(No Model.)

S. ROSS, Jr.

SHOE BURNISHING MACHINE.

No. 409,240. Patented Aug. 20, 1889.

Fig. 1.

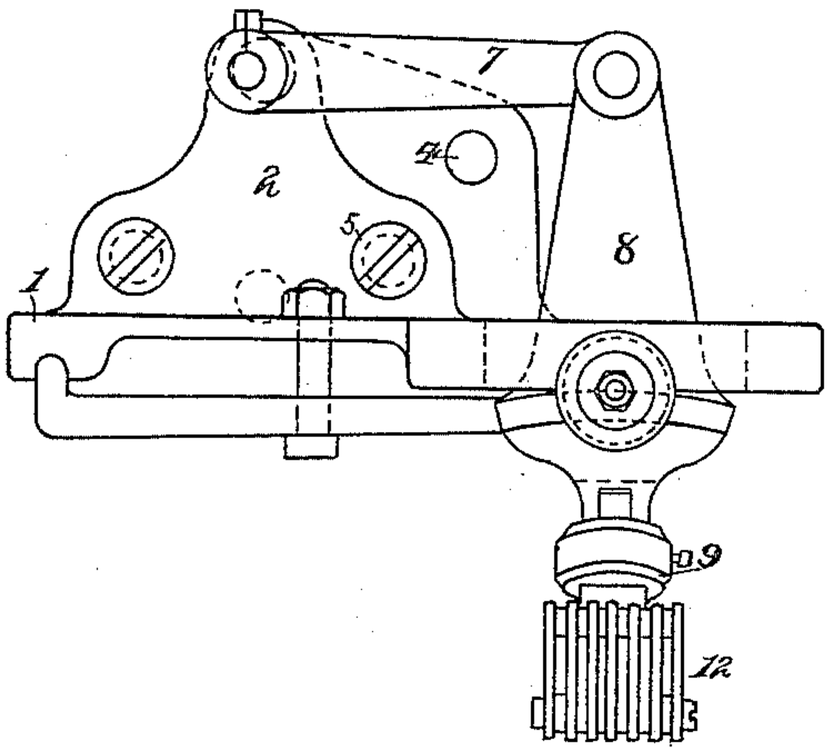


Fig. 2.

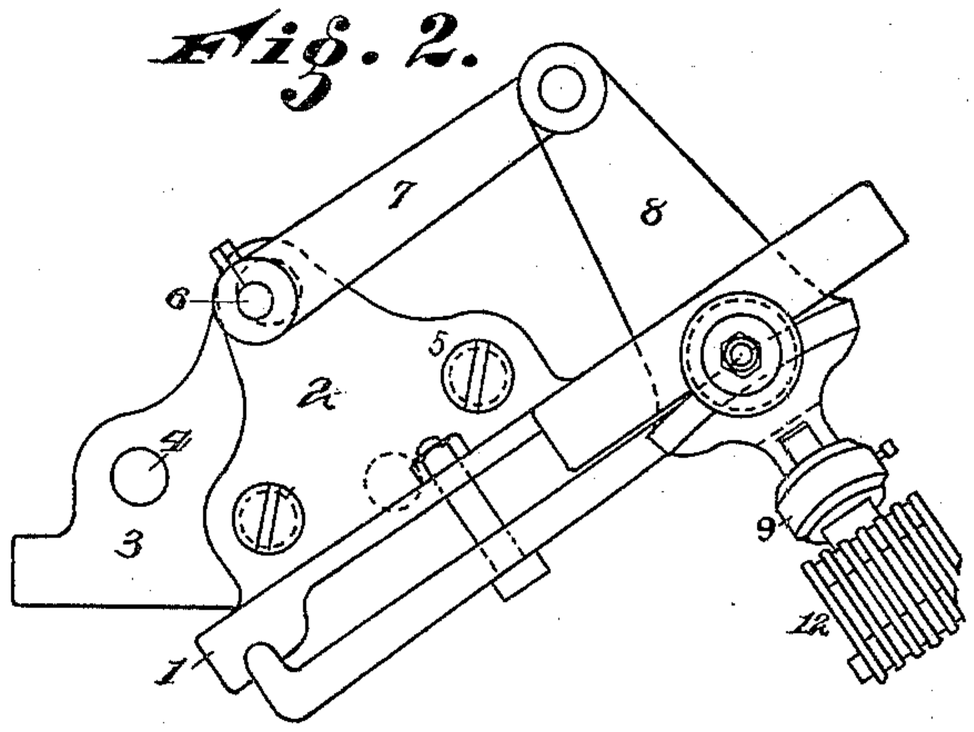


Fig. 3.

