

[54] POLISHING DEVICE

[72] Inventor: David C. Lewis, 6 Sandy Lane, Petersham, near Richmond, England

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Primary Examiner—Edward L. Roberts  
 Attorney—Brooks, Haidt & Haffner

[57] ABSTRACT

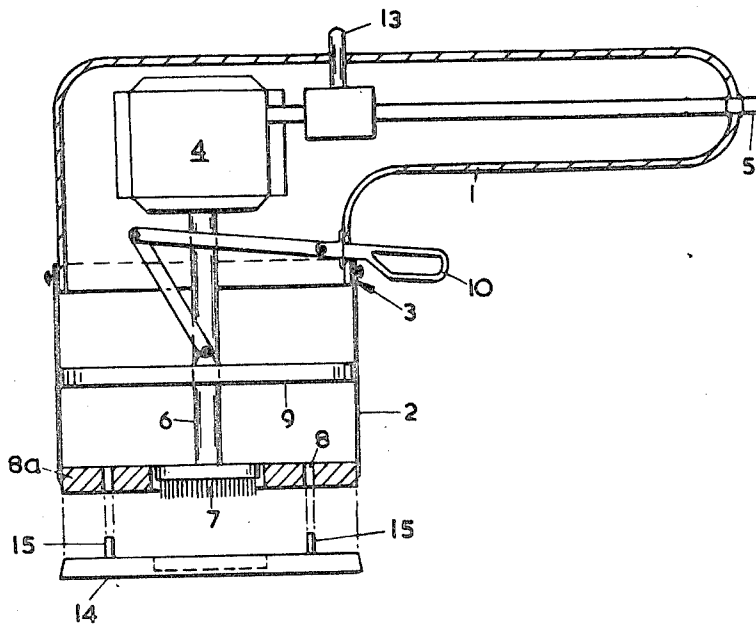
An electrically driven polishing device have a rotatable polisher, a container for polish and a polish spreader with means for expressing controlled amounts of polish from the container onto the spreader.

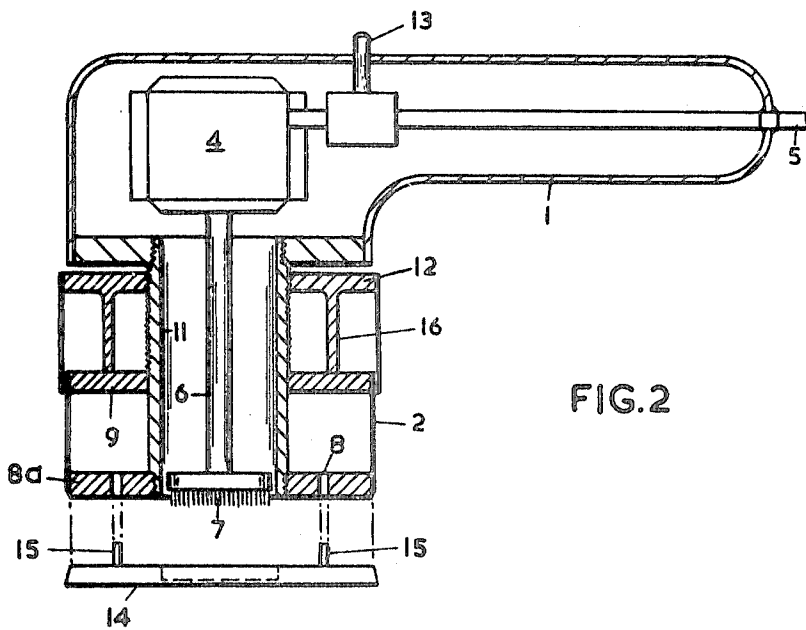
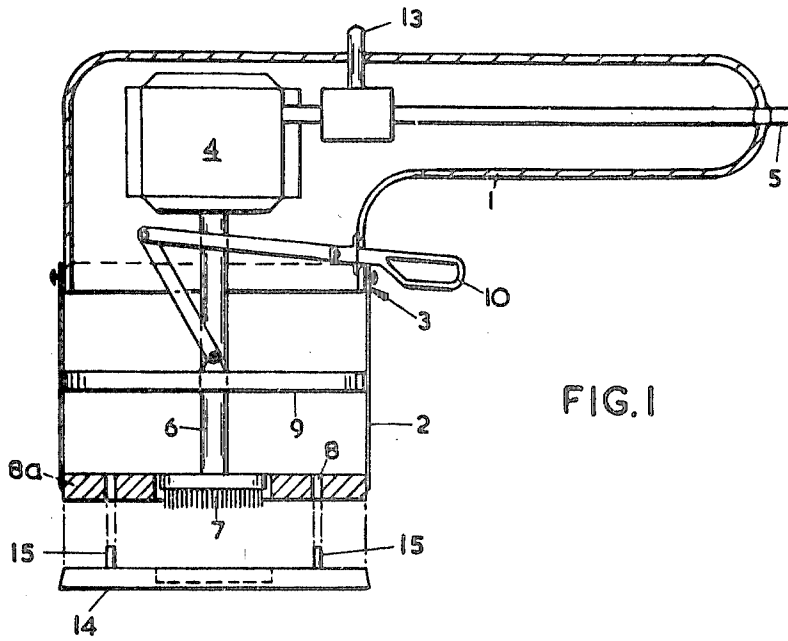
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8 Claims, 2 Drawing Figures





## POLISHING DEVICE

This invention is concerned with a small electrically driven polishing device which is operated by hand.

