(No Model.)

F. P. BUZZELL.

REVOLVING PAD FOR CLEANING THE SOLES OF BOOTS OR SHOES.

No. 351,737. Patented Nov. 2, 1886.

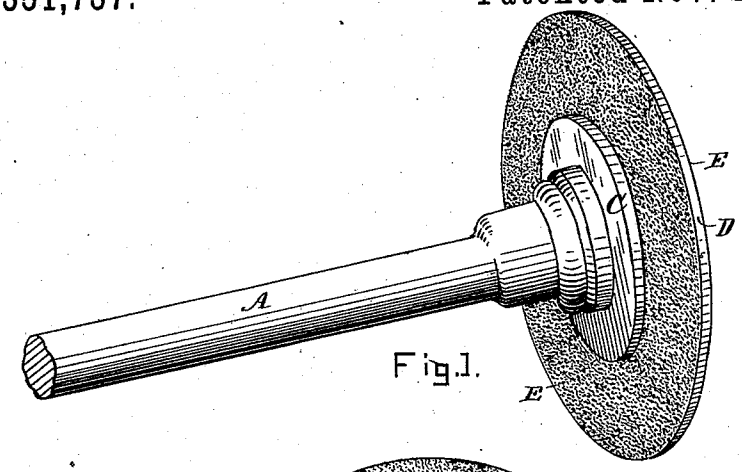


Fig. 1.

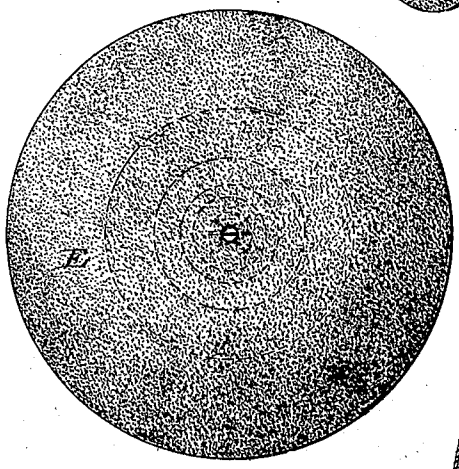


Fig. 2.

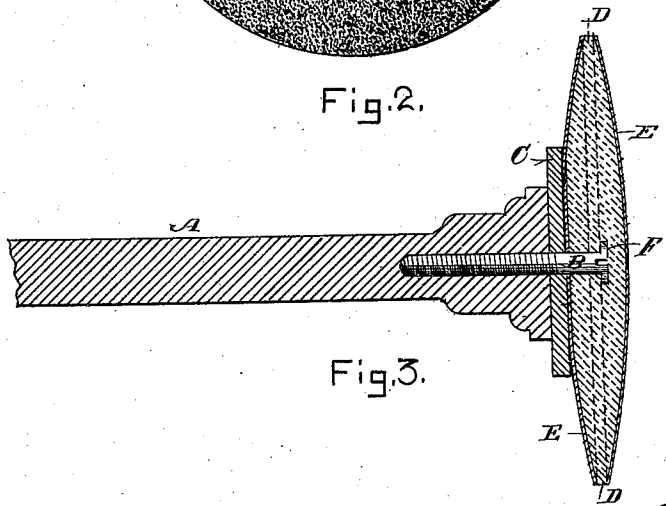


Fig. 3.

Witnesses.
Chas. Allen Taber.
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UNITED STATES PATENT OFFICE.

FRANK P. BUZZELL, OF LYNN, MASSACHUSETTS.

REVOLVING PAD FOR CLEANING THE SOLES OF BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 351,737, dated November 2, 1886.

Application filed September 28, 1885. Serial No. 178,352. (No model.)

To all whom it may concern:

Be it known that I, FRANK P. BUZZELL, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Revolving Pads for Cleaning the Soles of Shoes, and for other Similar Purposes, of which the following is a specification.

My invention relates to an improvement in centering and attaching such pads to the revolving machinery, in economy of construction and use, and in the quality of work performed; and the objects of my invention are, first, to secure a simple method of attaching and detaching the pads; second, to secure economy by using both sides, instead of only one side, as now; and, third, to secure a better quality of work by sure central attachment and accuracy of the circle of the revolving edge. I attain these ends by the implement illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of the rear of the pad and its attachments. Fig. 2 represents a plan of the front or face, and Fig. 3 is a longitudinal section.

Similar letters refer to like parts in all the drawings.

To make the pads I take two circular pieces of sand-paper or emery-cloth, E E, of the same size, (usually about three and a half inches in diameter,) and in the center of each I cut a circular hole of about three-eighths of an inch in diameter. I then take a circular piece, D, (one or more,) of felt or other similar semi-elastic substance, and punch out a hole of about one-eighth inch in diameter in the exact center of the felt. This felt may be of much cheaper quality than that required to be used in any of the pads now in the trade, and may be much thinner and less expensive on that account than most of those now used. I then glue one piece of the emery or sand paper upon each side of the felt, taking care to keep the holes and edges of the cloth or paper in line. But little glue is needed, and that should be used near the edge. When dry, the pad is ready for use. It is shown in Fig. 2.

When the pad is to be used, it is attached to the revolving spindle A by means of a screw or similar device, B, in Fig. 3, which passes through the hole in the center of the pad, the head resting against the felt, (*b* in Fig. 3.) The outer cloth or paper will cover the head sufficiently for all practical purposes, as the center of the pad is at rest when revolved and has no abrasive action, and the head sinks out of the way into the felt.

When one face of the pad has become worn, or the edge injured in its rapid motion, the pad is detached by taking out the screw B and reversed, using the other face as before. Against the back of the pad I find it desirable to use a piece of thin leather, like card-leather C, of about two inches in diameter, as shown in Figs. 1 and 3. The outer covering of the pad as to fineness of the abrasive material, as to whether this material be sand or emery, and as to whether this material be on cloth or paper, may be varied to suit different kinds of work without reference to my invention.

The common kind of screws may be used; but I prefer to use those with thin flat heads.

My double reversible pad is the best form of construction; but I do not wish to be limited to that, as a part of my invention is the method of attaching a single or double faced pad to the spindle, so that the revolving edge may be an exact circle.

What I claim, and desire to secure by Letters Patent, is—

In a buffing-pad, the combination of a circular piece of felt, D, two circular pieces of sand-paper, E E, one piece of sand-paper being attached to each side of the felt by glue, with a smaller circular piece of leather, all having a central hole for attachment to a revolving spindle, as set forth.

FRANK P. BUZZELL.

Witnesses:
CHAS. ALLEN TABER,
CHARLES G. DYER.