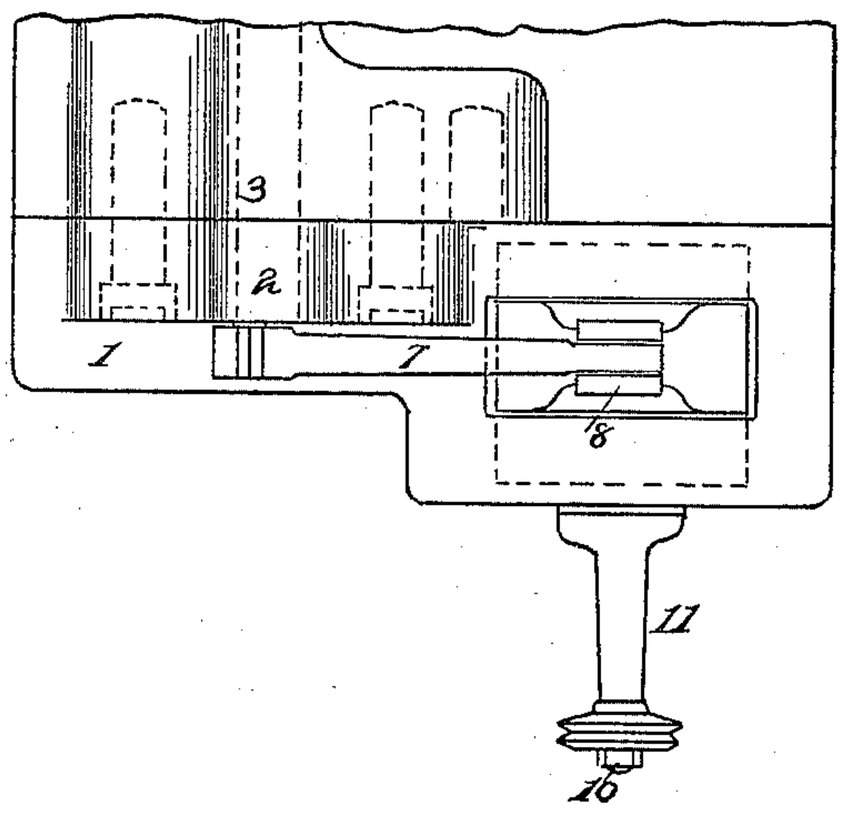


Fig. 4.

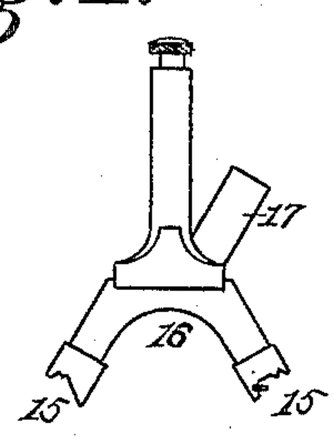
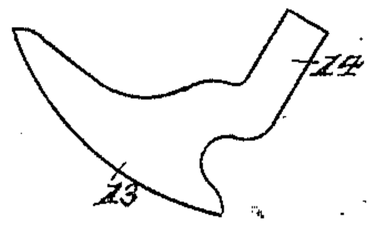


Fig. 5.



Attest
J. Watson Sims
George Ashton

Inventor
Simon Ross Jr.
by Wood & Boyd
His Attorneys &c

UNITED STATES PATENT OFFICE.

SIMON ROSS, JR., OF LINWOOD, OHIO.

SHOE-BURNISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 409,240, dated August 20, 1889.

Application filed December 19, 1888. Serial No. 294,100. (No model.)

To all whom it may concern:

Be it known that I, SIMON ROSS, JR., a citizen of the United States, and a resident of Linwood, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Shoe-Burnisher Machines, of which the following is a specification.

