

J. B. JOHNSON.

Machinery for Shaping Shoe-Soles.

No. 152,559.

Patented June 30, 1874.

Fig. 1.

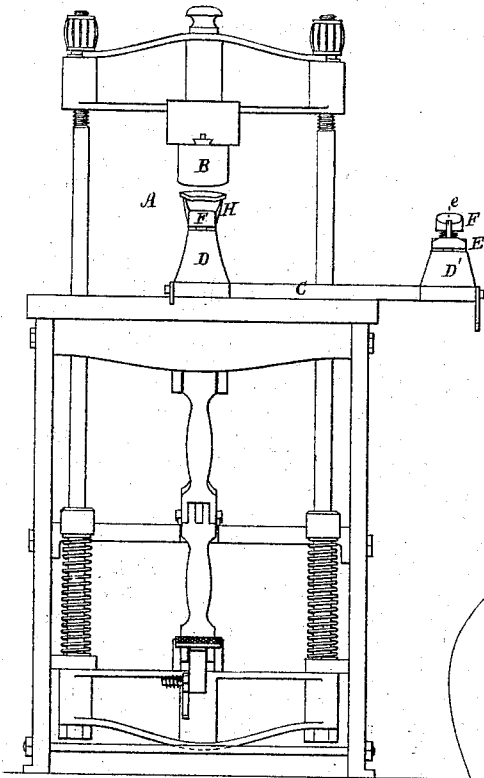


Fig. 2.

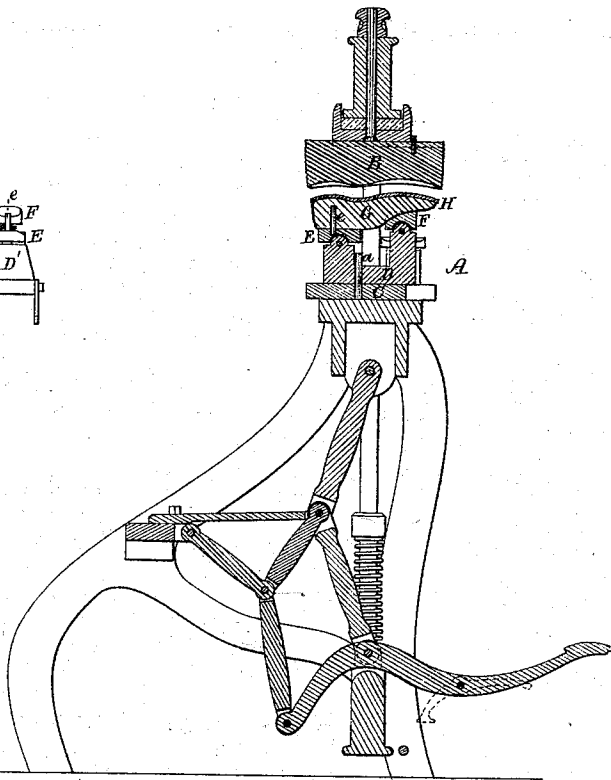


Fig. 3.

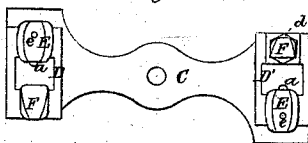


Fig. 4.

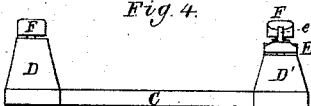
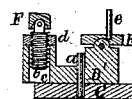


Fig. 5.



Witnesses.

S. N. Piper
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by his attorney

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UNITED STATES PATENT OFFICE.

JOSEPH B. JOHNSON, OF LYNN, MASSACHUSETTS, ASSIGNOR TO SWAIN,
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IMPROVEMENT IN MACHINERY FOR SHAPING SHOE-SOLES.

Specification forming part of Letters Patent No. **152,559**, dated June 30, 1874; application filed
April 30, 1874.

