

J. H. J. M. & H. O. Thompson,
Shoe-Sole Machine.

N^o 12,877.

Patented May 15, 1855.

Fig. 2.

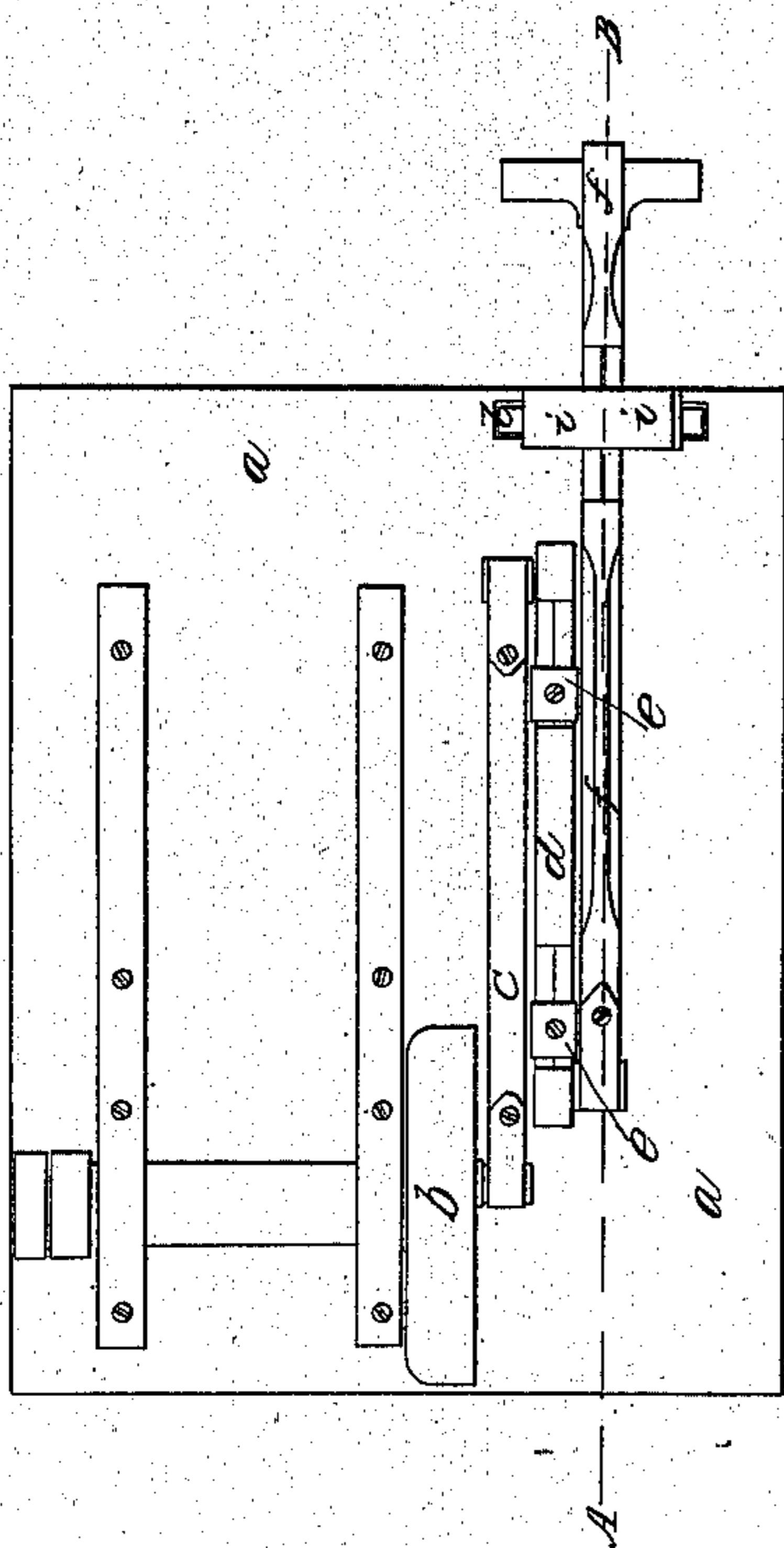


Fig. 3.

