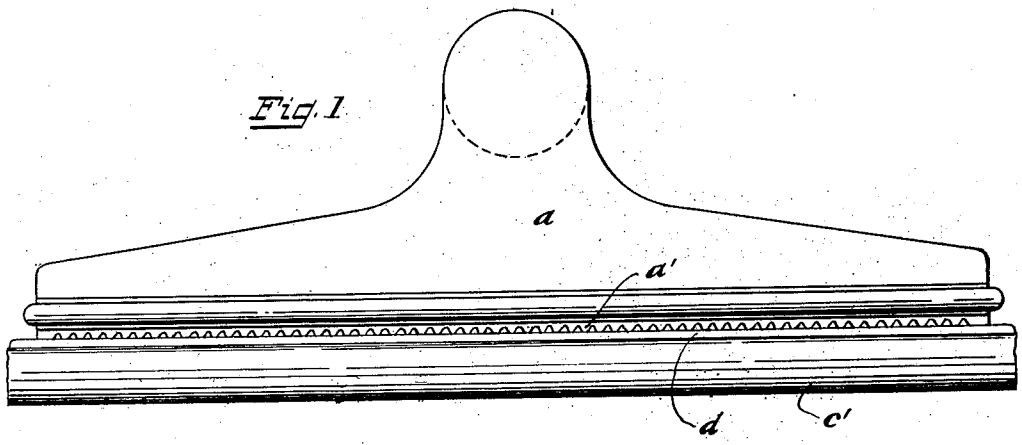
June 9, 1931. C. B. LAWRENCE 1,809,302

FLOOR POLISHING DEVICE

Filed Feb. 24, 1928

Fig. 1



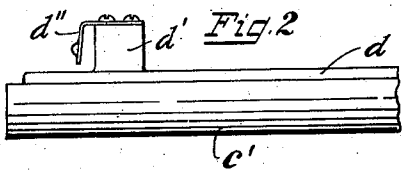


Fig. 2

Fig. 3

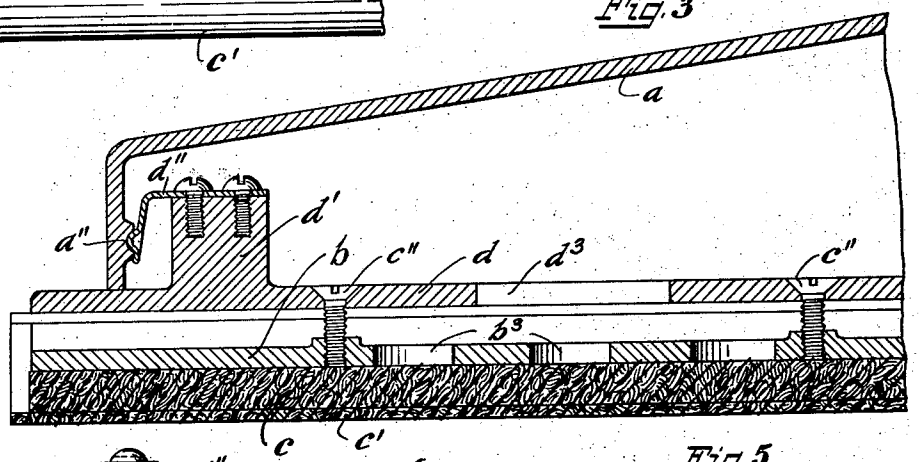


Fig. 4

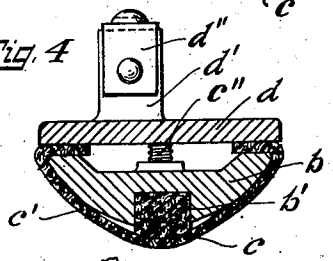


Fig. 5

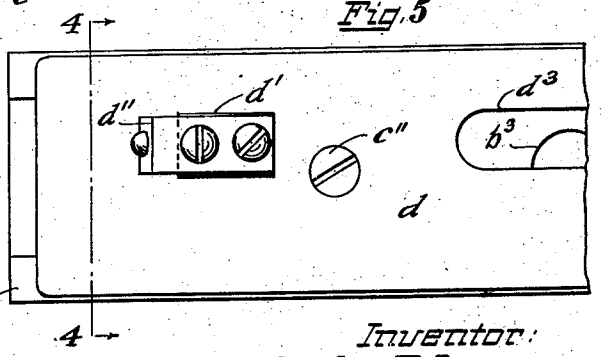
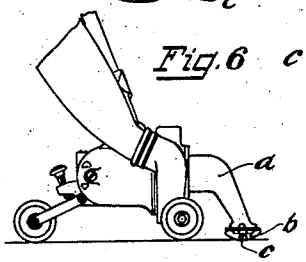


Fig. 6



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Patented June 9, 1931 1,809,302

UNITED STATES PATENT OFFICE

CHARLES B. LAWRENCE, OF CLEVELAND HEIGHTS, OHIO, ASSIGNOR TO THE P. A. GEIER COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO

FLOOR POLISHING DEVICE

Application filed February 24, 1928. Serial No. 256,604.

