C. E. HOUSTON.

POLISHING DEVICE.

APPLICATION FILED MAR. 14, 1914.

1,140,593. Patented May 25, 1915.

Fig. 3.

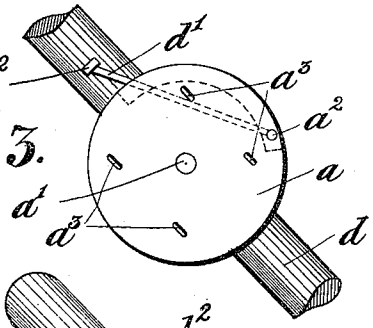


Fig. 4.

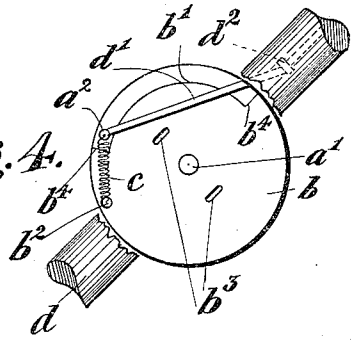


Fig. 2.

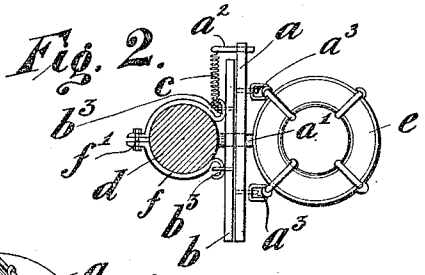
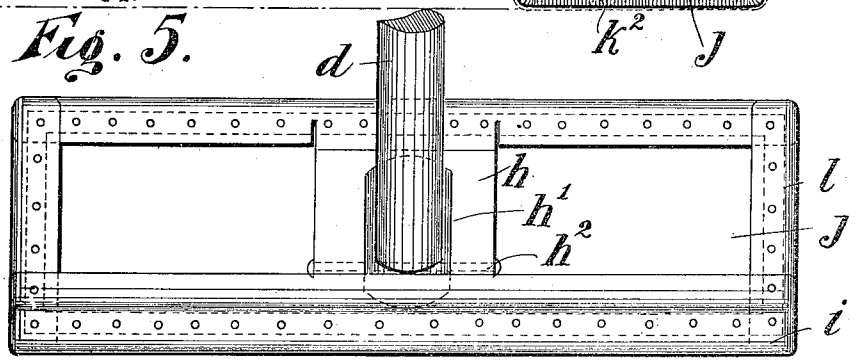


Fig. 1.

FLOOR LEVEL.

Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

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POLISHING DEVICE.

1,140,593. Specification of Letters Patent. Patented May 25, 1915.

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To all whom it may concern:

Be it known that I, CHARLES EDWARD HOUSTON, a subject of the King of England, residing at London, in England, have invented certain new and useful Improvements in Polishing Devices, of which the following is a specification.

This invention comprises improvements in, or relating to, polishing devices or implements of the kind wherein means are provided for holding the polishing fluid and applying same to surfaces, more particularly floors, linoleums and the like.

The primary object of the invention is to provide such a polishing implement with improved means for holding and discharging the polishing fluid whereby the same may be applied to the surface in a more convenient and simple manner than has hitherto been proposed.

In accordance with my invention, the improved polishing implement is provided with a device consisting of a holder or receptacle, such as a tin canister or the like, containing the polishing fluid. The holder is mounted to rotate or rock about a pivot and is operable by a cord, spring or other suitable mechanism under the control of the operator, said device being suitably attached to the polishing implement, for example, to the handle thereof, and the receptacle being preferably provided with a sprinkler top or discharge nozzle. The device is operated by pulling the cord, this action rotating or rocking the holder about its pivot and bringing the discharge end of the receptacle downward, thus allowing the polishing fluid to escape and fall onto the surface under treatment. Upon releasing the cord, the holder is automatically returned to its original position as by a helical spring or other appropriate means.

A further object of the invention is to combine, with said polishing fluid applying means, a form of hand polishing implement which may consist of a head provided with two rubbing surfaces or faces secured together at an angle say of 90°, said head being attached to a handle in such a manner that one surface may be caused to rub the polishing fluid over the surface under treatment and by reversing the implement the second surface may be used to polish said surface. The fluid applying device may be attached by a clamp, or otherwise, to the lower end of the handle of said polishing implement.

An embodiment of the invention is represented in the accompanying drawings in which—

Figure 1 is a side elevation showing the polishing fluid applying device combined with a hand polishing implement. Fig. 2 is a section on the line 2—2 of Fig. 1, the means for manually tilting the receptacle being omitted in the interest of clearness. Figs. 3 and 4 are elevational views, from opposite sides, of details of the improved fluid applying device, and Fig. 5 is a plan of the polishing head of the implement.

