

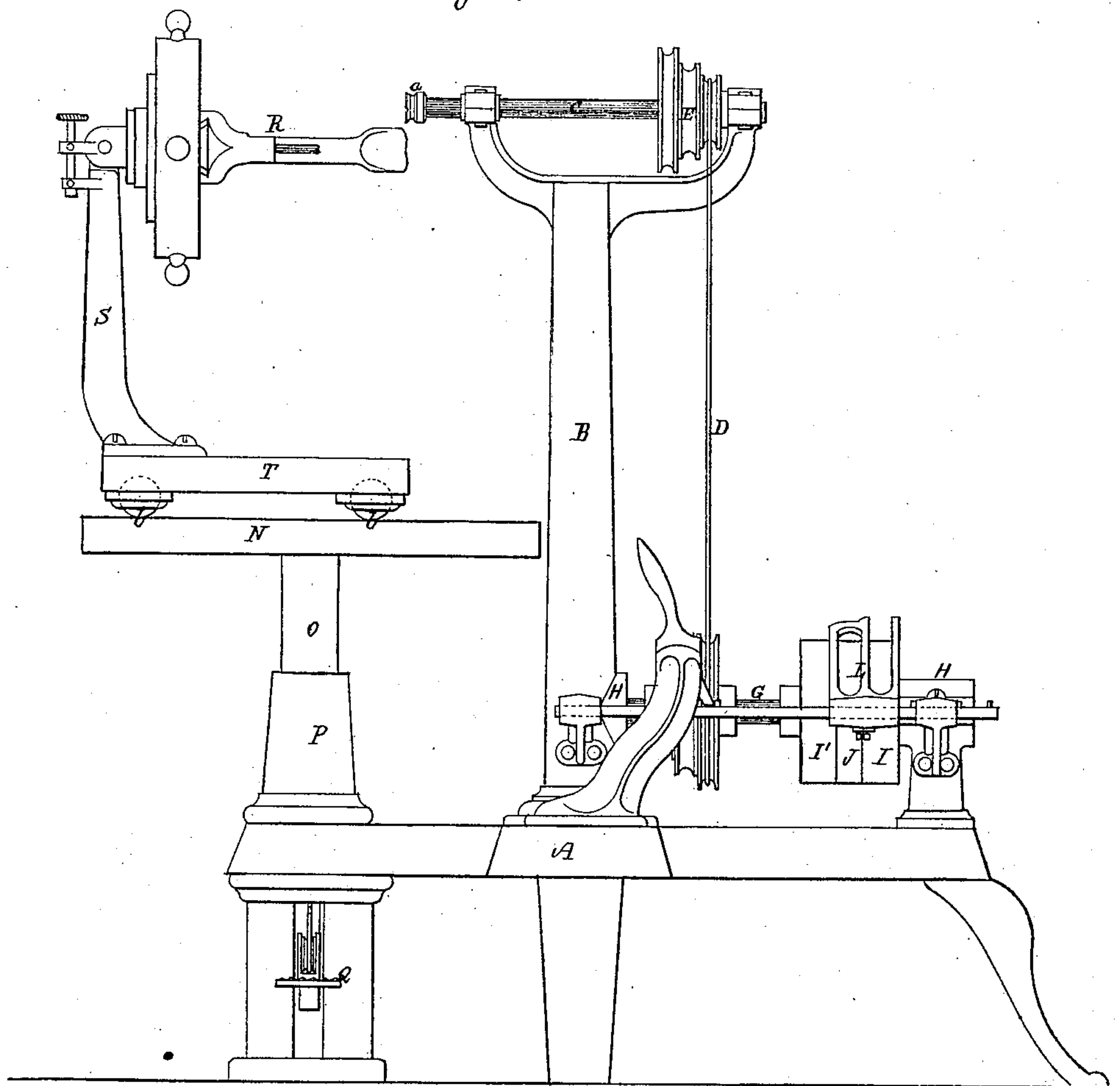
S. H. HODGES.

Improvement in Burnishing-Machines for Setting the
Edges of Boot and Shoe Soles.

No. 129,663.

Patented July 23, 1872.

Fig. 1.



Witnesses.
W. Geo. Alden.
H. E. Boardman.

Samuel H. Hodges.
by A. Curtis.
Atty.