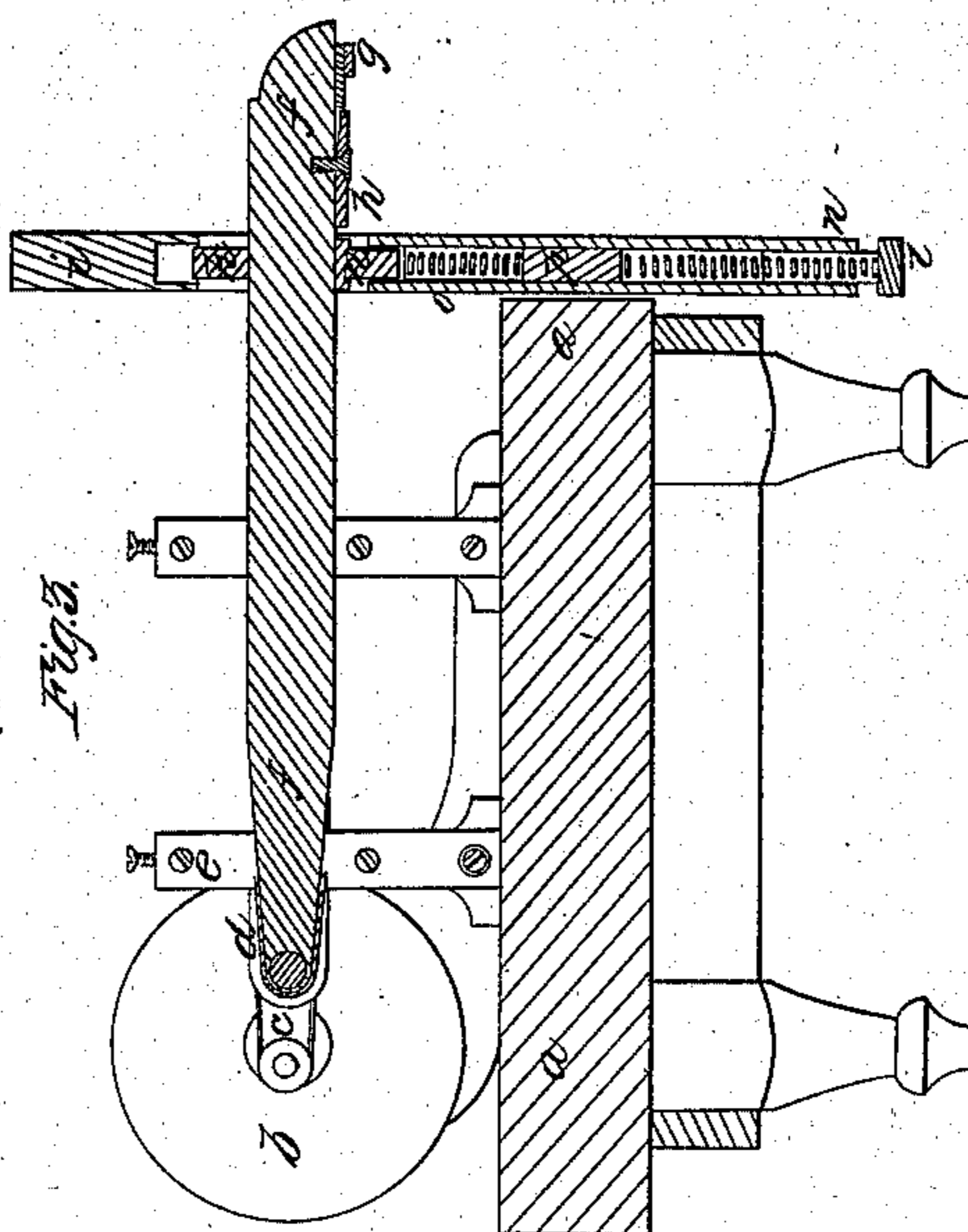
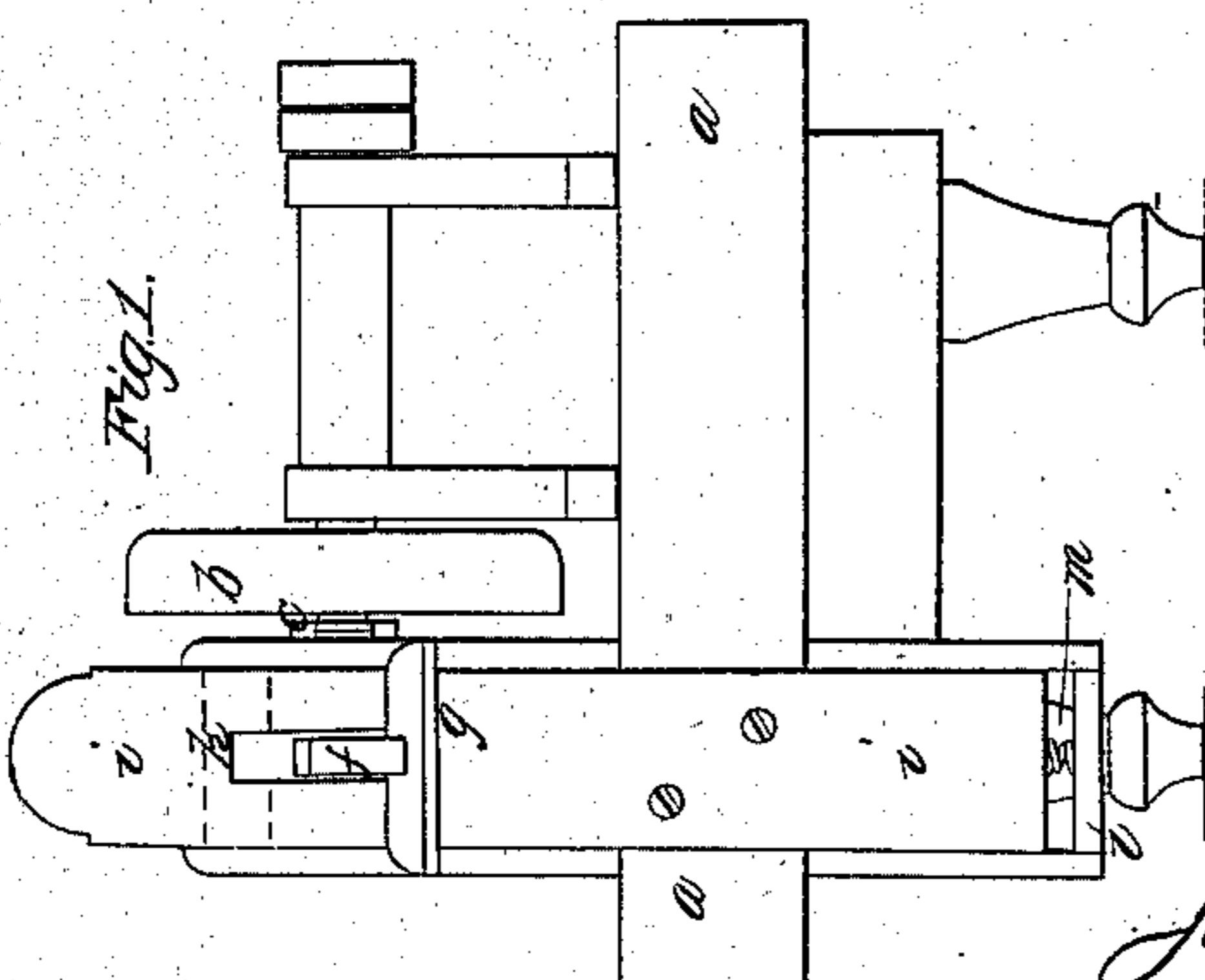