In Figs. 1 to 4, a indicates a rotatable disk, a^1 a pin or pivot by which said disk a is mounted on a fixed disk b, the latter being secured to the handle d by a clamping device f attached to said disk b by eyes b^3, and secured to the handle by a bolt and nut f^1. The disk b has in its periphery a segmental cut away portion indicated by b^1, the ends b^4 of which form abutments or shoulders adapted to be engaged by an eye a^2 on the disk a to limit the movement thereof in both directions.

c indicates a helical spring attached at its opposite ends to the disks a and b, respectively, by eyes a^2 and b^2, and d^1 designates a cord which passes through eyes d^2 on the handle and is attached to the eye a^2 of disk a. In Fig. 2 the operating cord d^1 is omitted for sake of clearness.

a^3 indicates eyes on the disk a by means of which a holder e, for example a wire frame, is attached to said disk a.

The improved fluid applying device is attached to the handle d of the polishing implement by the clamping device shown in Fig. 2, the holder e being shown as attached to disk a by the means described, and e^1 indicates the bottom of said holder attached to one side thereof by a wire hinge e^2 and secured to the opposite side of said holder by a wire hasp and staple e^3.

g indicates a receptacle containing the polishing fluid, and g^1 the discharge nozzle thereof. The cord d^1 passes along the side of handle d through the eyes d^2 and terminates in a ring d^3, by which it may be operated.

The lower end of handle d may be secured within a slot h^1 in a block h by a pin or pivot h^2, and attached to said block are two

boards *i* and *j* secured together at an angle of 90° by screws, one of which, *k*, is shown. The boards are attached to the block *h* by screws, two of which are indicated by k^2 and are completely covered externally by a felt pad or the like indicated by *l*, the broken lines l^1 indicating an additional, detachable and renewable polishing cloth or cover, both of which coverings may be attached to the head of the polishing implement by any suitable means such as tacks, pins or the like.

In Fig. 5 the felt pad *l* is shown folded over the sides and ends of the boards *i* and *j* and attached thereto.

It will be understood that the improved fluid applying device may be attached to any suitable form of polishing implement in any required manner, also that it may be desirable to vary the form of the device or the mechanism described for operating same, such variations being readily suggested by the requirements of the particular object in view.

It will also be understood that the holder need not necessarily be in the form of a wire frame, but may be constructed in any suitable manner, or the holder may form the receptacle for containing the polishing fluid and may be detachably connected to the rotatable disk by any suitable means.

The device is operated in the manner described above to deposit a quantity of polishing fluid from the receptacle on to the floor, and, in the case of a polishing implement of similar construction to the example shown in Fig. 1, the fluid is rubbed over the surface under treatment by one face of the implement which is then reversed and the polishing operation completed by the second face.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. A polishing device of the character specified comprising a receptacle for polishing fluid, a stationary member adapted for attachment to a polishing implement, and having a peripheral depression forming shoulders at its ends, an axially rotatable member carried by said fixed member and serving as a support for the receptacle, a flexible member for operating the rotatable member in one direction, a spring adapted to return said rotatable member to normal position and an abutment on said rotatable member adapted to engage the shoulders on the stationary member for limitation of its rotary movement in both directions.

2. A polishing device of the character specified comprising a receptacle for polishing fluid, an axially rotatable member, a holder for said receptacle secured to said rotatable member, means for rotating the latter to cause discharge of a quantity of a fluid from the receptacle directly on to the surface to be polished and means for automatically returning the rotatable member, holder and receptacle to normal position after a discharging operation.

3. A polishing device of the character specified comprising a receptacle for polishing fluid, a stationary member adapted for attachment to the handle of a manually operated polishing implement and having a peripheral segmental cut away portion forming shoulders at its ends, an axially rotatable member carried by said fixed member, a holder for said receptacle detachably secured to said rotatable member, a cord secured to said rotatable member and extending along said handle for rotating the rotatable member, holder and receptacle in one direction to discharge a quantity of fluid from said receptacle on to the surface to be polished, a spring connected at opposite ends to the fixed member and rotatable member respectively for returning the rotatable member, holder and receptacle to normal position on release of the cord, and a pin on the rotatable member adapted to engage the aforesaid shoulders on the stationary member to limit the movement of rotation of said rotatable member in both directions.

4. In a device of the class described, the combination with a polishing implement provided with a handle, of a rotatable holder mounted on said handle, said holder being adapted to detachably support a container of conventional type, means for normally maintaining the holder in such position that the container is substantially upright, and means for rotating the holder for the purpose of inverting the receptacle, whereby the contents thereof is deposited directly upon the surface to be polished.

In witness whereof I have signed this specification in the presence of two witnesses.

CHARLES EDWARD HOUSTON.

Witnesses:

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I. A. MECHNIAL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."