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HAND POLISHING MACHINE FOR SHOES

Original Filed Jan. 22, 1926

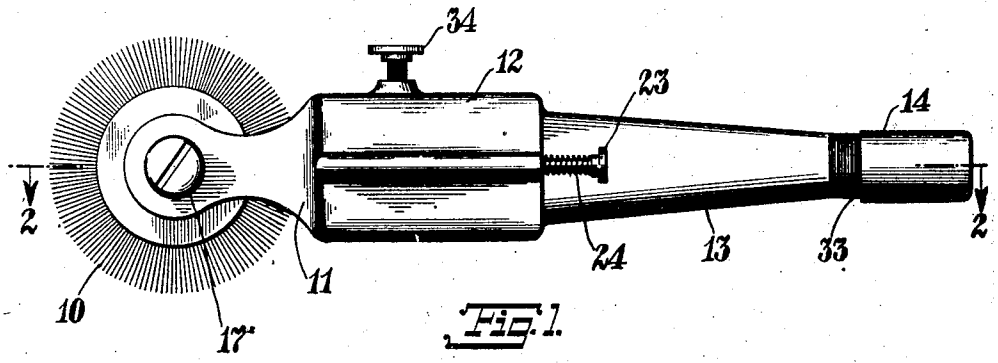


Fig. 1.

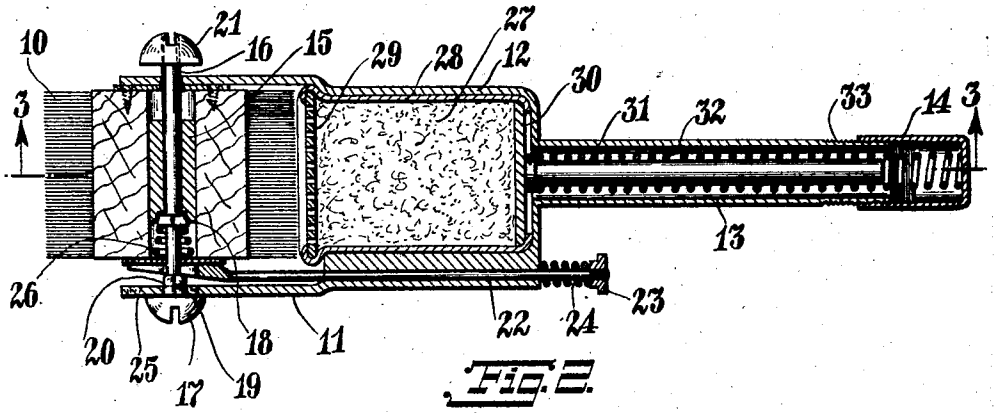


Fig. 2.

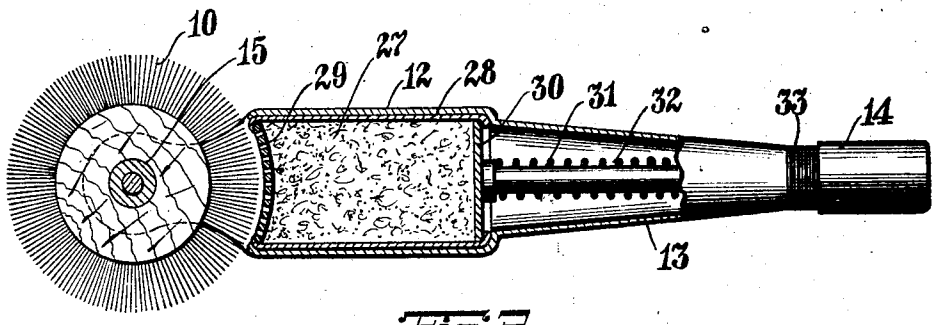


Fig. 3.

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UNITED STATES PATENT OFFICE.

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HAND POLISHING MACHINE FOR SHOES.

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This invention relates generally to shoe brushes, the invention having more particular reference to a novel type of shoe brush. The invention has for an object the provision of an improved shoe brush which may be used to spread the polish on the shoe and also to polish the shoe. A further object is to provide a shoe brush having a container to hold the polish, and a means of automatically applying same to the shoe.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawing is a side elevational view of my improved shoe brush.

Fig. 2 is a sectional view thereof, taken on the line 2—2 of Figure 1.

Fig. 3 is a similar view, taken on the line 3—3 of Figure 2.

