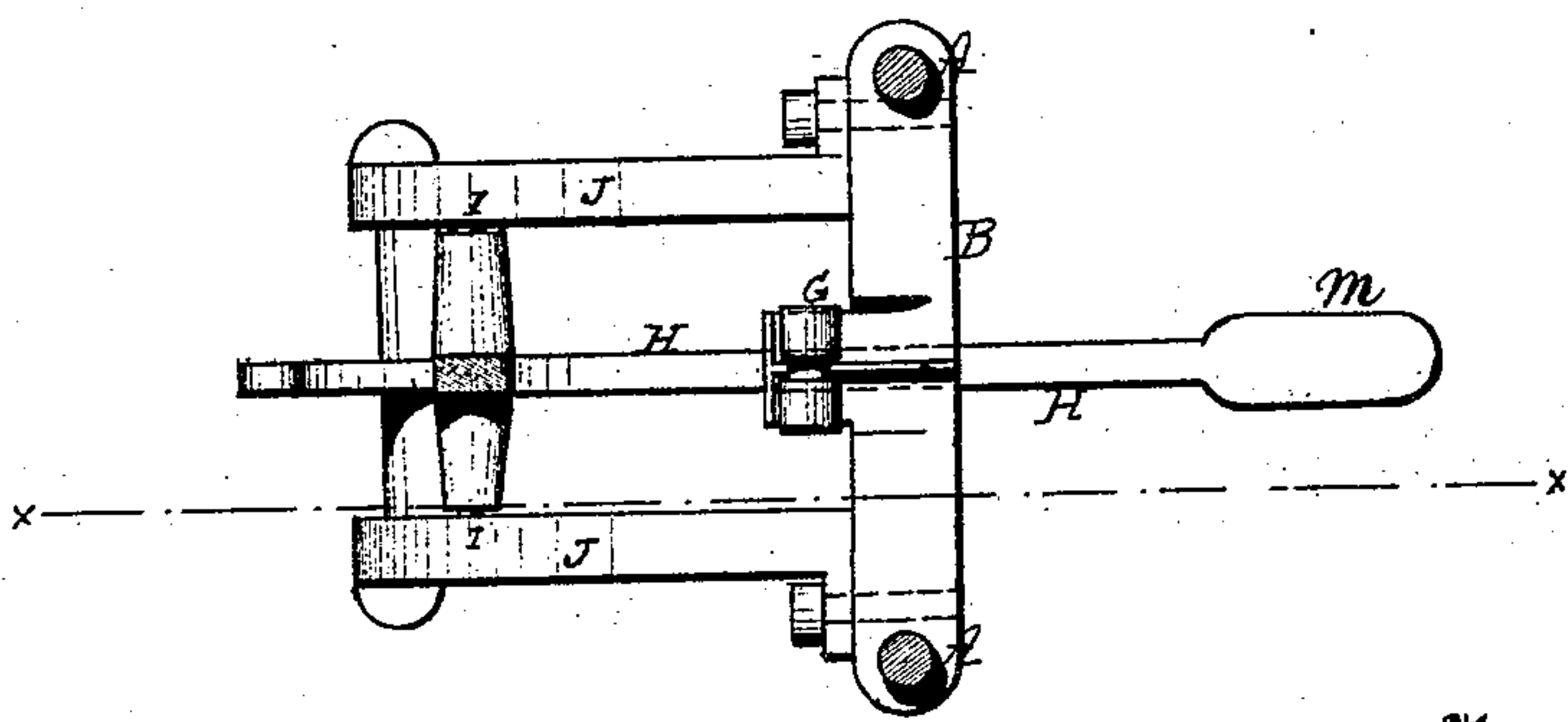
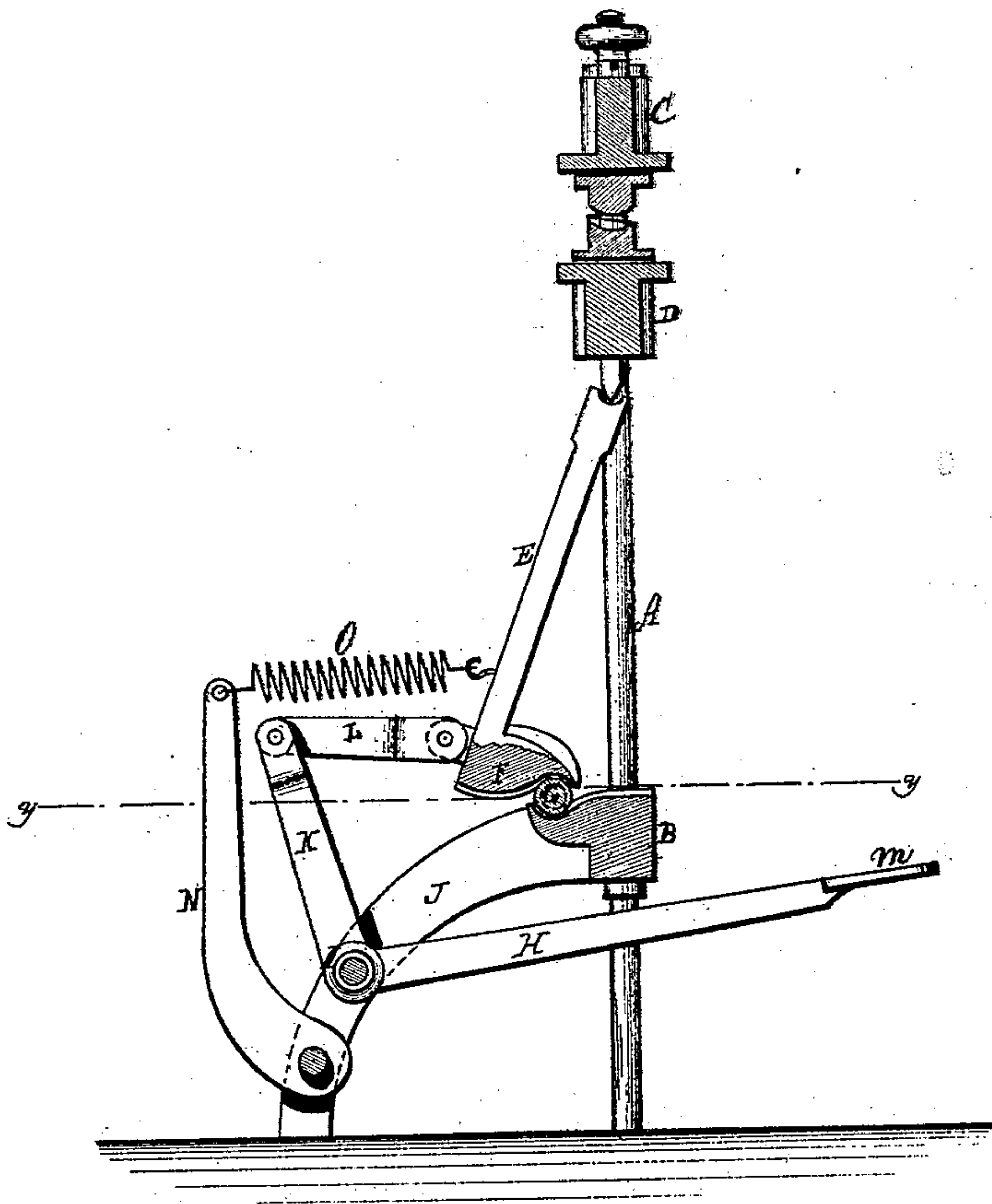


