W. MOUNT.

APPLIANCE FOR POLISHING FLOORS OR FLOOR COVERINGS.

APPLICATION FILED AUG. 21, 1913.

1,141,478. Patented June 1, 1915.

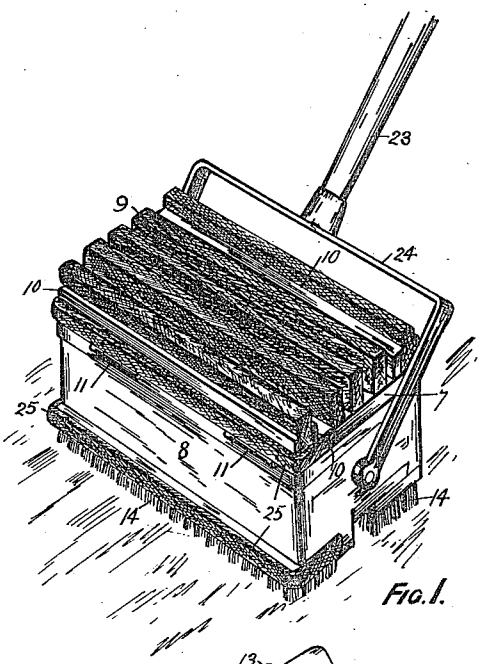


FIG. 1.

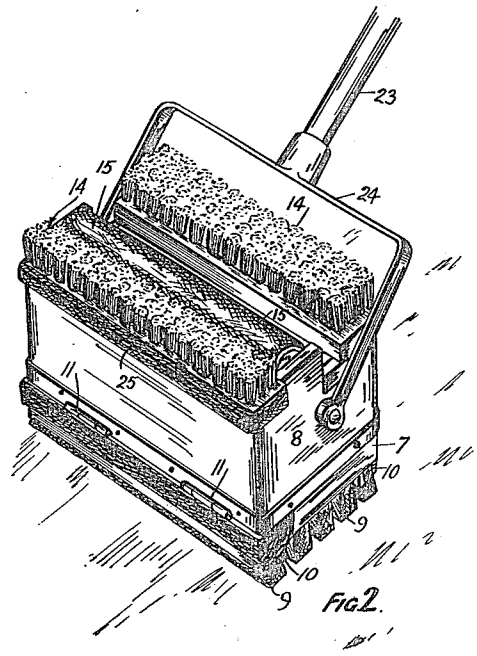


FIG. 2.

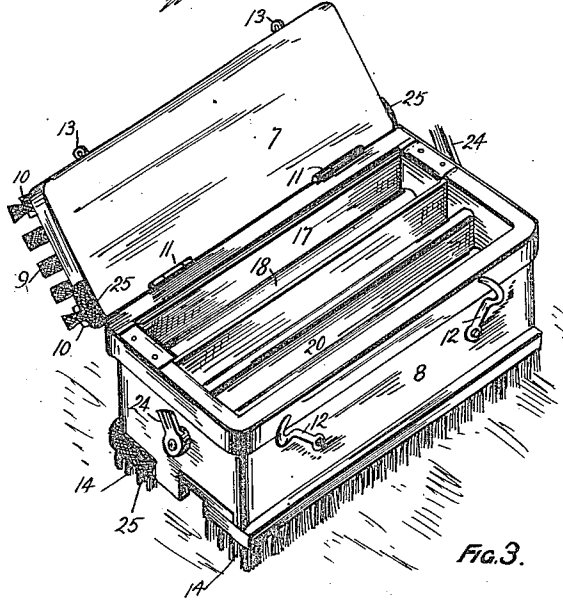


FIG. 3.

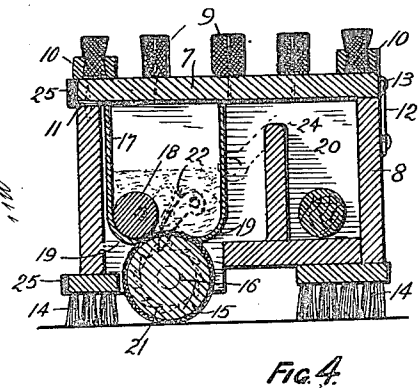


FIG. 4.

Witnesses:-
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UNITED STATES PATENT OFFICE.

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APPLIANCE FOR POLISHING FLOORS OR FLOOR-COVERINGS.

1,141,478. Specification of Letters Patent. Patented June 1, 1915.

Application filed August 21, 1913. Serial No. 785,979.

To all whom it may concern:

Be it known that I, WILLIAM MOUNT, of Bay View, Darling Point Road, Darling Point, Sydney, in the State of New South Wales, Commonwealth of Australia, have invented a certain new and useful Improvement in Appliances for Polishing Floors or Floor-Coverings, of which the following is a specification.

The present invention refers to appliances for polishing floor or floor covering surfaces comprising a rectangular framing reversible within the operating push handle and having opposite faces adapted one for distributing a polishing medium and the other for polishing the surfaces. And the object of this invention is to provide an improved appliance of the type mentioned adapted to contain a supply of plastic polishing medium and to automatically apply and distribute same to the flat surface to be polished. And according to this invention the appliance comprises a hollow box frame having contained therein a transverse compartment or receptacle for the polishing medium, open at one end and closed at the opposite end by a transverse distributing roller disposed for floor contact and rotatable in one direction. One horizontal face of the frame consists of a hinged lid covering the open end of said transverse receptacle and having its outer surface padded for polishing purposes while the said roller protrudes through the opposite horizontal face of the frame on which latter face is disposed transverse brushes for floor contact positioned ahead and rearwardly of said roller. The said brushes operate to hold the said roller free of floor contact and consequent rotation until sufficient downward pressure is applied to the frame by the operating push handle, and further to evenly spread the polishing medium applied to the surface to be polished, by the said roller. To feed the plastic medium a loose roller is provided in the container bearing on the peripheral surface of the distributing roller.