As here embodied my improved shoe brush comprises briefly a cylindrical brush, 10, such as is suitable for applying polish to shoes and for polishing same, which is both rotatively and rigidly held in the extension 11 of the body element 12 as will be hereinafter described in detail, which is suitably attached thereto or may be integral therewith, and a handle 13 to which is threadedly attached the cap 14.

Referring in particular to the method of holding the cylindrical brush 10 in the extensions 11, as illustrated in Figure 2 of the accompanying drawing. The cylindrical brush 10 has an axial aperture to accommodate the bushing 15, which is a tight fit therein and has an axial aperture to slidably and rotatively accommodate the spindle 16 having a suitable head 17, and a tapered square portion 18, the said bushing 15 also having a tapered square axial aperture therein to accommodate the tapered square portion 18. The spindle 16 is also provided with a second tapered square 19 adjacent to its head 17, one of the extensions 11 being provided with a tapered square aperture 20 to accommodate the second tapered square portion 19. The spindle 16 being threaded at one extremity to accommodate the removable head 21. In Figure 2, I have shown the above referred to mechanism in its normal position; the cylindrical brush 10 being held rigidly in the extensions 11, by means of the rod 22, slidably mounted in the body element 12, having a suitable knob 23 or handle, attached thereto at one extremity, and a superimposed spring 24 to hold the said rod 22 in a normal or disengaged position as shown on the accompanying drawing above referred to; and a forked tapered element 25 when the said rod 22 is forced downward by means of pressure on the knob 23, the forked tapered element will engage with the second tapered square portion 19 of the spindle 16, and disengage the tapered square portion 18 and the second tapered square portion 19, so that the cylindrical brush 10 may be turned or rotated to any desired relative position. When the said rod 22 is released the superimposed spring 24 will return the said rod 22 to its normal position, likewise the superimposed spring 26 will return the spindle 16 to its normal position, and the cylindrical brush 10 will again be rigidly held.

The polish 27, in cake form, is placed in the container 28 which is a slidable fit in the body element 12, has a perforated lower end 29 of radial contour to suit the curvature of the cylindrical brush 10, the upper end 30 of the container 28 is a slidable fit therein, to permit of placing the polish 27 therein and is also a slidable fit therein, and has suitably attached thereto a shank 31 located in the handle 13, as a guide for the superimposed spring 32. The said construction being such as will apply the polish 27 to the brush 10, force the polish 27 and the container 28 against the surface of the cylindrical brush in contact with lower end 29, by means of screwing down the cap 14 on the threaded portion 33 of the handle 13, the said threaded portion having preferably a threaded of coarse pitch to facilitate the manipulation as here described. As a means of holding the said container 28 in any desired position, I have provided a thumb screw 34 threaded in the body member 12.

It will be understood that my improved shoe brush may be made of any suitable materials, the cylindrical brush 10 being made of wood preferably and having suitably attached thereto at its periphery depending bristles, the other parts thereof being made preferably of metal.

While I have above described the preferred form construction and arrangement of the several elements employed, it will be understood that the device is nevertheless,

susceptible of considerable modification therein, and I therefore reserve the privilege of resorting to all such changes as may be fairly embodied within the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim as new, and desire to protect by Letters Patent of the United States is as follows:—

1. A shoe brush comprising a rotatably mounted cylindrical brushing member, a polish dispenser adjacent said brushing member, adapted to eject polish upon said brushing member, and means for locking said brushing member against rotation in predetermined position.

2. In a shoe brush, the combination with a polish dispenser, of a rotatably mounted roller brush head journalled adjacent the discharge end of said dispenser, means comprising a tapered square lug and complementary seat for locking said brush head in a fixed position to prevent the exposed portion thereof from contacting with the polish of the dispenser, and means for releasing said locking mechanism to permit rotation of said brush head to expose a polish covered surface thereof.

3. In a shoe brush head the combination with a polish reservoir, of means for discharging polish therefrom, a roller brush rotatively mounted with its cylindrical surface adjacent the discharge end of said reservoir, means for locking said brush head to prevent the polish covered surface thereof from being exposed during the buffing operation, and means comprising a spring returned wedge for releasing said locking means to permit rotation of the brush head for conveying polish from said reservoir to the surface being polished.

In testimony whereof I have affixed my signature.

JOSEPH SKRZECZKOWSKI.