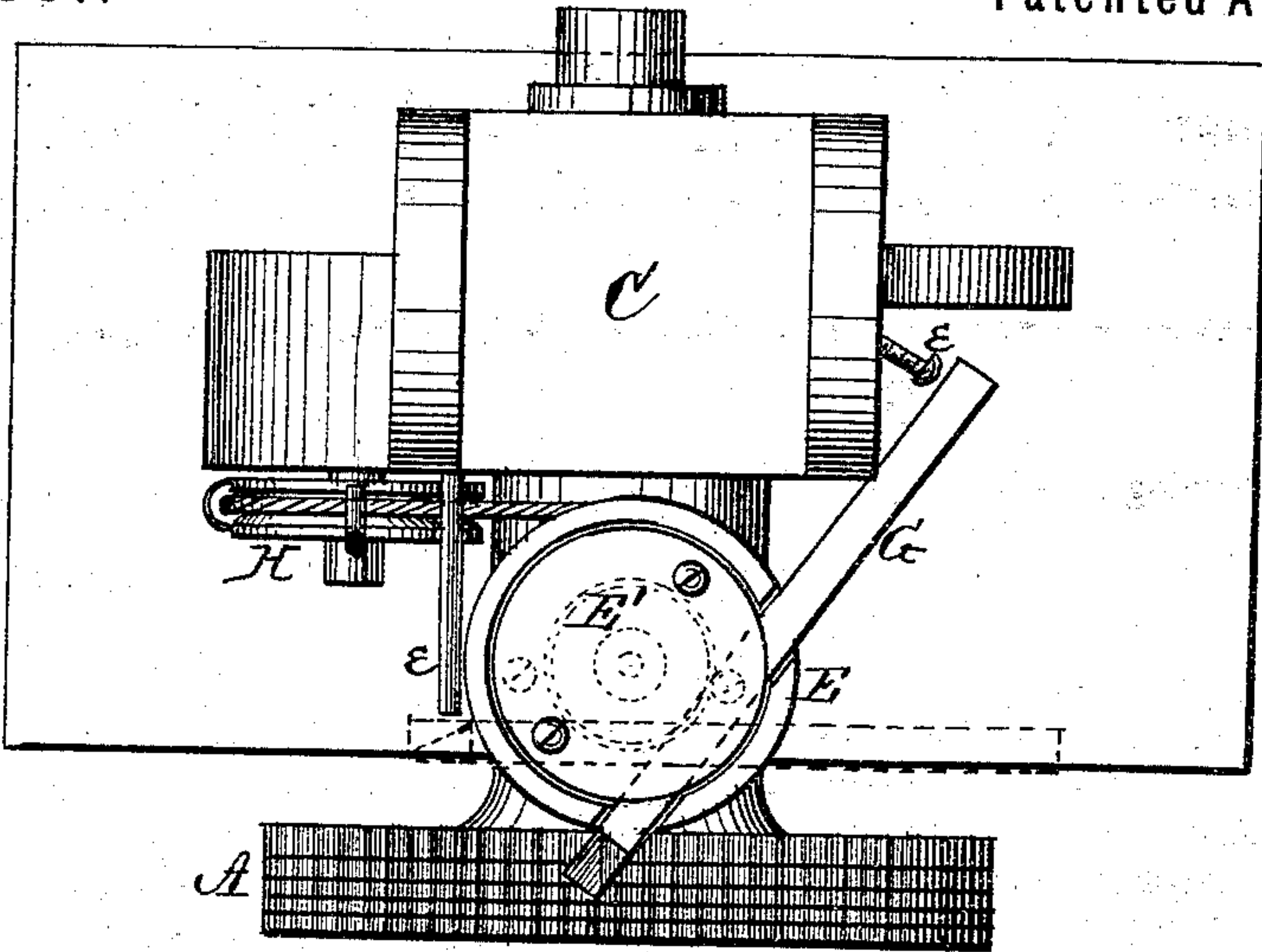


Fig. 3.