Fig. 1.



Witnesses:
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UNITED STATES PATENT OFFICE.

J. H. THOMPSON, J. M. THOMPSON, AND H. Q. THOMPSON, OF HOLDERNESS, NEW HAMPSHIRE.

MACHINE FOR POLISHING THE SOLES OF BOOTS AND SHOES.

Specification of Letters Patent No. 12,877, dated May 15, 1855.

To all whom it may concern:

Be it known that we, J. H. THOMPSON, J. M. THOMPSON, and H. Q. THOMPSON, all of Holderness, in the county of Grafton and State of New Hampshire, have invented a certain new and useful Machine for Polishing the Soles of Boots and Shoes, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein we have set forth the nature and principles of our said invention, by which it may be distinguished from others of a similar class, together with such parts as we claim and desire to have secured to us by Letters Patent.

The figures of the accompanying plate of drawings represent our improvements.

Figure 1, is an end elevation of our machine. Fig. 2, is a plan or top view of the same. Fig. 3 is a vertical section taken in the plane of the line A, B, Fig. 2.

The soles of boots and shoes have heretofore been polished or "boned" entirely by hand labor. Our machine is designed to accomplish this work, with much less expense and with greater rapidity, more than double the amount of work being accomplished in the same time by the machine than by hand.

The most essential features of our machine, consists of two bone polishers, attached to a reciprocating shaft, which derives its motion from two other parallel shafts. The boot or shoe is held, with its sole uppermost, against a bone polisher, which polishes the main portion of the sole, the part of the shank near the heel, being polished by another bone, attached to the same shaft as the first bone.

a a in the drawings, represents the supporting framework of the machine.

b is a driving wheel, to which is eccentrically attached, a connecting rod *c*, attached to a shaft *d*, which has its bearings in the standards *e e*. To one end of the shaft *d d*, is connected the shaft *f, f*, which carries the bone polishers *g* and *h*, the former being placed at right angles to the shaft, *f f*, and the latter in a longitudinal

position on the underside of the same. By means of the driving wheel *b*, and shafting as described, it will readily be seen that a quick reciprocating motion will be given to the bone polishers *g* and *h*, the triple shafting serving to prevent all jar, and giving a regular and uniform motion to the polishers. The shaft *f f* passes through a standard *i i* so as to move up and down in the same. The boot or shoe is held with its sole uppermost against the first polisher *g*, which by its motion polishes the greater portion of the sole. The boot or shoe is then turned, and held in such a manner, as to bring the portion of the shank near the heel against the second polisher *h*, which polishes the part of the sole near the heel that cannot readily be reached by the first polisher. The shaft *f*, while the sole is pressed against the bones, bears against a cross bar *k*, attached to a sliding frame *l*, Fig. 1. The frame *l* bears at the bottom against a spiral spring *m*. By this arrangement the shaft *f f* can play up and down in the standard *i i*, and by the force of the spring *m*, will cause the polishers to bear down upon the sole with an elastic yielding pressure. The under part of the shaft *f f* rests upon a stud bearing *n* which abuts against a spiral spring *o* in the standard *l l* the spring resting against a piece or rest *p*. Thus the shaft *f f* has an elastic bearing on both its upper and under sides.

Having thus described our improvements we shall state our claim as follows.

What we claim as our invention and desire to have secured to us by Letters Patent is—

A machine for polishing the soles of boots or shoes having a polisher or polishers made of bone or other proper material attached to a shaft which has a reciprocating motion imparted to it in any desirable manner.

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Witnesses:

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