My invention relates to improvements in floor polishing devices, and more particularly to an appliance of this character primarily adapted for use in connection with, and the conversion of the well known type of electric suction cleaner to this purpose. The object of my invention is to provide convertible means for readily polishing floor surfaces and simultaneously keeping them clean so that dust, lint and foreign material will not be incorporated in the polished or waxed surface.

Various types of floor polishers have been suggested and used, including attachable members for electric suction cleaners, but the polishers, per se, omit the function of a dustless polishing action, while the latter are found to lack the necessary weight and rigidity for maintaining a high polish, and are cleaning attachments per se.

Accordingly, it has been my purpose and accomplishment to provide a weighted polisher adapted readily to be attached to and removed from the nozzle of a portable electric suction cleaner, so that the latter may be quickly converted for the combined polishing and cleaning of floor surfaces. This polishing member is constructed so that the air currents may properly be applied while the device is in use, both for drying and keeping the polished surface and polishing compound free from foreign material. The polishing face may easily be replaced when desired, while a resilient member is provided for augmenting the polishing action during the continued operation of the associated suction nozzle.

The structural features, advantages and operation of my improved floor polishing appliance may best be explained in connection with the accompanying drawings, wherein:

Figure 1 is a front view of a suction cleaner nozzle equipped with the removable floor polishing appliance of my instant invention,

Fig. 2 is a fragmentary view of the latter in front elevation,

Fig. 3 is an enlarged sectional view showing the left hand portion of the nozzle with the appliance inserted for use,

Fig. 4 is a transverse section of the polishing device on line 4—4, Fig. 5.

Fig. 5 is a fragmentary plan view of said polishing device or attachment, and Fig. 6 illustrates the device placed in use.

Throughout the several figures of the drawings I have employed the same character of reference to indicate similar parts.

The suction cleaner nozzle a of Fig. 1 may be of any desired type, but preferably the edges of the suction mouth or lips a' are serrated or provided with air inlets substantially as shown. Interiorly of said nozzle at the ends thereof are provided suitable attaching means, such as the recessed boss a'', Fig. 3. This nozzle is well adapted for ordinary suction cleaning when used in conjunction with a portable vacuum cleaner.

The details of the polishing attachment will be explained in connection with the enlarged showing thereof. A relatively heavy weight-member b is underslotted at b' to receive the substantial bearing surface c of compacted felt extending the entire length of said weight. A felt covering c', which is replaceable, completely envelops the weight and bearing surface; being secured between said weight and the top plate d by means of screws c''. Said top plate is provided with attaching means, present in the terminal posts d' and springs d'' designed to engage the bosses a'' interiorly of the nozzle and removably hold the polishing member in position for use. The top plate is slotted at d^2, and the weight member b is provided with corresponding openings b^2, so that a certain amount of air may be drawn through the attachment when in position for use.

The extra thickness of the polishing attachment when disposed beneath the nozzle will serve to elevate the front and heavier portion of any associated suction cleaner so that its weight will be added to that of the attachment in polishing floor surfaces. The bearing surface c affords a resilient, semi-accommodating member which supports the entire weight longitudinally of the nozzle, and the induced air currents around the polishing cover c' through the serrated lips a', as well as through its body, in some measure, serve to dry the

polishing material used and also keep the finished surface free from lint and dust from the air.

Obviously, the attachment may be immediately removed if the suction cleaner is to be used for its primary purpose, while the fabric covering c' is alone subjected to wear when the device is used as a polisher, and this may be easily and cheaply detached and replaced as required.

Having now described and explained the operation of my improved polishing attachment, I claim as new and desire to secure by Letters Patent, the following:

1. In a polishing attachment of the class described, the combination with an elongated weighty member having a longitudinal slot therein, of a resilient fibrous member positioned in said slot and extending beyond the walls thereof to form a supporting part, and a removable covering enclosing said weighty and resilient fibrous members to form the polishing surface for said attachment, substantially as set forth.

2. In a floor polishing attachment, the combination with an elongated body member of substantial rigidity and weight, of a resilient member extending at an angle from the body member, a removable covering of polishing material disposed about said members, and means for removably attaching the device upon a suction nozzle, substantially as set forth.

3. In a polishing attachment, the combination with a longitudinally slotted member of substantial weight having perforations formed therein communicating with said slot, of a compacted felt member disposed within said slot and extending beyond the face of the weighty member, a removable fabric covering disposed about said members and spaced away from the weighty member adjacent the felt member to afford an air space, and means for removably attaching the device for use with a suction member.

In testimony whereof I do now affix my signature.

CHARLES B. LAWRENCE.