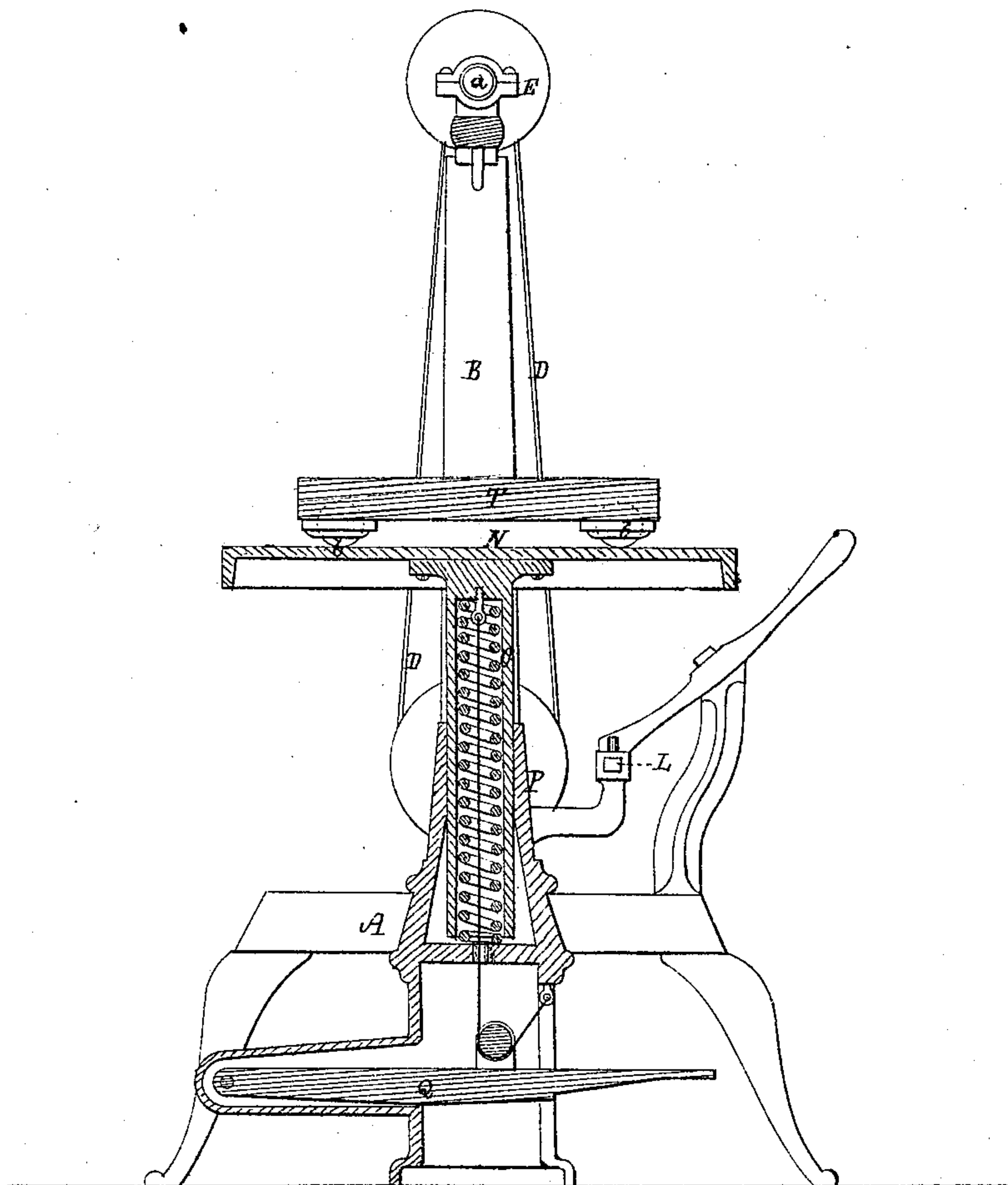
S. H. HODGES.

Improvement in Burnishing-Machines for Setting the Edges of Boot and Shoe Soles.

No. 129,663.

Patented July 23, 1872.

Fig. 2.



Witnesses.
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H. E. Boardman.

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UNITED STATES PATENT OFFICE.

SAMUEL H. HODGES, OF LYNN, MASSACHUSETTS, ASSIGNOR TO THE HODGES
EDGE TRIMMING AND SETTING MACHINE ASSOCIATION, OF SAME PLACE.

IMPROVEMENT IN BURNISHING-MACHINES FOR SETTING THE EDGES OF BOOT AND SHOE SOLES.

Specification forming part of Letters Patent No. 129,663, dated July 23, 1872.