In the drawings accompanying this specification and forming a part thereof, the preferable form of my invention is illustrated in which:—

Figure 1 is a perspective view of the appliance with the distributing surface in floor contact. Fig. 2 is a reverse view to Fig. 1. Fig. 3 is a perspective view of the appliance with the hinged polishing surface raised to show the interior. Fig. 4 is a vertical sectional elevation.

The horizontal lid 7 of the hollow rectangular frame 8 constitutes the polishing surface of the appliance having transversely affixed thereto the folded strips 9 of resilient material such as felt the end strips being preferably reinforced by wood strips 10. This lid 7 is secured by hinges 11 to the hollow frame 8 and held in closed position (see Fig. 1) by suitable catches such as hooks 12 taking in screw eyes 13.

On the end of the frame 8 opposite to the lid 7 and at each transverse edge is affixed a brush 14 and between which is disposed the distributing roller 15 the spindle 16 of which has bearing in the sides of the frame 8. The distributing roller 15 protrudes through the frame 8 (see Fig. 4) and fits into the delivery end of the transverse receptacle 17 for the plastic polishing medium being affixed within the frame 8. For feeding the plastic polishing medium a loose transverse roller 18 is placed in said receptacle 17 to bear upon the peripheral surface of the roller 15. The ends 19 of the receptacle 17 are curved inwardly and concentric to the loose roller 18 so that the latter will press the whole of the plastic medium contained in the receptacle 17, into contact with the roller 15. When the plastic material has for any reason become comparatively firm, the loose roller 18 employed is preferably of iron so as to exert greater pressure on the polishing medium but usually a wooden roller will be found effective, and for convenience the compartment 20 is formed in the frame 8 to contain the spare roller (see Fig. 4).

In order that the quantity of the polishing medium applied by the distributing roller 15 to the surface to be polished may not be excessive it is contrived that said roller may only rotate during one operative stroke of the frame 8, and this is effected by a circular ratchet plate 21 provided on the spindle 16 of said roller 15, in which plate 21 engages a spring held pawl 22 affixed to the interior of said frame 8 (see Fig. 4).

To reciprocate the appliance when in floor contact a push handle 23 is provided attached to the U-shaped frame 24 the ends of which are pivotally attached to the sides of the box frame 8. In order to prevent

any damage to articles of furniture or woodwork, buffing strips 25 are attached to the forward end of the frame 8.

In use, the receptacle 17 being charged with polishing medium, to apply same to the surfaces to be polished, downward pressure is imparted to the frame 8 by the handle 23 sufficient to overcome the tension of the fibers of the brushes 14 and bring the distributing roller 15 into floor contact when movement of the appliance in one direction will cause rotation of the roller 15, reciprocation of the appliance causing the brushes 14 to distribute the polishing medium evenly. When the polishing medium has been thus distributed the frame 8 is then reversed within the U-shaped frame 24 to bring the polishing strips 9 on the lid 7 into floor contact (see Fig. 2) when the polishing operation is carried out by again reciprocating the appliance.

It is to be understood that I do not confine myself to the use of the polishing strips 9 on the lid 7 as the latter may be entirely covered with one piece of padding, and also it will be found that by the use of the brushes 14 that the polishing medium will have been polished to a considerable extent the padding on the lid 7 being only provided for putting a finish on the polish.

What I claim and desire to secure by Letters Patent is:—

1. In polishing appliances for floors and floor coverings, in combination, a hollow rectangular box frame reversible within a U-shaped frame pivotally attached thereto and having a push handle, a lid on one horizontal side of said box frame, a transverse receptacle contained within said box frame and open at one end and closed at the other by a transverse distributing roller rotatable by floor contact, said roller having a circular ratchet plate affixed to its spindle, a spring held pawl engaging with said plate and attached to said box frame, and brushes disposed on said frame ahead and rearwardly of said roller as herein set forth.

2. A polishing appliance for floors and floor coverings, consisting of a hollow box frame, a U-shaped frame having its ends pivotally attached to said box frame, a handle attached to said U-shaped frame, a lid closing one horizontal side of said box frame, a transverse receptacle contained within said box frame and open at one end and closed at the other by a transverse distributing roller rotatable by floor contact, said roller having a circular ratchet plate affixed to its spindle, a spring held pawl engaging with said plate and attached to said box frame, brushes disposed on said frame ahead and rearwardly of said roller, and a loose roller contained within said receptacle.

3. A polishing appliance for floors and floor coverings comprising a casing, means for depositing and spreading a plastic polishing medium on the floor formed on one side of said casing, means for polishing said floor secured to the oppositely disposed side of said casing, a frame, and its complemental handle provided, said casing revolubly mounted in said frame, substantially as described.

4. A polishing appliance for floors and floor coverings comprising a substantially rectangular hollow casing, a one-way roller revolubly mounted in said casing and projecting beyond the side thereof, spreaders secured to said casing adjacent said roller and serving to normally space said roller from the floor to receive the polishing medium, means for polishing said floor secured to the oppositely disposed side of said casing, a frame including its complemental handle provided, said casing revolubly mounted in said frame, substantially as described.

In witness whereof I have hereunto affixed my signature the 24th day of July 1913.

W. MOUNT.

In the presence of—
E. Cush,
Valter Sigmont.