Feb. 23, 1943. G. R. SCHULTZ 2,311,879

POLISHING UNIT

Filed March 26, 1941 2 Sheets-Sheet 1

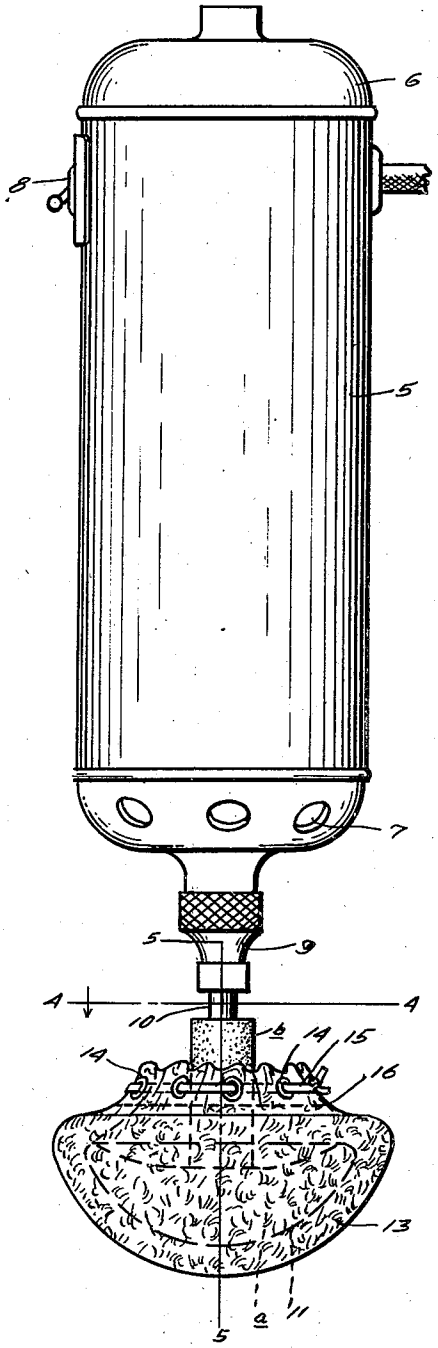


Fig. 1.

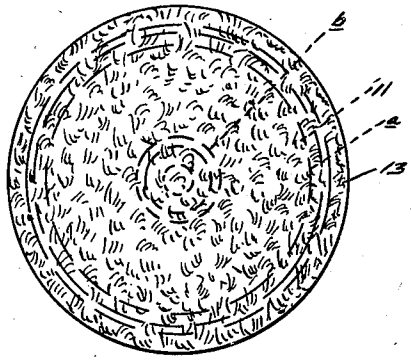


Fig. 2.

Inventor

Gregory R. Schultz

By Clarence A. O'Brien

Attorney

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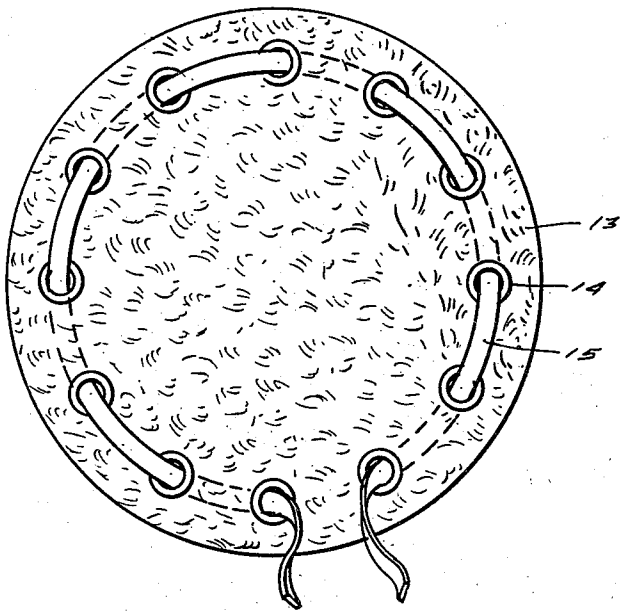


Fig. 3.

