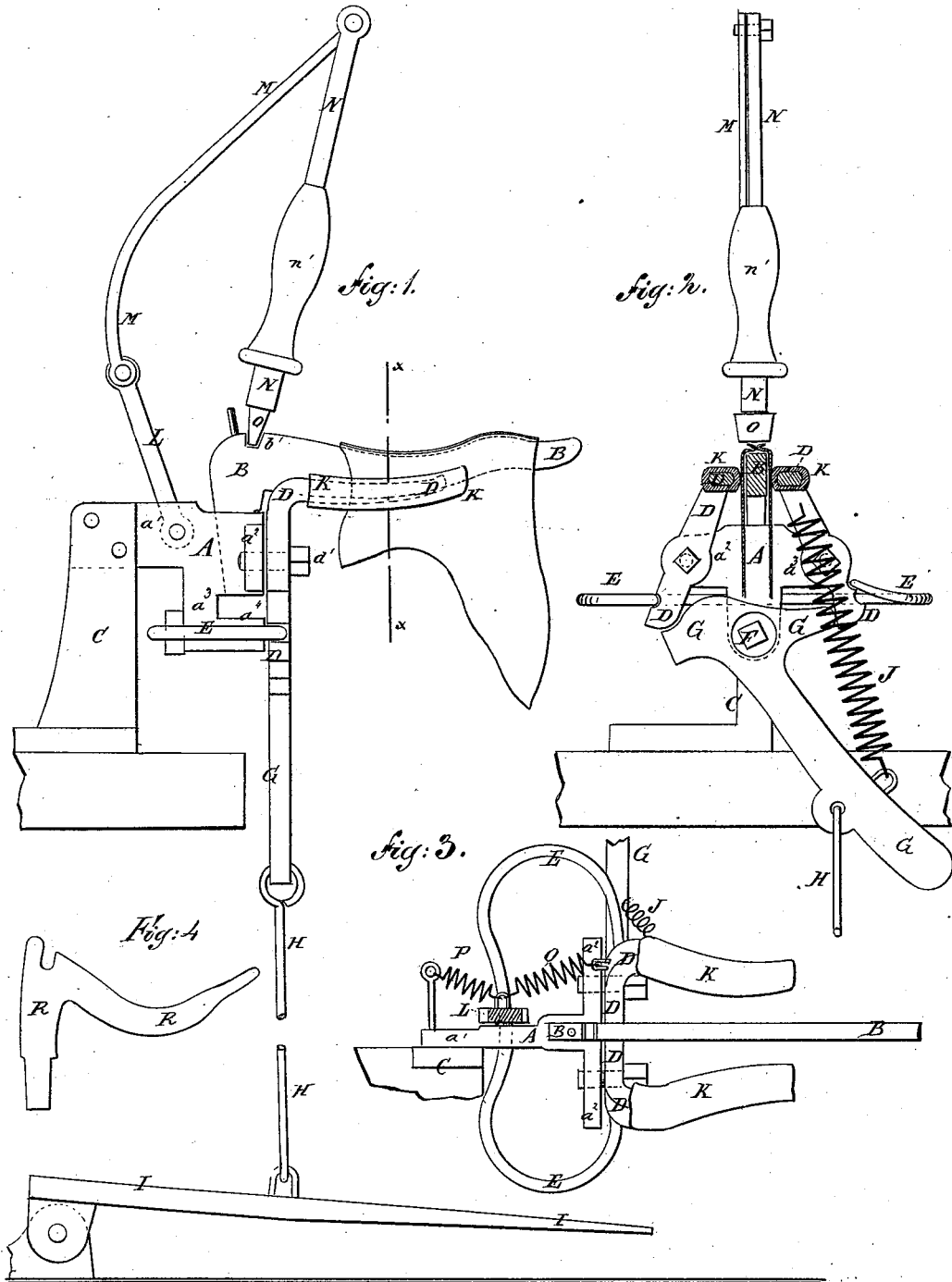


W. MANLEY.  
Seam-Rubbing Apparatus for Boots and Shoes.

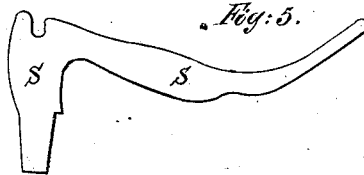
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WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM MANLEY, OF ROCHESTER, NEW YORK.

## IMPROVEMENT IN SEAM-RUBBING APPARATUS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **206,467**, dated July 30, 1878; application filed June 19, 1878.