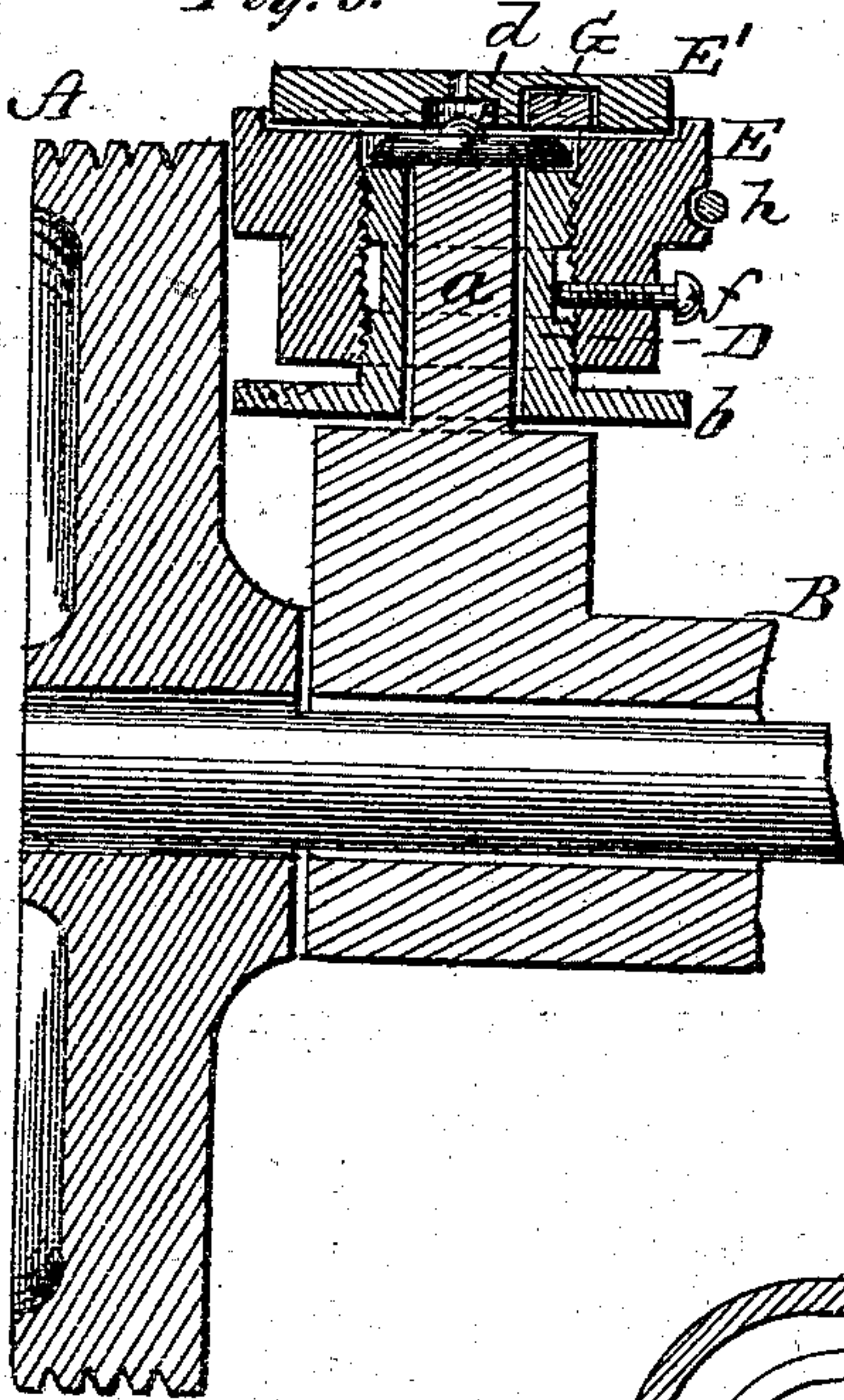


Fig. 4.