According to the invention the polishing device comprises a case housing a small electric motor, on the spindle of which a circular brush or other polishing device or material is mounted, and surrounding the said spindle a container for polish, and, connected thereto, a polish spreader which is not rotated by the motor, and means for expressing controlled amounts of polish from the container onto the outer surface of the spreader.

The case may be of such dimensions and so shaped that it encloses all the parts of the device except the outer faces of the brush and polish spreader. It is conveniently in two parts which are held together by a clip, screw threads or in any other convenient way. This facilitates the refilling or replacing of the polish container. Alternatively the case may only enclose part of the device, for example the motor. In this case a connector must be provided for uniting the other parts with the case. For example the connector may be a threaded tube which screws into the case at one end and into or around the polish container at the other.

Various ways of expressing polish from the container can be used. For instance a plunger in the container can be operated by a screw or lever to eject polish through holes in the end of the container and in the polish spreader to the outer surface thereof. Alternatively the container may have an end which can be screwed into the interior of the container and so force polish out at the other end near to the brush where the polish spreader is located. The spreader comprises a pad of sponge rubber, plastic material or cloth and holes through the pad connect the polish holder with the outer surface of the pad, which is slightly below the end surface of the brush.

In use the brush alone can be used but when it is desired to add polish, the paste ejecting device is operated to force the desired amount of polish out onto the outer surface of the pad near the brush. This polish is applied to the shoe or other article being polished, by simply rubbing it on, and then polishing with the rotating brush is resumed.

The motor can be operated by means of battery or mains and a switch is provided in a suitable position so that when the device is held in the hand the switch can easily be moved by thumb or finger.

If desired, cooling louvres may be let into the walls of the case or a small fan can be used for cooling purposes. The polish is inserted into the container in any convenient way, for instance by unscrewing the two parts and inserting the polish, covering it with a plate or washer against which the projecting parts bear as the ejector is moved.

The brush can be made easily removable so that various kinds of brush can be fitted quickly and easily to deal with various requirements. A metal or plastic cap can be provided if desired to cover the polishing brush and polish-applying surface when not in use.

Normally the dimensions of the parts are such that the brush projects a fraction of an inch beyond the circular spreader pad, which surrounds it. However, means are provided whereby the faces of the brush and the pad can be made level with each other when it is desired to apply polish from the pad onto an article such as a boot or shoe which it is desired to polish. For example, one or two plungers can be provided at the side of the polish container which act upon a washer or plate and compress the polish so that some of it is forced through the holes in the pad onto its outer surface and at the same time force the container and its attached pad away from the case slightly so that the outer surface of the pad comes

level with the end of the central brush.

The device is suitable for polishing footwear of all kinds and other leather articles. It may also be used for polishing articles made of other materials such as metal or wood. If desired a stiff brush may be attached to an outer part of the case which can be used for removing mud, clay or other stubbornly adhering dirt, before applying the polish and polishing the article.

The accompanying drawings show two designs of polishing devices according to the invention.

In FIG. 1 the case of the device consists of two parts, 1 and 2 which are clipped together at 3. The part 1 contains a motor 4 driven by current supplied through a mains lead 5 in which a switch 13 is provided. From the motor 4 a spindle 6 is driven and on the spindle a brush 7 is mounted. The spindle projects into part 2 and the ends of the bristles of the brush project slightly beyond the end of the same part. Part 2 also contains the paste which is pressed out of the part 2 through holes 8 onto the outer surface of applying pad 8a, by means of a washer or plunger 9 which can be moved down into part 2 by means of a lever system 10 which can be moved as required by the user. A cap 14 is provided to cover the brush and pad when not in use. It carries projections 15 which fit into the holes 8.

FIG. 2 shows a similar device with like parts bearing the same reference numbers. In this case, however, the parts 1 and 2 are secured together by means of connector 11 onto which they are screwed. Paste-ejecter ring 12 has a depending flange 16 and when ring 12 is screwed down, flange 16 acts on washer or plunger 9 which in turn forces paste out through holes 8 on the outer surface of the applying pad 8a.

I claim:

1. A polishing device comprising a case housing a small electric motor having a spindle, a circular polishing device mounted on said spindle and extending from said case for engaging and polishing an article to be polished, a polish spreader mounted on said case in stationary relation with respect thereto and with respect to said spindle, said spreader having a polish spreading surface facing in the same direction as said polishing device and extending around said polishing device but with said polishing device protruding therefrom, a polish container mounted adjacent said spreader and at the side thereof opposite from said surface, said container extending around said spindle, said spreader having a plurality of holes therein extending from said container to said surface for conveying polish from said container to said surface, said holes being spaced radially outwardly of said polishing device, and means for expressing controlled amounts of polish from said container through said holes.

2. A device as claimed in claim 1, wherein the case comprises two parts, one of which houses the motor and the other of which contains the polish, the two parts being secured together by a connecting device.

3. A device as claimed in claim 1, wherein said means for expressing controlled amounts of polish comprises a plunger in said container in spaced relation to said holes and means for actuating said plunger.

4. A device as claimed in claim 1, wherein said polishing device is a circular brush.

5. A device as claimed in claim 1, wherein said spreader is a pad of relatively soft material.

6. A device as claimed in claim 5, wherein said soft material is cloth.

7. A device as claimed in claim 5, wherein said soft material is sponge rubber.

8. A device as claimed in claim 5, wherein said soft material is a synthetic plastic.

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