*To all whom it may concern:*

Be it known that I, WILLIAM MANLEY, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Boot and Shoe Seam Rubbers, of which the following is a specification:

Figure 1 is a side view of my improved machine. Fig. 2 is a front view of the same, partly in section, through the line *x x*, Fig. 1. Fig. 3 is a top view of the same, part being broken away to show the construction. Fig. 4 is a detail side view of a button-lap form. Fig. 5 is a detail side view of a side-lace front-seam form.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine the use of which will enable the seam of boots and shoes to be divided and rubbed down evenly and smoothly in a very short time with a small amount of labor, and which at the same time shall be simple in construction and convenient in use.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A represents a block, in which is formed a socket to receive the shank of the form B. Upon the rear upper part of the socket-block A is formed a lug, *a*<sup>1</sup>, by means of which the said socket-block is secured to a standard, C, to a table, a bench, or other suitable support. The form B is made with its shank vertical, or nearly so, to fit into the socket of the block A, and with its upper part projecting forward nearly at right angles with the said shank. The upper edge of the form B, upon which the seam rests to be rubbed, is made with a long gradual downward curve, a shorter upward and downward curve, and a slight upward curve, to adapt it to fit against the rear seam of a shoe or gaiter, so that the said seam may be rubbed down smoothly.

Upon the opposite sides of the forward part of the socket-block A are formed lugs *a*<sup>2</sup>, to which are pivoted the shanks of two clamps, D. The upper parts or jaws of the clamps D project forward parallel with the lower part of the opposite sides of the form B, so as to press the upper against the sides of the said form, and hold it firmly and smoothly until the seam

is rubbed down. The lower parts of the shanks of the clamps D project below their pivoting-bolts *d*<sup>1</sup>, and have notches formed in their outer edges, in which rest the forward ends of the springs E, by the action of which the clamps D are moved outward to release the uppers. The rear parts of the spring or springs E are secured to a downwardly-projecting lug, *a*<sup>3</sup>, formed upon the rear part of the socket-block A, by a bolt, F, which passes through the said lug and through a hub, *a*<sup>4</sup>, formed upon its forward side. The bolt F also passes through the upper end of the lever G, and thus pivots the said lever against the forward end of the hub *a*<sup>4</sup>. The upper end of the lever G has a cross-head formed upon it, the ends of which are so formed that when the free end of the said lever is pressed downward the ends of the said cross-head will press the lower ends of the shanks of the clamps D outward, and thus press the said clamps against the opposite sides of the form B.

When the free end of the lever G has been forced downward so far as to bring the bearing-points of the ends of its cross-head in line with its pivoting-point, the said lever will be locked in place, holding the clamps D securely against the form B. The clamps D are released to allow the uppers to be removed by raising the free end of the lever G.

The lever G may be operated by hand, or to it may be pivoted the upper end of the rod H, the lower end of which is pivoted to a treadle, I, so that the said clamps may be operated by the foot. In this case a spring, J, is attached to the outer part of the lever G and to one of the clamps D, so that the said clamps may be withdrawn from the form B when the foot is removed from the treadle I by the action of the said spring J. The arms or jaws of the clamps D have rubber K placed upon them, so that they may clamp the uppers firmly against the form B without marring them.

To the rear part of the socket-block A, or to the lug *a*<sup>1</sup>, is pivoted the end of a bar, L, to the other end of which is pivoted the end of the bar M.

The bar M is curved forward, and to its upper end is pivoted the end of the swinging bar N, which has a handle, *n*<sup>1</sup>, formed upon or attached to its lower part, and has a socket

formed in its lower end to receive the seam-rubber O. The seam-rubber O may be made of wood, iron, or other suitable material. In the upper part of the rear end of the form B is formed a notch,  $b^1$ , to receive the seam-rubber O, and serves as a rest for the said seam-rubber when not in use.

In using the machine, the upper is placed upon the form B in such a way that the seam to be rubbed may fit snugly and smoothly upon the upper edge of said form, where it is clamped in place by the clamps D, as shown in Figs. 1 and 2. The seam-rubber O is then moved back and forth along the said seam until it is properly rubbed down.

To the lower part of the bar L are attached the inner ends of two springs, P Q. The outer end of the rear spring, P, is attached to a pin or other support formed upon it, or attached to the socket-block A. The outer end of the forward spring, Q, is attached to one of the clamps D. The springs P Q steady the seam-rubber when in use, so that it may be more easily guided and controlled.

Forms of various shapes may be used, according to the particular seam of the boots or shoes that is to be operated upon. The one shown in Figs. 1, 2, and 3 is especially designed for the rear seam of shoes and gaiters.

The form R (shown in Fig. 4) is designed for use in smoothing down the button-lap seam,

and is made with a long gradual downward and upward curve, to correspond with the shape of the said seam. The form S (shown in Fig. 5) is designed for use in smoothing down the front seam of a side-lace shoe, and is made with a long downward curve, having a slight rise formed in it, and a long upward curve, as shown, to adapt it to fit upon the said seam.

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

1. The combination of the socket-block A, provided with the lugs  $a^1 a^2 a^3$  and the hub  $a^4$ , the form B, the pivoted clamps D, the spring or springs E, and the cross-head lever G, all substantially as herein shown and described.

2. The combination of the connecting-rod H, the treadle I, and the spring J with the pivoted clamps D, the spring or springs E, and the form B, substantially as herein shown and described.

3. The combination of the pivoted bars L M N and the rubber O with the socket-block A and the form B, substantially as herein shown and described.

WILLIAM MANLEY.

Witnesses:

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THOMAS BOLTON.