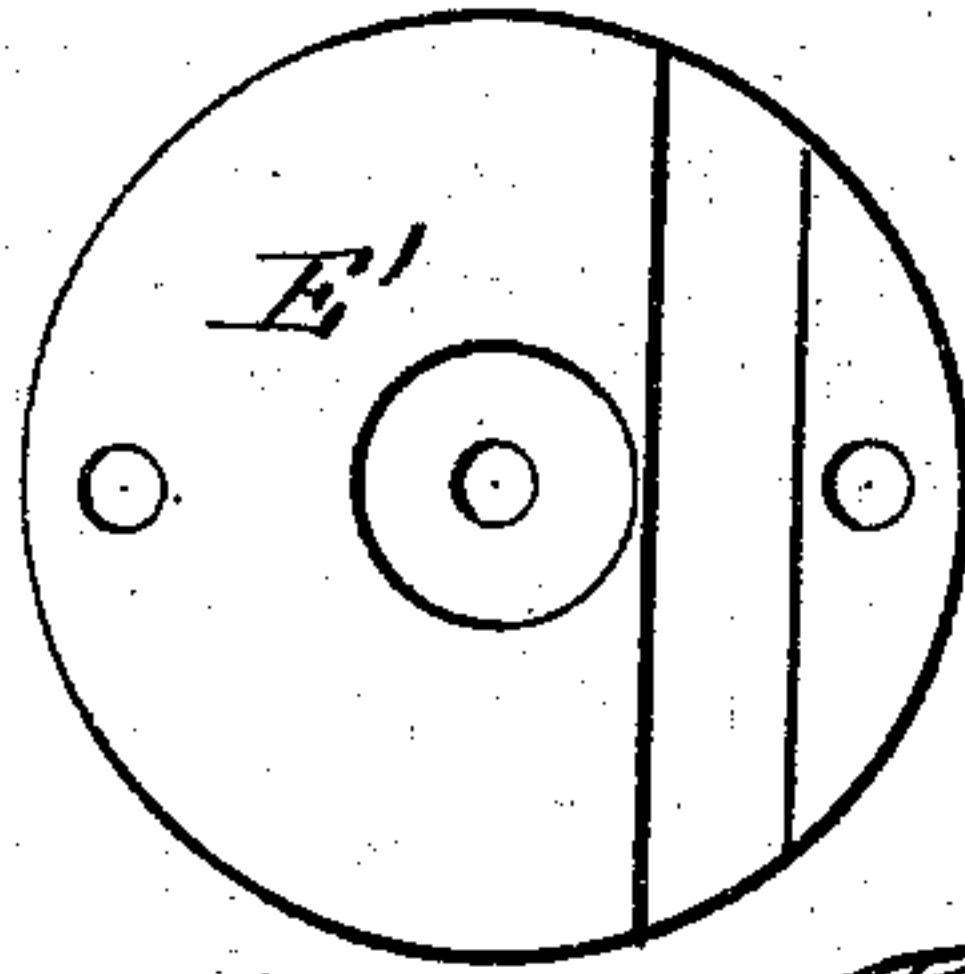


Fig. 5.