*S. D. Tripp,*  
*Sole Machine.*  
*No. 96,639.* *Patented Nov. 9. 1869.*



**Witnesses:**  
*Chas. Nida.*  
*Geo. W. Mabee*

**Inventor:**  
*S. D. Tripp*  
**PER** *Mmm*  
**Attorneys.**

# United States Patent Office.

S. D. TRIPP, OF LYNN, MASSACHUSETTS.

Letters Patent No. 96,639, dated November 9, 1869.

## IMPROVED DEVICE FOR MOULDING SOLES OF BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern:*

Be it known that I, S. D. TRIPP, of Lynn, in the county of Essex, and State of Massachusetts, have invented a new and useful Improvement in Presses for Moulding Boot and Shoe-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 make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a machine for moulding or forming the soles of boots and shoes, so that they shall correspond with the last, and consists in producing the pressure by means of a roller, revolved between two inclined planes by a bent lever, and in the construction, arrangement, and combination of parts, as hereinafter more fully described.

In the accompanying plate of drawings—

Figure 1 represents a sectional elevation of the machine on the line *x x* of fig. 2.

Figure 2 is a horizontal section on the line *y y* of fig. 1.

Similar letters of reference indicate corresponding parts.

A A represent two stands, which rest upon the floor, and form the main support of the machine.

They are connected together by the rigid bed-piece B and by the adjustable cap-piece C.

D is a cross-head, which slides freely up and down on the stands A A.

One half the mould is attached to the under side of the cap C, and the other half is attached to the upper side of the cross-head D.

The cap C being fixed, the moulding or forming of the leather sole is accomplished by forcing up the cross-head D.

The upper side of the bed-piece B is an inclined plane.

E is the presser-bar, the foot F of which is also an inclined plane, corresponding in form with that on B, but placed in a reverse position.

G is the roller between the two inclined planes.

The roll is kept in its proper position by a groove in its periphery, and by ribs on the inclined planes, as seen in the drawing.

H is a bent or elbow-foot lever, whose fulcrum is at I, on the curved legs J J.

The arm K of the lever is connected with the foot of the presser-bar by the rod L, and the press is actuated by bearing upon the foot-piece M of the lever, which throws forward the foot of the presser-bar, and revolves the roll between the inclined planes.

The presser-bar is raised by the inclined planes, as it is thrown forward, and imparts the movement to the cross-head D and mould thereon.

N is an arm, rigidly attached to the curved legs J.

O is a spiral spring, attached to N and to the presser-bar, the duty of which, is by its recoil, to draw back the foot of the presser-bar, and thereby lower the cross-head and mould, as it is represented in the drawing.

By this arrangement almost any amount of power may be imparted to the cross-head, and consequently, the soles of boots and shoes subjected to the pressure between the parts of the mould, not only assume the shape or form of the mould, but the leather will be condensed and rendered hard and firm.

By means of the inclined planes and roller, arranged as seen, by a very slight application of power to the lever-H, the desired result is obtained, thereby saving a vast amount of time and labor in boot and shoe-manufactories.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

1. The combination of the actuating-levers E F and stationary bed B, each having upon its end-faces corresponding cams, with a rotating traveller, G, each of said parts being shaped and arranged, with respect to the other, in the manner specified.

2. In combination with lever E F, bed B, and traveller G, the elbow-lever H K, strap L, spring O, and bar N, all arranged, as described, to form a train of mechanism through which foot-power can be applied, as set forth.

S. D. TRIPP.

Witnesses:

E. E. BOWKER,  
M. L. EDDY.