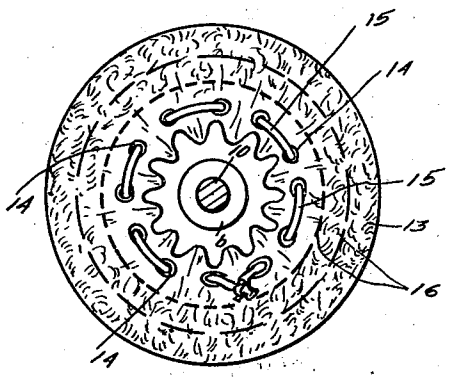


Fig. 4.

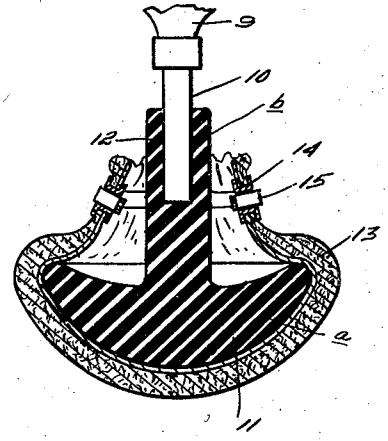


Fig. 5.

Inventor

Gregory R. Schultz

By Clarence A. O'Brien

Attorney

Patented Feb. 23, 1943 2,311,879

UNITED STATES PATENT OFFICE

2,311,879

POLISHING UNIT

Gregory Robert Schultz, Marinette, Wis.

Application March 26, 1941, Serial No. 385,358

1 Claim. (Cl. 15—97)

This invention relates to new and useful improvements in polishing devices and more particularly to a power driven hand implement, such as can be used in polishing shoes, boots and various other items.

The principal object of the present invention is to provide a power driven polishing unit wherein the polishing element can be conveniently removed and replaced whenever the occasion demands.

Another important object of the invention is to provide a polishing unit which will afford a quick and uniform polishing action which will permit the polishing of shoes, boots and other items more rapidly than is now possible with conventional means.

Other objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:

Figure 1 represents a side elevational view of the unit.

Figure 2 is an end elevational view looking toward the polishing element.

Figure 3 is a plan view of the polishing element.

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 1.

Figure 5 is a sectional view taken substantially on the line 5—5 of Figure 1.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes an elongated housing containing a motor 6 and it is preferable that this housing contain a cooling fan or the like for expelling warm air generated by the motor through opening 7. A switch 8 is mounted on the housing 5 for controlling the motor 6. A suitable packing gland 9 is provided on the end of the housing 5 through which the armature shaft 10 of the motor 6 protrudes.

The polishing means consists of a mushroom-shaped body 11, preferably of semi-hard rubber, the same consisting of a hemispherical-shaped head *a* and a stem *b*. The stem *b* has a bore 12 therein of a diameter slightly less than the diameter of the armature shaft 10, so that the stem will have to be forced on to the armature shaft 10 where it will be held frictionally and rotate with the shaft 10 except when undue pressure is placed on the polishing element, on which occasion the shaft 10 will simply rotate in the stem *b*.

The polishing element consists of a disk 13 preferably of sheep's wool which is provided adjacent its peripheral portion with a multiplicity of equi-distantly spaced eyelets 14. Trained through these eyelets 14 is an elastic tape 15 or the like, the end portions of which can be knotted as shown in Figure 1 when the disk 13 has its edge portions drawn together as shown in Figure 1, thus covering the head *a* and a portion of the stem *b*. It is preferable that this gathered portion of the disk 13 be stitched as at 16 to reinforce the disk and take some of the strain off of the eyelets 14 and tape 15.

In using this polishing means for polishing shoes, several of the mushroom-shaped bodies 11 with the polishing elements 13 secured thereon in the manner above stated can be held at hand for different colored shoe polish.

It can be seen that these polishing means can be readily exchanged on the armature shaft 10 and when a polishing disk 13 becomes so worn that it can be no longer used, it can be readily cut off of the body 11.

In placing the polishing element 13 on the body 11, it is preferably desirous to place some glue on the head so that the polishing element will adhere to the head, thus eliminating any tendency of the polishing element to slip or shift on the head.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

In a polishing device, a driven shaft, a solid mushroom-shaped element of resilient material carried by said shaft and forming a stem and a head on the stem, said stem being axially bored to fit over said end of the shaft and being sleeved thereover with a friction fit, said head having a convex outer face and a concave inner face, said faces converging toward the edge of the head and a sheet of polishing material folded over said head with its edge gathered around said stem.

GREGORY R. SCHULTZ.