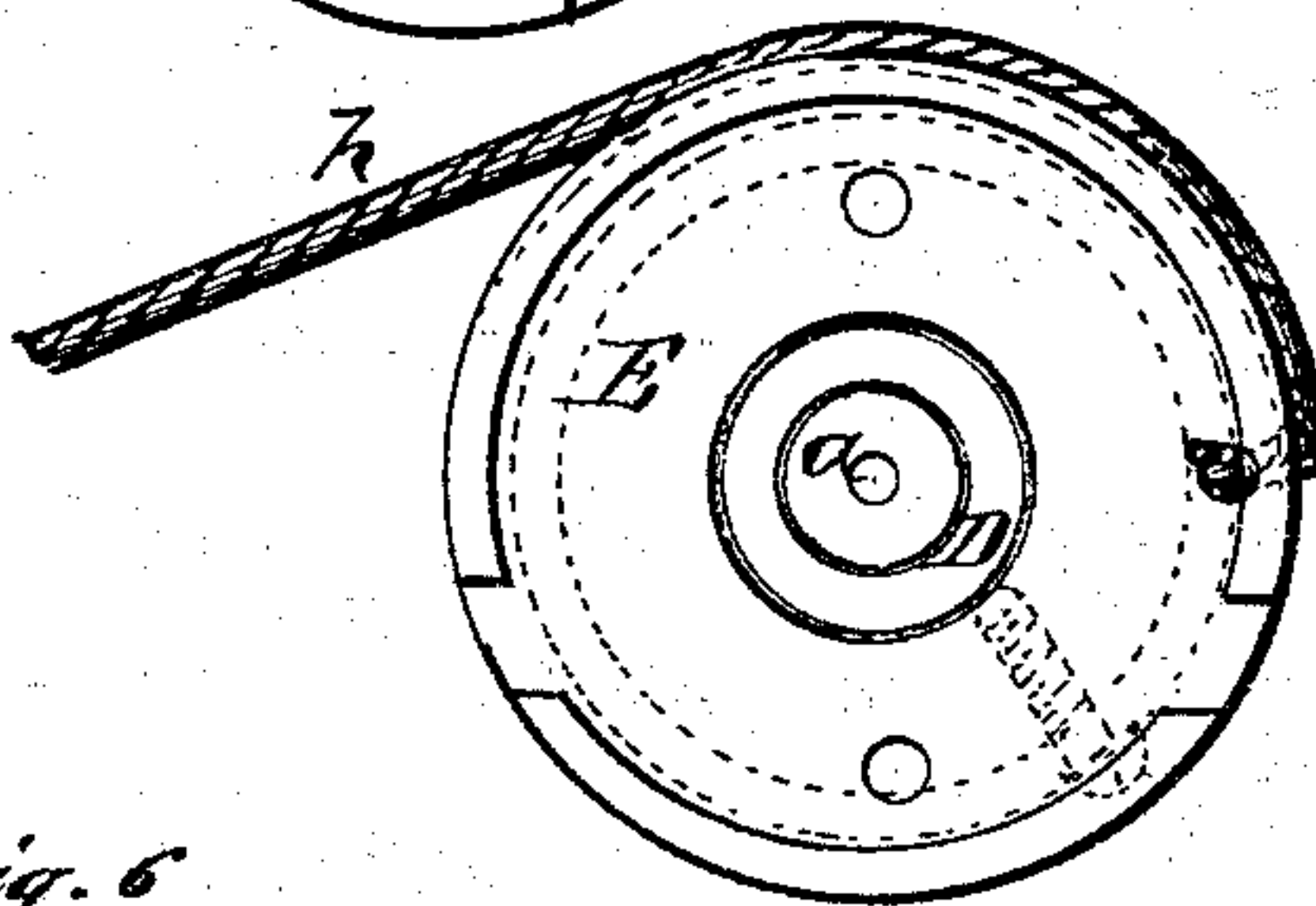
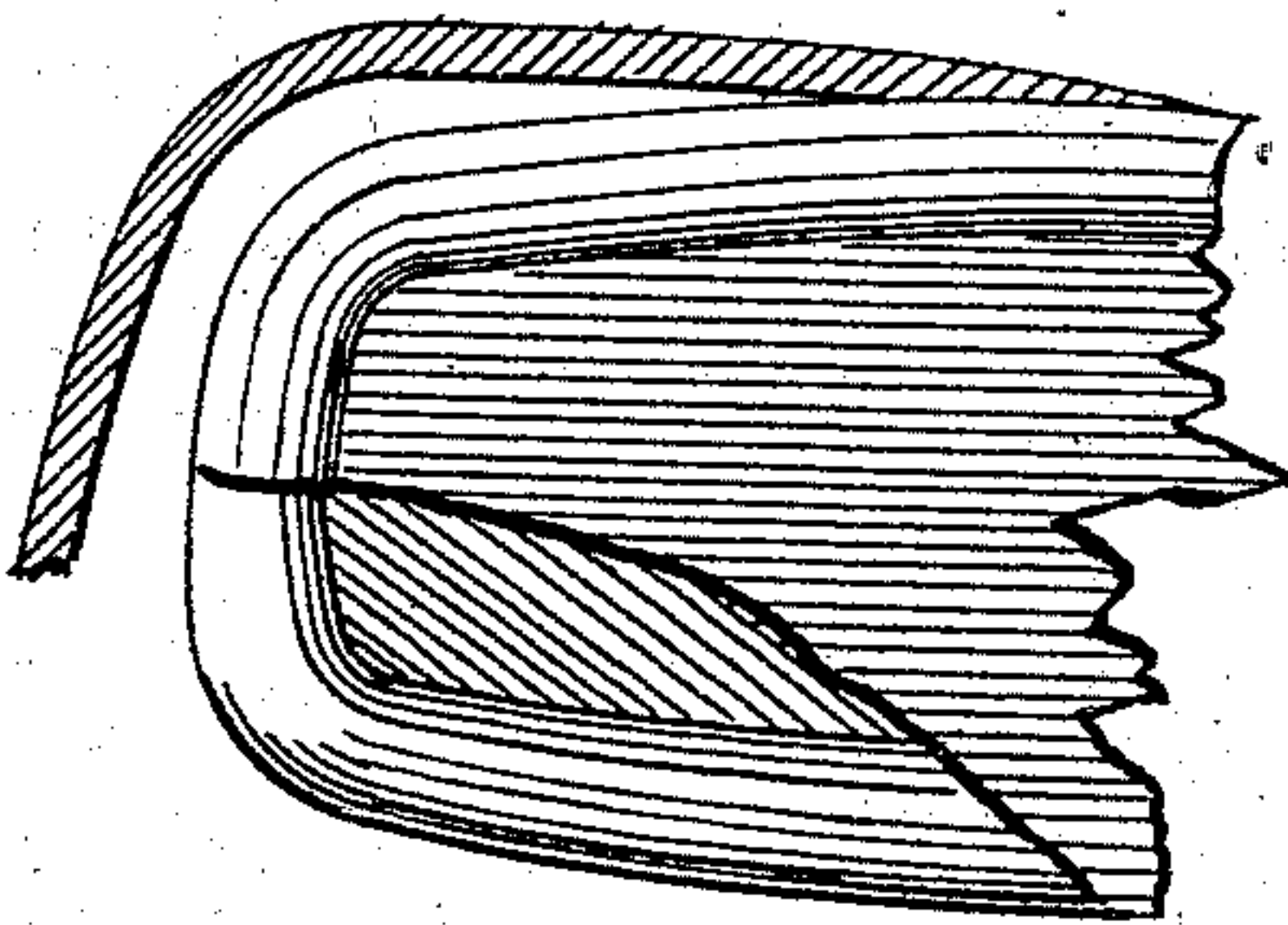


