(No Model.)

M. DUDLEY.

SOLE BURNISHING MACHINE.

No. 265,947. Patented Oct. 17, 1882.

Fig. 1.

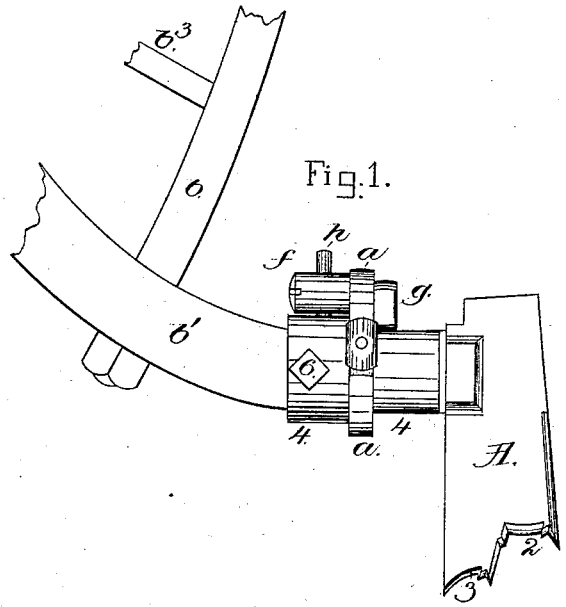


Fig. 3.

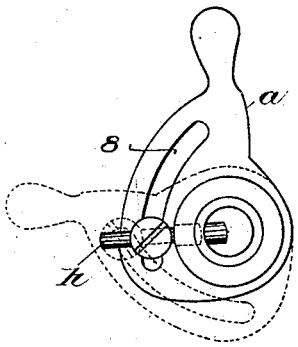


Fig. 2.

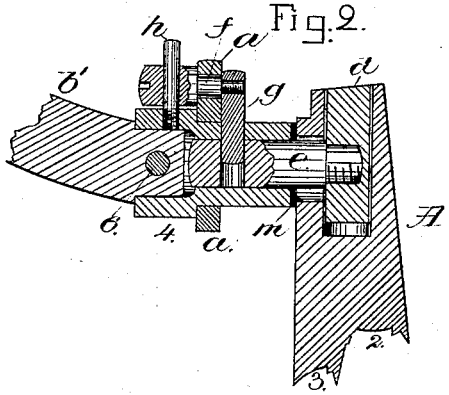
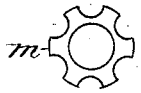


Fig. 4.



Witnesses.
Fred A. Powell.
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UNITED STATES PATENT OFFICE.

MYRICK DUDLEY, OF LYNN, MASSACHUSETTS, ASSIGNOR TO IRA B. KEITH, JOSIAH C. BENNETT, AND GEORGE E. BARNARD, ALL OF SAME PLACE.

SOLE-BURNISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 265,947, dated October 17, 1882.

Application filed August 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, MYRICK DUDLEY, of Lynn, county of Essex, State of Massachusetts, have invented an Improvement in Sole-Burnishing Machines, of which the following description, in connection with the accompanying drawings, is a specification.

The object of my invention is to so connect the burnishing-tool (a solid one) with its vibrating carrier that the tool, moved in the arc of a circle, may oscillate freely, as required, to enable its working-edges to follow the curved edge of the shoe or boot being burnished.

I have shown my invention as embodied in a solid iron having two working-surfaces—one of suitable configuration to burnish a sole along its side edges about the toe and fore part and the other the edge of the shank of the sole.

My invention consists essentially in a burnishing-machine tool or iron having an oscillating center plug and a laterally-extended stem, combined with a vibrating tool-carrying arm, a lever, and sliding pin to engage the said stem and hold the tool in place on said arm, yet permit the said tool to have an independent rocking movement or oscillation with relation to the said carrying-arm.

Figure 1 represents in side elevation a sufficient portion of a burnishing-machine to illustrate my invention; Fig. 2, a partial central section of Fig. 1; Fig. 3, a front view of the pin-moving lever and bearing-sleeve which holds it and receives the pin, the full and dotted lines showing the lever in its extreme positions; and Fig. 4, a detail showing a washer.

The rigid curved arm *b*, the lever *b'*, which carries the burnishing-tool, and the spring b^3 are the same as in my application No. 65,964, filed July 5, 1882, to which reference may be had.

The solid tool A has two faces, 2 3—the one, 2, to burnish and set the edge of the sole about the toe and fore part of the shoe, and the other, 3, to burnish the edge of the sole in the shank of the shoe.

The tool holder or sleeve 4, connected with the lower end of the arm *b'* by bolt 6, serves as a bearing for the cam-lever *a*, slotted at 8, (see Fig. 3,) to receive a bolt, *f*, one end of which is screwed into the sliding pin *g*, while the enlarged head of the bolt at the other side of the lever *a* is slipped over and slides on a guide-pin, *h*, erected on the sleeve 4. The turning of the lever *a* about the sleeve 4 causes the cam-slot 8 therein, it acting on the bolt *f*, to slide the pin *g* in the direction of its length, so that the said pin may be projected into a hole in the stem *e*, as shown in Fig. 2, or to completely withdraw it therefrom when it is desired to withdraw the stem *e* from the sleeve 4 to remove the tool A. As the sliding pin *g* is moved by the bolt and cam-lever the head of the screw moves on the guide-pin *h*.

A solid tool such as herein shown, to operate correctly, must be so held on its carrying-arm as to be free to turn or oscillate while following the curves of the sole-edge. To insure such movement the head of tool A is bored or otherwise made hollow to receive a loose plug, *d*, which is connected at one side with the end of the arm *b'*, the said connection, as herein shown, being made by means of a stem, *e*, fixed to the loose plug and extended out through the head of the tool into the end of the sleeve 4, carried by the lever *b'*; but it is obvious the converse of this construction would answer equally as well, the aim of my invention being to so connect the side of the tool A and lever or arm *b'*, which moves it, that the tool A may turn or oscillate somewhat about the plug *d* as a center while the tool is being carried by the said lever or arm in the arc of a circle described from a center at right angles to the axis of the plug. In practice the lever *b'* will be actuated from a rocking shaft, which may be as shown in my said application. The pin *g* serves as a fastening device to retain the burnishing-tool in position with relation to the lever *b'*.

A washer, *m*, of leather or equivalent material, or it may be of metal properly dished or concaved and pronged, as in Fig. 4, is interposed between the tool A and the end of the sleeve 4 to avoid clattering.

To remove the tool it is only necessary to turn the lever *a* and withdraw pin *g* from stem *e*.

I claim—

1. The burnishing-tool and its loosely-held plug and stem extended therefrom, and a vibrating lever or arm to actuate the said tool, combined with the tool holder or sleeve, cam-lever,

bolt, and sliding pin *g*, to operate as and for the purpose described.

2. The tool holder or sleeve 4, the slotted lever mounted thereon, the guide *h*, and bolt and sliding pin, combined with the burnishing-tool A, its loosely-held plug, and laterally-extended stem, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MYRICK DUDLEY.

Witnesses:
G. W. GREGORY,
B. J. NOYES.