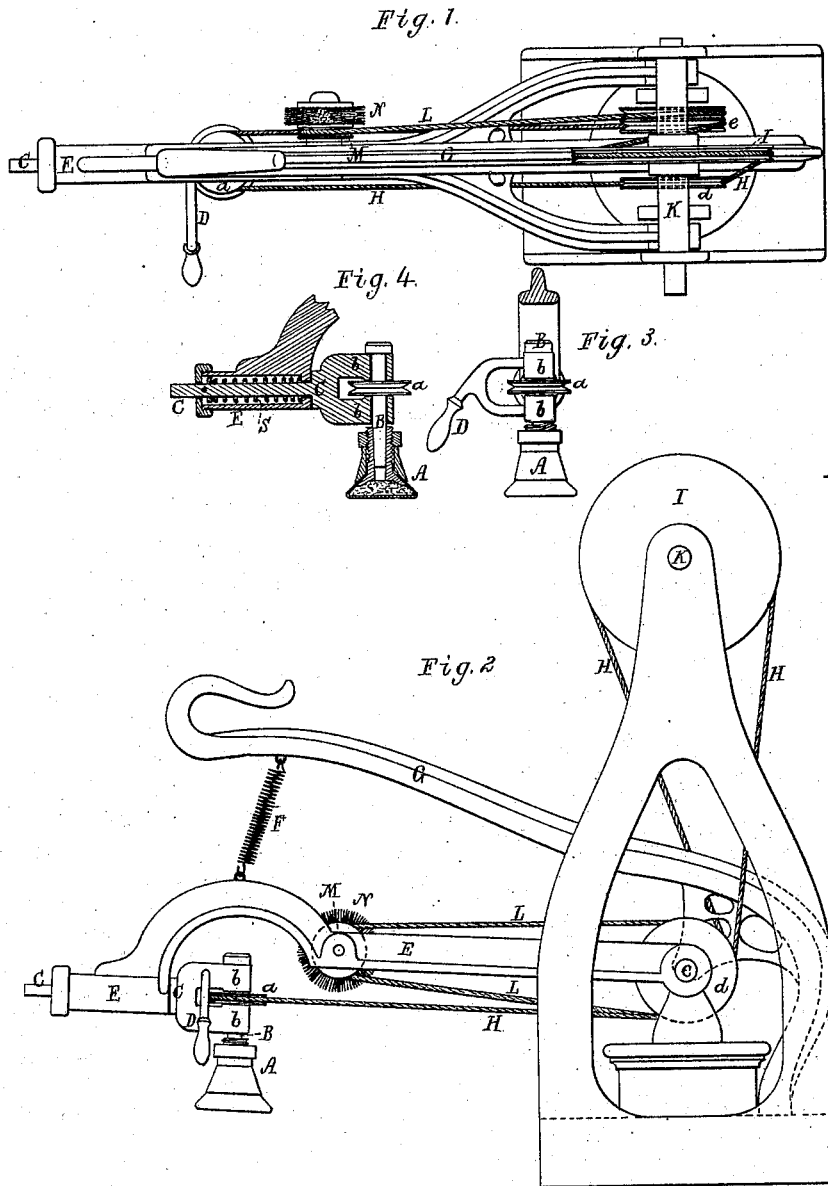


J. W. ROGERS.
Machine for Buffing Shoe-Soles.

No. 211,308.

Patented Jan. 14, 1879.



Witnesses:
L. N. Piper
L. W. Miller

Inventor:
Josiah W. Rogers
by his attorney
R. H. Eddy

UNITED STATES PATENT OFFICE.

JOSIAH W. ROGERS, OF SALEM, MASSACHUSETTS, ASSIGNOR TO HIMSELF,
FREEMAN WINSLOW, AND SIDNEY W. WINSLOW, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR BUFFING SHOE-SOLES.

Specification forming part of Letters Patent No. **211,308**, dated January 14, 1879; application filed
June 9, 1877.

To all whom it may concern:

Be it known that I, JOSIAH W. ROGERS, of Salem, of the county of Essex and State of Massachusetts, have invented a new and useful Machine for Buffing Shoe-Soles; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Fig. 2 a side elevation, of it. Fig. 3 is an inner-side view of the rotary buffer-spindle carrier. Fig. 4 is a longitudinal section of such carrier, the buffer-spindle, and the arm for supporting such carrier.

In this machine the buffer-spindle is to sustain or have fixed to it a buffer like that shown in Letters Patent No. 190,174, dated May 1, 1877, and granted on the invention of Freeman Winslow.

Such a buffer, though under a somewhat different construction, is shown at A in the drawings as fixed to or driven tightly upon a spindle, B, provided with a grooved wheel, *a*, and having its bearings supported in the prongs *b b* of a furcated arbor, C, provided with a handle, D, extended from it, as represented.

The arbor C is pivoted within and supported by a long arm, E, which, forked as shown, is pivoted upon a shaft, *c*, extending between and through its prongs, and supported in suitable uprights. Furthermore, the arm E is sustained by a spring, F, extending down from a stationary arm, G, arranged as represented.

There are upon the shaft *c* two grooved pulleys, *d e*. They revolve freely upon it, and serve as guides to an endless band, H, which goes partly around the pulley *a*, and a pulley, I, arranged, as shown, over the shaft *c*, and fixed on a driving-shaft, K.

Furthermore, the pulley *e* has two grooves in and around its circumference, in the outer one of which another endless band, L, runs, such band being carried about a pulley, M, fixed to the side of a rotary brush, N, pivoted to the arm E, and arranged as shown.

On revolving the shaft K the buffer and the

brush will be simultaneously put in rapid revolution.

By holding firmly with one hand a shoe, and bearing its sole up to the buffer while the latter may be in revolution, a workman, with his other hand hold of the handle D, can turn the buffer-spindle carrier, as may be required, to vary the position of the buffer, in order for it to properly act on the sole, whether in the shank or other part thereof.

The spring enables the workman to force upward the buffer in order to vary its inclination somewhat in the direction of the carrying-arm, as may be required. The endless band, by being applied to the buffer-spindle and arranged with the guide-pulleys, in manner as described, admits of the arbor C being turned in its bearings, as may be required.

By having one of the guide-pulleys with two grooves, as described, it answers not only as a guide for the main driving-band, but as a means of giving motion to the brush-operating band.

Within the carrying-arm, and encompassing the pivoted arbor, is a helical spring, S, which is applied so as to draw back the said arbor, to keep taut the driving-band of the buffer-spindle, especially while the carrying-arm is being moved upward or downward.

The brush is for the purpose of cleansing the sole of the dust left on it after the buffing of it may have been either wholly or partly accomplished.

I claim, in the described shoe-sole-buffing machine, as follows:

1. The combination of the stationary arm G, the spring F, carrying-arm E, furcated arbor C, and the buffer-spindle B, provided with mechanism for revolving it, as set forth.
2. The combination of the spring S, the furcated arbor C, the carrying-arm E, the buffer-spindle B, and the mechanism, as described, for revolving it.

JOSIAH W. ROGERS.

Witnesses:

R. H. EDDY,
JOHN R. SNOW.