Aug. 12, 1930. A. N. NEWMAN 1,773,077

POLISHING APPARATUS

Filed May 22, 1928

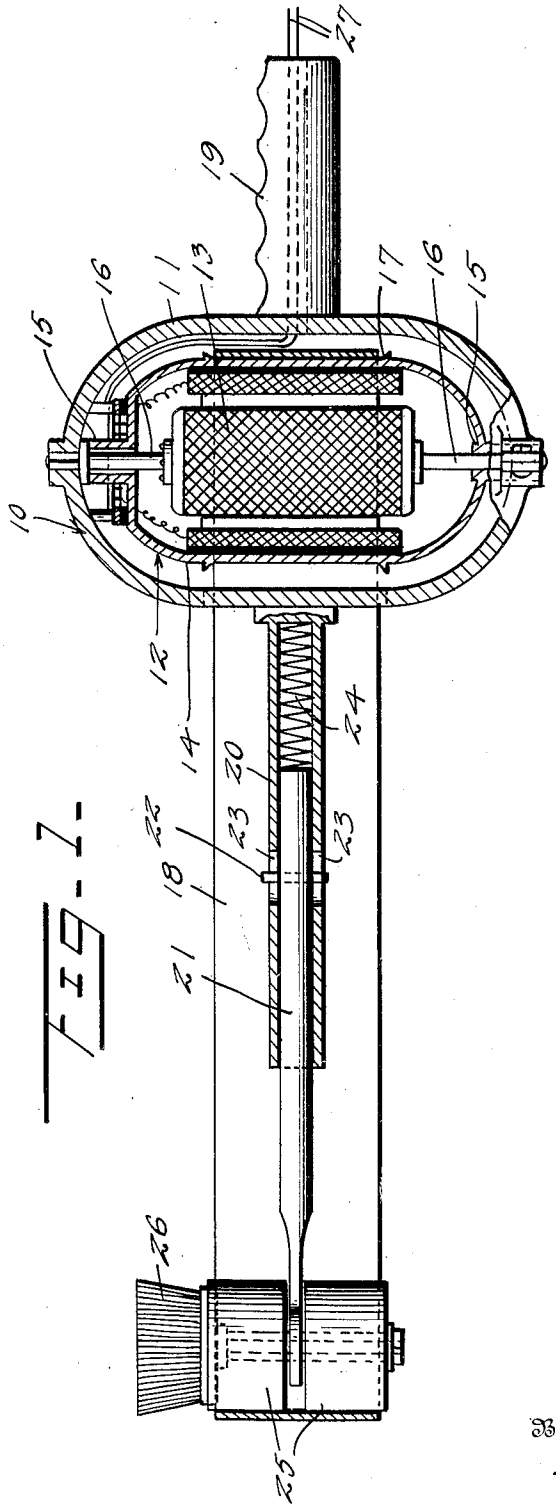


FIG. 1.

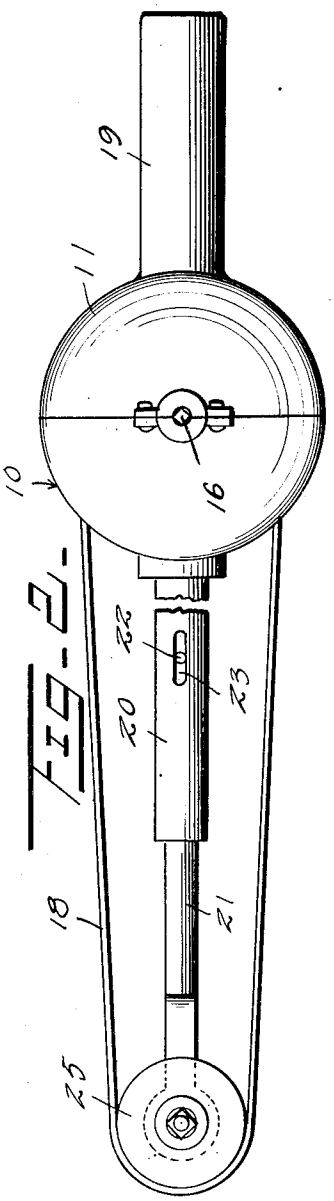


FIG. 2.

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UNITED STATES PATENT OFFICE

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POLISHING APPARATUS

Application filed May 22, 1928. Serial No. 279,754.

This invention relates to polishing apparatus and more particularly to a device of this character which is portable and may be conveniently employed both in the cleaning and polishing of various articles.

An important object of the invention is to provide a device of this character which is light in weight and accordingly readily manipulatable and which is of such character that it may be comparatively cheaply constructed.

A still further object of the invention is to produce a device of this character which may be readily and cheaply manufactured and which is so simple in its construction that it may be very readily repaired.

These and other objects I attain by the construction shown in the accompanying drawing, wherein for the purpose of illustration is shown a preferred embodiment for my invention and wherein:—

Figure 1 is a longitudinal sectional view through polishing apparatus constructed in accordance with my invention;

Figure 2 is a side elevation thereof.

Referring now more particularly to the drawing, the numeral 10 generally designates a casing having a removable section 11 permitting insertion to and removal from the casing of a motor 12. This motor 12 has a stationary armature 13 and a rotating outer casing 14 supporting the usual field magnet. This outer casing is mounted in suitable bearings 15 carried by an extension 16 of the armature 13 and has its exterior centrally formed as a pulley, as indicated at 17. The wall of the casing 10 has slots for the passage of a polishing belt 18 of any suitable material such as cloth or the like and passed about this pulley.

The casing 10 has secured thereto at one end a handle 19 and at its opposite end has secured thereto a telescopic support formed in two sections 20 and 21, relative longitudinal movement of which is limited by a pin 22 carried by the section 21 and operating in a slot 23 formed in the section 20. A spring 24 constantly urges the sections to the limit of their greatest extension and the section 21 has mounted upon the outer end thereof a pulley 25 which is preferably provided with unit friction bearings. This pulley receives the opposite end of the belt 18 and the belt is maintained under tension by the spring 24. One end face of the pulley may, if so desired, be provided with a brush 26 for use in cleaning various articles. Feed wires 27 may be conveniently connected with the device through the handle 19.

While I have above described my invention as being particularly adapted for use in cleaning shoes, it will, of course, be obvious that this apparatus can be adapted for use in cleaning furniture or polishing metals or other materials.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. A hand operated polisher, comprising a motor having a portion thereof formed to provide a pulley, a casing for said motor, a handle extending from said casing, a two part arm including an annular sleeve portion and an outer portion slidably extensible into the sleeve, said sleeve portion being secured to said casing opposite said handle, said casing having slots therethrough upon opposite sides of the arm, means within said sleeve bearing against the outer portion thereof for normally urging the same outwardly, a pulley body rotatably mounted upon the outer end of said arm, and a belt surrounding and connecting said pulleys and passing through the slots of the motor casing, said belt constituting a polishing or burnishing body.

2. A hand operated polishing device, comprising a motor including a rotatable portion formed to provide a pulley, a casing for said motor, a handle carried by the casing, an arm consisting of two portions, one thereof formed to provide a sleeve for slidably receiving the other portion, said sleeve being secured to the casing opposite the handle, means for permitting limited movement of said other portion in the sleeve, resilient means in the sleeve normally urging said other portion out-

wardly, a two part pulley mounted upon the outer end of said other portion, said pulley parts being arranged upon opposite sides of the supporting arm, a belt connecting said pulleys, and a polishing brush carried by one of said pulley parts.

In testimony whereof I hereunto affix my signature.

ALBERT N. NEWMAN.