My invention relates to an adjustable stock for shoe-burnishing machinery. I have shown it attached to a reciprocating mechanism constructed substantially like that shown in Letters Patent No. 368,853, granted me August 23, 1887. In burnishing shoes different forms of tools are used to finish different parts of the soles and heels, one being what is known as an "edge-setter," another being the "heel-burnisher," the third tool being the "shank-tool," and a fourth the "beader."

I have shown the form of heel-burnisher used herein of the construction shown in an application of even date herewith, Serial No. 294,098; but I do not limit the invention herein to such a burnisher, as any well-known form may be used, if desired. I have also shown the form of beader described in another application filed of even date herewith, Serial No. 294,099; but this invention is not limited to the use of such a beader, which, however, is the preferred form of tool. In a word, it is desired to use all of said tools on one and the same machine, and to accomplish this the position or edge of the working-tool has to be set at different angles, in order to enable the workman to readily hold the shoe to its work, and it is desired, moreover, to have the edge-setter oscillate on its own axis instead of vibrating or having the pendulum motion.

To such ends my invention consists in the features of construction and combination of devices, hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of my improvement. Fig. 2 is a similar view showing the mechanism adjusted at a different angle. Fig. 3 is a top plan view of Fig. 1. Fig. 4 is a detail view of the edge-setter. Fig. 5 is a detail view of the shank-burnisher.

1 represents the table on which the oscillating and reciprocating mechanism is supported; 2, a bracket forming the journal-support for the driving-shafts.

3 represents a stationary bracket, of similar shape to bracket 2, and to which the latter, carrying the table, is adjusted.

4 represents holes into which the screws 5 tap, so as to hold the two firmly in any adjusted position.

6 represents a driving-shaft carrying the eccentric and vibrating the arm 7.

8 represents an oscillating arm, and 9 represents a stock to which the burnishing-tool is adjusted.

10 represents the beader, which is oscillated on the center of arm 11.

12 represents the heel-burnisher.

13 represents the working-face of the shank-burnisher; 14, the shank of the tool, which engages with the stock 9 and holds the tool in position.

15 represents the edge-setter; 16, the reversible stock, adapted to hold two different-shaped edge-setters. 17 represents the shank, which fits into the stock 9 for holding the two in position. By means of the adjusting-bracket 2, carrying the reciprocating mechanism, I am able to adjust this at different angles, so as to bring the heel-burnisher, the shank-burnisher, or the edge-setter at the desired angles for work, the beader 10 being attached to the arm 11, which is the center of oscillation, and is adapted to be used in any of the adjustable positions for beading. When the mechanism is adjusted in the position shown in Fig. 1, the oscillating arm 8 is vertical and in proper position for using the edge-setter or shank-burnisher and still allow of the use of the beader; but this position of the arm 8 is not adapted to the use of the heel-burnisher. When it is desired to use the heel-burnisher, the mechanism is adjusted in the position shown in Fig. 2; but this has not changed the relative position of the beader, but it may still be used for beading in this adjusted position. Thus I have a combined reciprocating mechanism adapted to be adjusted to the use of the varying finishing-tools required in shoe-finishing mechanism.

Having described my invention, what I claim is—

1. The combination of the swinging bracket

2, adjustable to different angles and provided with the supporting-table 1, the vibratory arm 7, and the oscillating arm 8, carrying a burnisher and connected with and operated by the vibratory arm, substantially as described.

2. The combination of the driving-shaft 6, having an eccentric, the swinging bracket 2, hung on the shaft, adjustable to different angles, and provided with the supporting-table 1, the vibratory arm 7, connected with the eccentric of the driving-shaft, and the oscillating arm 8, carrying a burnisher and connected with and operated by the vibratory arm, substantially as described.

3. The combination of the bracket 2, adjustable to different angles and having the supporting-table 1, the shaft 11, carrying a beader, the oscillating arm 8, carrying a burnisher and secured to the beader-carrying shaft, the vibratory arm 7, connected with the oscillating tool-carrying arm, and the driving-shaft 6, for operating the vibratory arm, substantially as described.

4. The combination, with a stationary bracket 3, of a swinging bracket 2, adjustable thereupon to different angles and carrying a table provided with a shaft having a beader and an oscillating arm having a burnisher and secured to said beader-carrying shaft, substantially as described.

In testimony whereof I have hereunto set my hand.

SIMON ROSS, JR.

Witnesses:
WM. E. BROOKS,
T. SIMMONS.