Oct. 14, 1958 J. T. JONES 2,855,620

WAX POLISHING DEVICE

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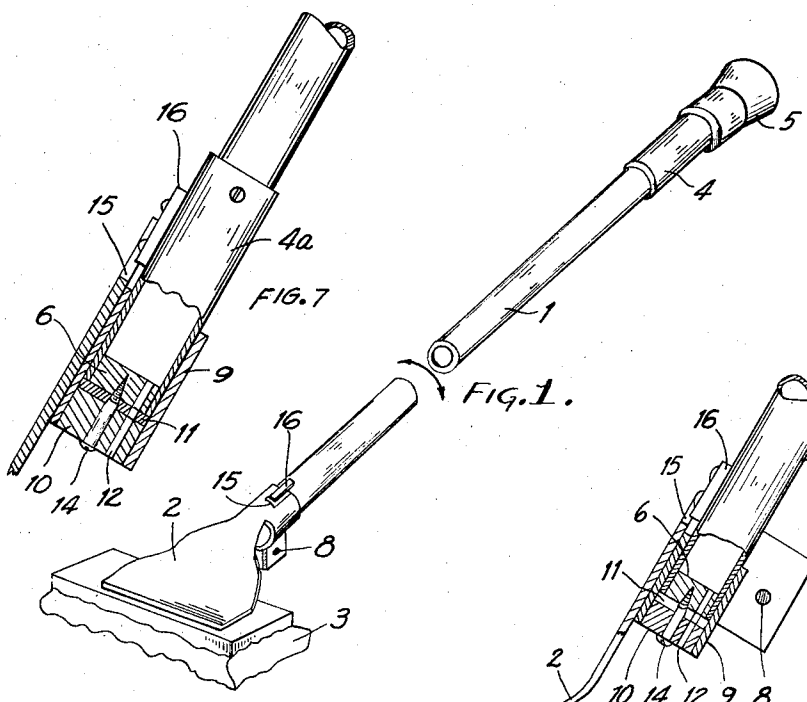


FIG. 7

FIG. 1.

FIG. 2

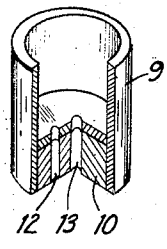


FIG. 6

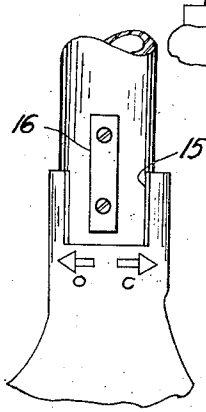


FIG. 3

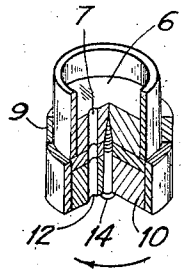


FIG. 5

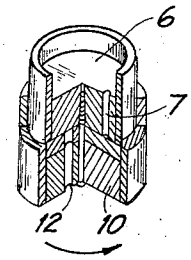


FIG. 4

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WAX POLISHING DEVICE

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3 Claims. (Cl. 15—138)

The present invention relates to wax polishing devices and is more particularly concerned with an apparatus of this class equipped with a reservoir control valve for discharging periodically quantities of wax during operation.

In the application of polishing wax to floors there is employed in domestic service a long handled applicator tool at the lower end of which is carried a mop head firmly backed and used for the purpose of rubbing down polishing waxes or similar media, particularly in the application thereof to floor surfaces. Where liquid polishes or waxes are employed, it has been required, according to previous practices that the operator, in addition to the polishing apparatus, carry a container of polish in order that the latter may be distributed periodically on the floor surface as the work progresses. Since the quality of the operation is dependent upon the thoroughness and vigor with which the polishing mop is handled and therefore requires the use of both hands, the portage of the polishing medium or wax constitutes a bothersome function because the application of polish usually has to be performed immediately prior to each rubbing down operation on limited floor areas.

With a view towards eliminating hazards in the utilization of floor polishing apparatus, it is proposed in accordance with the present invention to design a polishing mop in which liquid polish is carried in a reservoir portion of the mop and is discharged in appropriate quantities and at desirable intervals concurrently with the polishing technique and without requiring special attention to portage of the polish container and the periodic dispensation of polish quantities. This has been brought about by providing storage space in a polishing mop handle and equipping the handle extremity with a control valve that may be manipulated without changing the position of the operator's hand from that which is characteristic during the polishing operation, whilst discharging small quantities of polish as and when required.

A principal object of the present invention is the providing in a single device of a polishing mop and fountain container for polish that may be operated as vigorously as the work of polishing requires and through which quantities of polish may be discharged by the manipulation of the polishing handle without changing the position of the hands.

A further object of the present invention is the provision of a floor waxing mop that discharges or stops the flow of polish upon rotation of the mop handle to open or closed position.