To all whom it may concern:

Be it known that I, JOSEPH B. JOHNSON, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Machinery for Shaping Shoe-Soles; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, and Fig. 2 a transverse and vertical section, of a sole-shaping machine provided with my invention. Fig. 3 is a top view, Fig. 4 a front elevation, and Fig. 5 a longitudinal section, of the rotary bar and last-supporting mechanism of said machine.

My present invention has reference to the machine for which Letters Patent No. 75,428, dated March 10, 1868, were granted to me.

In that machine each last and its supporting-foot were cast in one piece of metal. The machine was not adapted for use with a common wooden last, with a shoe upon it. Before each shoe could have its sole pressed into shape by the machine such shoe would have to be removed from the wooden last used in lasting it. Consequently, an iron last became requisite for each size of shoe.

With my present machine no such iron last is necessary; nor is any removal of the shoe from its wooden last essential prior to the operation of shaping the sole by the machine. The shoe as lasted upon its wooden last, and provided with an outer sole, can with its wooden last be introduced into the machine, and have its sole pressed or shaped thereby.

In the drawings, A represents the press; B, the sole-mold thereof, and C the rotary bar, all being substantially as represented in my said patent. The rotary bar has pins or pivots *a a* extended up from it near its ends, each of such pivots going up into one of two rotary jacks or base-blocks, D D', thereof, formed as shown, and resting upon the bar. Each of such base-blocks is furnished with two pivoted heel and toe rests, E F, which are hinged to it so as to enable each to be tipped forward or backward in a vertical

plane passing longitudinally through them and the base-block. One of the said toe-rests is shown as having a screw, *b*, extended down from it into a hole, *c*, in the base-block, and provided with a nut, *d*. The nut, screwed on the screw and resting on the base-block, serves with the screw to vary the altitude of the toe-rest more or less with reference to the heel-rest, as circumstances may require. A stud, *e*, extended upward from each heel-rest, enters a last, G, when thereon, and serves to maintain it on the heel and toe rests.

I do not claim a pegging-jack constructed as represented in the United States Patent No. 15,462, in which the toe-rest is not self-adjusting, but is a long arm or lever, hinged near its foot to the base, and secured thereto by an adjusting-screw, the same being so that were the screw removed from the lever and base the lever or toe-rest would not adjust itself to the last, or be adjusted by it, but would fall away from it.

In the said pegging-jack the toe-rest is adjustable only by or through the adjusting-screw, and by manual power applied thereto, whereas, by my construction and arrangement of the toe-rest and its pivot, it becomes self-adjusting, or adjustable to the last by pressing the latter down upon it, and it cannot fall away from the last or the heel-rest thereof.

In consequence of such heel and toe rests being separate pieces, hinged to or connected with their base-block in manner as described, they are enabled to readily adapt or adjust themselves to a lasted shoe when applied to it.

In the drawings a wooden last, G, with a shoe, H, upon it, is represented as applied to one of the jacks or last-supporters.

From the above it will be seen that I use in this machine two jacks or last-supporters, separate from their lasts. In having a last-supporter separate from the mold and the last the machine differs from my patented machine, or any other that I know of.

I do not herein claim either of the subjects of the claims of my said Patent No. 75,428; but

I claim—

1. The rotary base-block D or D', provided with the last-adjusting heel and toe rests E and F, constructed, arranged with, and hinged to the said block, all substantially as described.

2. The combination of the rotary base-blocks D D', and their separate pivoted heel and toe rests E F, with the rotary bar C, the mold B, and the press A, all being to operate substantially as described.

3. The combination of the screw *b* and nut *c* with the toe-rest F and the rotary base-

block D', and its separate heel-rest E, all being applied essentially in manner and to operate as specified and represented.

4. The combination of a yoke or last-supporter, separate from the last and the mold, and provided with the heel and toe rests E F, as set forth, with the mold and the press for operating the mold.

JOSEPH B. JOHNSON.

Witnesses:

R. H. EDDY,
J. R. SNOW.