Specification describing certain Improvements in Machinery for Burnishing or Setting the Edges of Boot and Shoe Soles, invented by SAMUEL HORATIO HODGES, of Lynn, Essex county, Massachusetts.

My present improvements relate to machinery for setting the edges of boot and shoe soles which assimilate more or less closely to that shown in Letters Patent of the United States numbered 117,287, and issued to me on the 25th day of July, 1871—that is to say, I have, in the machine herein shown, adopted a jack for supporting and presenting the boot which possesses freedom of motion in any desired direction; but, in lieu of mounting the setting-tool in a flexible or jointed swinging frame, I have attached such tool to a shaft revolving in a rigid post or column, and compel the jack to execute all the requisite variable movements to adapt the setting-tool to the irregularities or curvatures of the sole. These improvements consist, first, in the employment of a table mounted upon or carried by a post, which slides vertically within a pedestal disposed alongside of the column which supports the setting-tool shaft, the table being elevated by a spring and depressed by a foot-treadle in such manner as to obtain a variable vertical movement, which is under the control of the operator, the whole being as hereinafter explained. Secondly, these improvements consist in the employment, in combination with the variable table before named, of a jack of any suitable construction, mounted upon a base plate or carriage, which is capable of being trundled about upon the table in any direction at the pleasure of the operator, thus giving him the means of instantly varying the position of the boot in a horizontal plane, and accommodating its sole to the changes in position rendered necessary as the setting-tool rotates over its edge, the vertical variations of the table being obtained by the use of the spring and treadle, as before stated.

The drawing accompanying this specification represents, in Figure 1, a side elevation, and in Fig. 2 a vertical and transverse section of a machine embodying the improvements which constitute the subject-matter of these Letters Patent.

In this drawing, A denotes the main base or frame of the machine, upon which, at about

its center, is erected an upright column, B, within the upper part or head of which a horizontal shaft, C, revolves, rotations being imparted to this shaft by an endless belt, D, which travels about a pulley, E, fixed upon it, and a second pulley, F, fixed to a horizontal driving-shaft, G, mounted in suitable standards or boxes H H springing from the base A. Upon the rear end of the driving-shaft G I mount, loosely, two pulleys, I I', while intermediate between these pulleys I affix to such shaft a fast pulley, J. In connection with the two pulleys I I' I employ two endless bands, which are driven in opposite directions by suitable driving-pulleys, and with these bands I use a double shipper, L, by which either belt may be run onto the fast pulley J, and rotate it and the shaft C in one or the other direction, as may be desired; the object of this being to reverse the direction traveled by the setting-tool *a* applied to the shaft C, in order that it may act in both directions upon the sole-edge, if desirable. N in the drawing represents a flat horizontal table, mounted upon an upright post, O, which slides freely within a tubular pedestal, P, erected upon the front end of the base A, a suitable spring or its equivalent being combined with the pedestal and table to elevate the latter, while to depress such table I combine with it and the pedestal a foot-treadle, Q, this treadle controlling the vertical variations of the table. R in the drawing represents the jack which is to supply the boot or shoe and present its sole-edge to the action of the setting-tool *a*, this jack being pivoted to the top of an upright standard, S, which is erected upon a horizontal plate or carrier, T, this carrier being furnished with casters *b b* of any suitable character, and being deposited upon the top of the table N, as represented in the drawing in Figs. 2 and 3. The carrier T, and with it the jack, may be trundled about upon the table N in such manner as to present the sole of the boot to the setting-tool at any desired angle, thus imparting a freedom of motion in a horizontal plane, which is very important.

Claim.

1. In machinery for burnishing or setting the edges of boot and shoe soles, a jack or jack support or carriage mounted upon a vertical-

ly-elastic and yielding bed or foundation to obtain vertical freedom of motion for said jack, substantially as and for the purpose stated.

2. In machinery substantially such as specified, a jack-carriage mounted upon casters or their equivalents, and resting upon a table or bed, over which the said carriage may move freely in any necessary direction, substantially as shown and set forth.

3. The combination of a table possessing vertical freedom of motion, as stated, and a jack-carriage possessing horizontal freedom of motion in any direction, essentially in manner and operating as stated.

4. In combination with a jack arranged and operating, as herein shown and described, so as to be capable of freely moving both vertically and laterally or horizontally, a burnishing or setting tool revolving in fixed bearings, and provided with mechanism for arresting or reversing its rotary movement at pleasure, as set forth.

S. H. HODGES.

Witnesses:

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W. E. BOARDMAN.