A still further object of the invention is the provision of a fountain polishing mop of simple and inexpensive construction which may be provided with means to indicate the presence of an adequate supply of polish in the fountain.

For a more comprehensive understanding of the present invention, attention is now directed to the following detailed specification and to the accompanying drawing in which like reference characters designate corresponding parts throughout, and in which:

Fig. 1 is a perspective view of the device partly broken away;

Fig. 2 is a fragmentary view partly in section of the lower end of the handle and the mop of Fig. 1;

Fig. 3 is a fragmentary front view showing the stop structure used;

Figs. 4 and 5 are fragmentary perspectives partly broken away to show details of the valve;

Fig. 6 is a perspective partly broken away of the stationary element of the valve;

Fig. 7 is a fragmentary view partly in section of a slightly different arrangement of handle.

Referring to the drawings, Fig. 1 shows a handle **1** on the lower end of which is mounted a head element **2** carrying a polishing mop **3**.

Handle **1** is a tube preferably of light metal, the interior of which is used as a reservoir or fountain for a supply of liquid polish. The handle **1** may be of a transparent material without departing from the scope of the present invention, but preferably a short length of transparent material **4** is provided at the upper end of the metal tubular handle **1** through which the liquid in the handle may be observed. A cap **5** slidably engaging portion **4** may conveniently be used to close the reservoir.

At the lower end of the handle-reservoir **1** the tube is closed by a plug **6**. A dispensing passage or aperture **7** extends through plug **6** eccentrically thereto. The material of plug **6** may be wood or other material not adversely effected by the liquid in the handle and which will securely hold a screw threaded element **14**.

Mounted on mop head **2** either by clamp **8**, seen in Figs. 1 and 2, or by other means such as spot welding, soldering or brazing as seen in Fig. 7, is a ferrule **9**. The upper end of ferrule **9** is open to fit rotatably on the lower end of handle **1**. The lower end of ferrule **9** is closed by a plug **10**. A packing **11** is provided on top of the plug. An eccentric passage **12** and a central hole **13** is provided through plug **10** and packing **11**.

The device is held in assembled relation, so that plugs **6** and **10** make a valve, by a screw **14** through central hole **13** and engaging the center of plug **6**.

The front of mop head **2** is provided with a notch **15** and the handle **1** is provided with a lug **16** as seen most clearly in Fig. 3. The mop head may be provided with indicia showing the open or the closed position of the valve.

In operation the handle **1** would be filled with the desired liquid polish (or other liquid if desired) and the cap **5** replaced. The valve **6**, **7**; **10**, **12** would, of course, be closed during filling. The mop head **2**, **3** would then be placed on the floor and the handle **1** rotated to open valve **6**, **10** to permit a small amount of liquid to flow out onto the floor. When sufficient liquid has been deposited on the floor the handle is rotated to valve closed position and the mop is manipulated as vigorously as required to spread the polish and to polish the floor. Additional polish may be dispensed as required by a simple rotation of handle **1** without changing the position of the hands.

The transparent portion **4** of Fig. 1 or **4***a* of Fig. 7 is provided in order that the operator may be informed before, as well as during the floor polishing operation of the supply of polish in the reservoir so that the operator may assure herself that an adequate supply is provided at the start of operations and so avoid interruptions to refill the reservoir.

It will thus be seen that the objects hereinbefore set forth may readily and efficiently be attained and, since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended

that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. A liquid dispensing and polishing mop comprising a polishing head, a tubular ferrule mounted on said polishing head, a first eccentrically longitudinally apertured fixed plug providing a discharge spout closing the lower end of said ferrule, an elongated hollow cylindrical handle providing a container for said liquid of a size snugly but rotatably to fit into said ferrule, a second eccentrically longitudinally apertured rotatable plug closing the lower end of said handle, a screw element concentric with said ferrule and handle and said element connecting said plugs together to hold said handle rotatably assembled with said ferrule whereby said apertured plugs in said handle and said ferrule form a valve to dispense liquid wax from said handle when said apertures are manually brought into longitudinal alignment and to discharge the wax from said first plug at the bottom

terminus of said ferrule and to stop the flow of liquid when manually rotated out of such alignment, and an external lug on said handle to rotate therewith within the limits of a notch cut in the upper edge of said ferrule to form a stop to define an opened and a closed position for the valve, and to visibly indicate the relative positions of the apertures in said plugs between open and closed positions of said valve.

2. The liquid dispensing and polishing mop of claim 1 in which a portion of said hollow cylindrical handle is transparent, said portion consisting of a transparent extension sleeve connected to the top of said handle.

3. The liquid wax dispensing and polishing mop of claim 1 in which said head is provided with a clamping member, whereby said ferrule and handle are removably mounted thereon.

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