Fig. 6.



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Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN H. HUSSEY, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO ADLER, CLEMENT & WIEL, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR CHANNELING SOLES.

Specification forming part of Letters Patent No. **153,831**, dated August 4, 1874; application filed July 20, 1874.

To all whom it may concern:

Be it known that I, JOHN H. HUSSEY, of Baltimore, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Machines for Channeling Soles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to machines for channeling the soles of boots and shoes; and the nature of my invention consists in the construction and arrangement of an attachment to such machines, whereby any desired portion or portions of the edge of the sole may be chamfered or beveled at the same time as it is channeled, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a side view, and Fig. 2 a plan view, of a machine embodying my invention. Fig. 3 is an enlarged longitudinal section of the same. Figs. 4 and 5 show the tool-holding head; and Figs. 6 and 7 show the work done with the machine.

A represents the lower feed-wheel of a channeling-machine, mounted upon a shaft, which passes through a bearing, B, formed upon the frame or standard C. On top of the bearing B is a stud, *a*, upon which is placed a hub, D, provided with a circumferential flange, *b*, around its lower end, and held on the stud by means of a washer, *d*, fastened by a screw on the upper end of the stud, said washer being of the same, or a trifle smaller, diameter as the outside of the hub. The exterior circumference of the hub D is provided with screw-threads, and upon the same is screwed a head or holder, E, in the upper part of which is a groove for the insertion of the knife G. This knife is held stationary by means of a grooved cap, E', fastened by screws on top of the head E. To the head E is also fastened a cord, *h*, which passes over a pul-

ley, H, and connects with a treadle, I, as shown, said treadle being held normally in an elevated position by a spring or other suitable means.

The above mechanism is intended to be so arranged, with relation to the ordinary channeling-tool, that, when the treadle I is pressed, the head will be revolved to bring the knife or cutter G over the feed-wheel A immediately behind said channeling-tool, and when the pressure is removed from the treadle, the friction of the edge of the sole against the side of the head E will revolve the same backward to turn the cutter G out of the way. The movement of the head and hub upon the stud *a* is limited by means of adjustable stops *e e*, against which the ends of the knife G will strike. The end of the knife G is shaped, as shown, so as to cut the edge of the sole chamfered or beveled by cutting off a strip from the upper side of the sole.

A shoe finished with this sole will appear as if it had a very thin sole, the edge being thin, while, in fact, the sole is of ordinary thickness, or may be of any thickness desired.

The head E is held fast on the hub D by means of a set-screw, *f*, and by loosening said set-screw the head may be adjusted up and down by turning the hub alone, after which the set-screw *f* is tightened again, the threads on the exterior of the hub being cut away for a certain distance for this purpose. By this adjustment of the head the chamfer or bevel on the edge of sole may be made of any desired depth.

It will readily be seen that, by the construction of this device, the chamfer or bevel may be made to commence and end at any point upon the sole, as the chamfering-tool is instantaneously brought into use by depressing the treadle, and caused to turn out of the way as soon as the pressure is removed therefrom.

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

1. The revolving head E, in combination with an endwise adjustable chamfering-tool,

G, capable of being thrown in and out of contact with the sole while in operation by suitable mechanism, as shown, and the feed-wheel A, substantially as and for the purpose specified.

2. The combination of the rotating hub D, provided with exterior screw-threads, the adjustable head E screwed thereon, the chamfering-tool G, cord h, and treadle I, all sub-

stantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as of my own, I affix my signature in presence of two witnesses.

JOHN H. HUSSEY.

Witnesses:

HARRY C. SCOTT,
C. L. EVERT.