Aug. 7, 1923

1,464,336

A. POLANSKY

SHOE POLISHING SET

Filed Feb. 27, 1922

FIG. 1

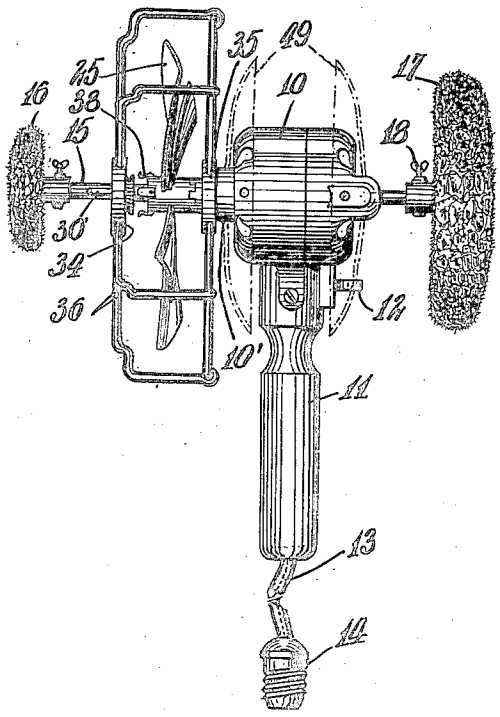
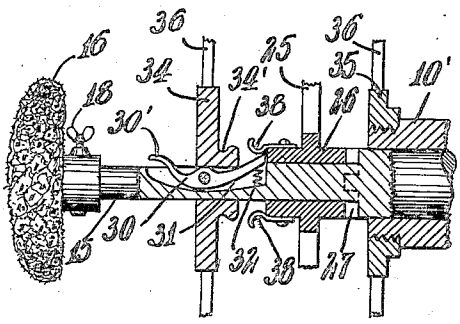


FIG. 2



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UNITED STATES PATENT OFFICE.

ARPAD POLANSKY, OF DOUGLASTON, NEW YORK.

SHOE-POLISHING SET.

Application filed February 27, 1922. Serial No. 539,349.

To all whom it may concern:

Be it known that I, ARPAD POLANSKY, a citizen of Hungary, residing at Douglaston, in the county of Queens and State of New York, have invented certain new and useful Improvements in Shoe-Polishing Sets, of which the following is a specification.

This invention relates to a shoe polishing set, and it has for a general object the provision of a novel and simple device comprising motor driven brushes for applying the polishing material to the shoe, and then polishing the same.

A further object is to provide, in combination, a fan which may be used for drying the polishing material on the shoe or for any other desired purpose.

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

Fig. 1 is a side view of the shoe polishing device.

Fig. 2 is a fragmentary axial section.

As here embodied my improved shoe polishing apparatus comprises a small electric motor 10 which is mounted on one end of a suitable handle 11. Within this handle is mounted a rheostat switch of suitable construction for controlling the current to the motor, the handle of this switch being shown at 12. The current to the motor comes through suitable wires 13 which are led through the handle and which are provided with a plug 14 of ordinary construction for connection to a lamp socket.

The shaft 15 of the motor is adapted to have mounted on opposite ends thereof a pair of rotary brushes 16 and 17 respectively, the brush 16 being preferably comparatively small to facilitate its engaging in a box or the like containing a polishing material. These brushes may be fixed on the shaft by means of thumb screws 18. The brushes may be made of a suitable solid core 19 over which is placed a felt facing 20 the polishing brush 17 having also a fleecy covering 20 thereon, this covering extending backward over the edges of the brush as shown, permitting the edge of the brush to be applied to the shoe, and thus facilitating polishing under the instep. The cores 19 may be fixed on hubs 22 which receive the shaft ends and through which the thumb screws 18 are threaded.

In connection with my improved shoe polishing apparatus I provide a rotary fan 25 of ordinary construction which may be mounted on the motor shaft behind the brush. The hub 26 of this fan slidably surrounds the shaft 15 and is formed on one end with a clutch face adapted to engage a complementary clutch element on the shaft, the engaged clutch parts being indicated at 27.

The fan hub 26 is held in operative engagement with the shaft 15 by a latch 30 pivoted in a slot 31 in the shaft and having its inner end projected up behind the hub by a spring 32.

A wire cage is provided for the fan 25 and comprises the axially spaced hubs 34 and 35 on which are fixed suitable wire members 36. The cage is mounted on the casing of motor by screwing the hub 35 on the hub 10′ of the motor casing, the other hub 34 of the fan closely encircling the shaft 15. When the fan is not in use it may be removably attached to the hub 34 by means of spring fingers 38 fixed on the fan hub 26 and engaging over a peripherally grooved portion 34′ of the hub 34. The latch 30 extends through the hub 34 and has a nail piece 30′ on its outer end which is lifted when the other end of the latch is to be depressed.

The use of my improved apparatus will be apparent from the above description. The polish is applied by brush 16, which is dipped into the proper one of the boxes containing the polish, while the finish is applied by brush 17. As will be apparent, the fan 25 may be removed if desired, or operated without the brushes. In removing the fan the nail piece 30′ is lifted to depress the latch 30. The fan hub 26 is then moved backwardly to free it from clutch engagement with shaft 15 and is engaged with the cage hub 34 by the fingers 38. The cage may then be unscrewed, the fan maintaining its proper axial relation, thus facilitating remounting thereof. As indicated at 49 I may provide a pair of bell-shaped shields which I mount on the motor to prevent material from the brushes passing through the usual heat radiating openings in the casing.

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. In combination, a motor including a casing and a shaft, a fan slidable on said shaft and adapted to have clutch engagement therewith, a cage for said fan having a pair of hub elements one of which is attached to the motor casing and the other of which freely encircles the said shaft, and means for removably attaching said fan to said last named hub element and out of clutch engagement with the said shaft.

2. In combination, a motor including a casing and a shaft, a fan slidable on said shaft and adapted to have clutch engagement therewith, a cage for said fan having a pair of hub elements one of which is attached to the motor casing and the other of which freely encircles the said shaft, and means for removably attaching said fan to said last named hub element and out of clutch engagement with the said shaft, said means comprising spring fingers on said fan adapted to engage in a peripheral groove in the last named hub element.

3. In combination, a motor including a casing and a shaft, a fan slidable on said shaft and adapted to have clutch engagement therewith, a cage for said fan having a hub element detachably mounted on the motor casing, and means for removably attaching said fan to said cage co-axially thereto, and a latch mounted in a slot in said shaft for holding said hub in clutch engagement therewith.

In testimony whereof I have affixed my signature.

ARPAD POLANSKY.