

M. SIMON.

BOOT BLACKING APPARATUS.

No. 181,801.

Patented Sept. 5, 1876.

FIG. I.

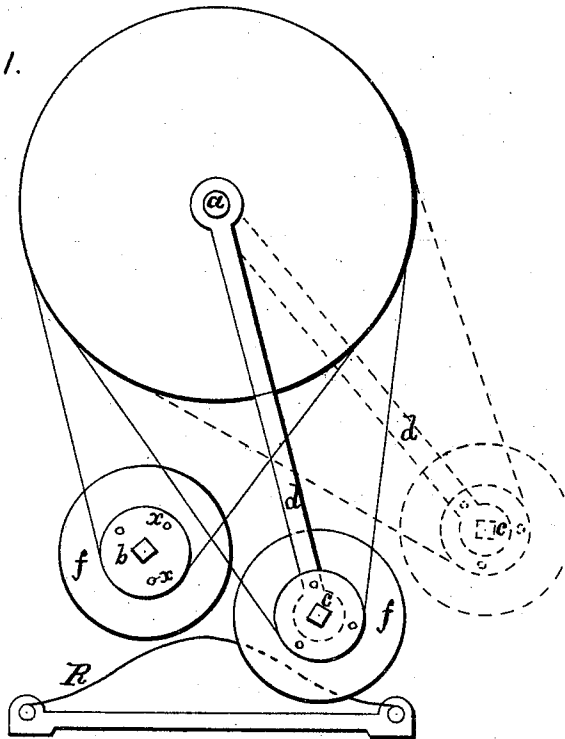
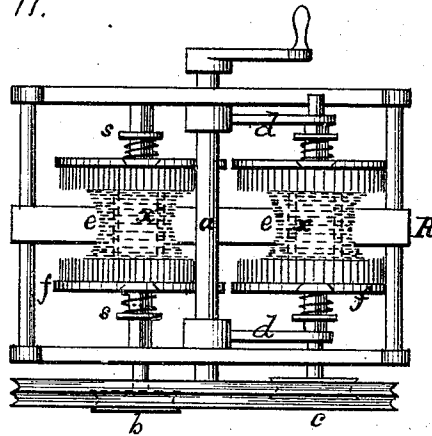


FIG. II.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN BOOT-BLACKING APPARATUS.

Specification forming part of Letters Patent No. **181,801**, dated September 5, 1876; application filed July 22, 1875.

To all whom it may concern:

Be it known that I, MARCUS SIMON, of New York, in the county and State of New York, have invented certain Improvements in Machines for Cleaning Boots and Shoes, of which the following is a specification:

The said improvements relate to machines for cleaning boots and shoes, composed of rotating or vibrating brushes, operated by a treadle or any other means for communicating power; and they consist, first, in combining a central cylindrical brush with two flat disk-brushes, held together by springs, and restrained by stops; second, in mounting the disk-brushes on the shaft with which they rotate, in such a way that they may assume an angular or oblique position; and, third, in mounting the said brushes on a frame, which vibrates from the driving-shaft of the machine as a center of motion.

These improvements may be combined in one machine, or they may be applied separately or together to any of the forms of machines to which they may be applicable.

Figure 1 represents a side elevation of a machine, in outline, with the said improvements, and with the side frames, which may be made in any convenient manner, removed to exhibit more clearly the relation of the parts. Fig. 2 is a plan of the said machine.

The crank-shaft *a* rotates the shafts *b* and *c* by means of suitable belts. The shaft *c* is mounted on the arms *d d*, which are hung on the shaft *a*, so that it may be swung to and from the machine, as indicated by dotted lines, without disturbing the tension or action of its driving-belt. Each of the shafts *b* and *c* carries a cylindrical brush, *e*, and two disk-brushes, *f*, and these latter slide on the shafts until their outward motion is restrained by the stops *s*. The three brushes are held together by the strips of india-rubber *x*, that pass through the central brush, and are secured to the disk-brushes on each side. The disk-brushes have conical holes for the passage of the shaft, which permits their being canted when required to fit the boot or shoe thrust between them. *R* is a spring-rest for the boot or shoe.

I claim—

The combination of the swinging frame *d*, the driving-shaft *a*, and the shafts *b* and *c* with the cylindrical brushes *e* and the disk-brushes *f*, mounted with flaring openings, and held together by the springs *x*, substantially in the manner and for the purpose described.

MARCUS SIMON.

Witnesses:

MATTHEW AUGUSTUS SOUL,
JOHN LAY.