E. O E. BLOMQUIST.

FLOOR WAXING AND POLISHING DEVICE.

APPLICATION FILED MAR. 11, 1921.

1,394,662. Patented Oct. 25, 1921.

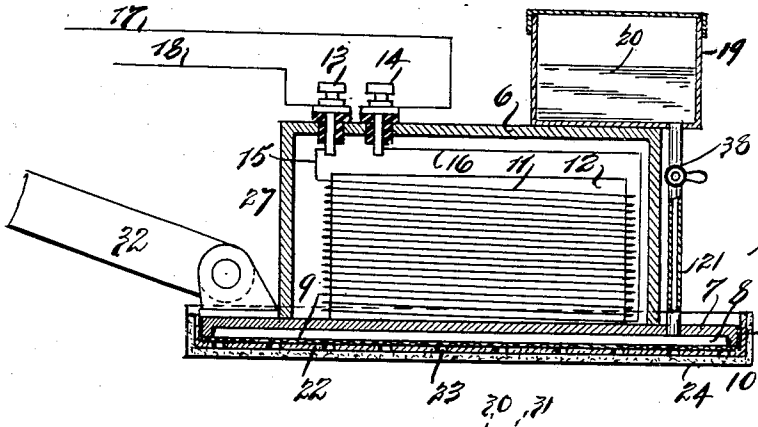


FIG. 1.

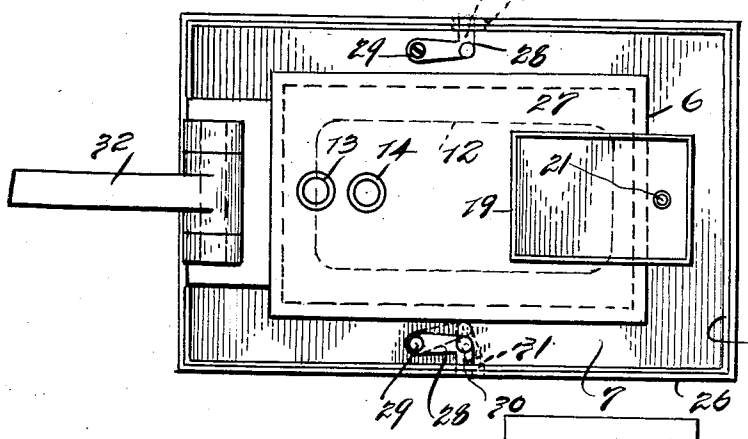


FIG. 2.

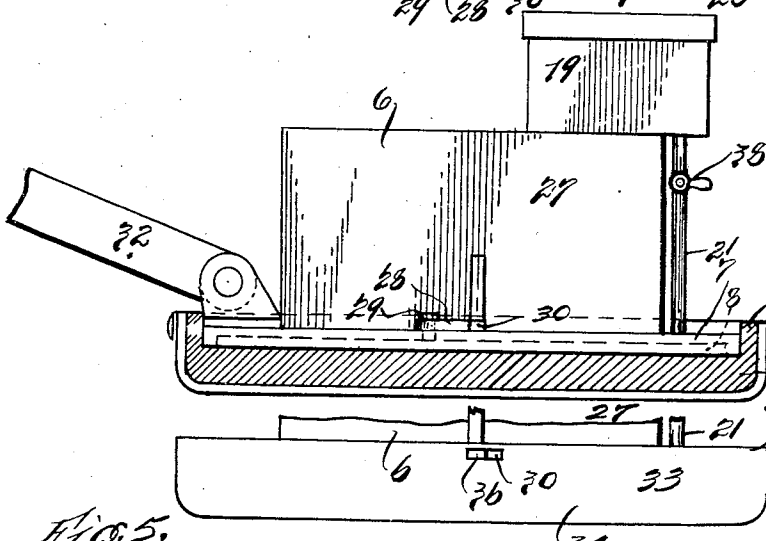
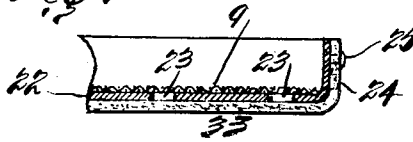


FIG. 3.

FIG. 4.

FIG. 5.



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FLOOR WAXING AND POLISHING DEVICE.

1,394,662. Specification of Letters Patent. Patented Oct. 25, 1921.

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To all whom it may concern:

Be it known that I, ERNEST O. E. BLOMQUIST, a resident of Woodside, Queens county, State of New York, and a citizen of the United States of America, have invented certain new and useful Improvements in Floor Waxing and Polishing Devices, of which the following is a specification.

This invention relates to improvements in devices for treating floors, particularly waxed floors, and has for one of its objects to provide means whereby a floor can be waxed and thereafter polished without the exertions required when said operations are carried out by a person upon their hands and knees.

To carry out my invention I provide a mechanical device arranged to both apply wax to a floor and afterward polish the applied wax.

My improved appliance is in the form of pads applied to and arranged to be heated by a suitable mechanism, preferably an electrically heated coil, which can be connected to an electric-light fixture by means of a suitable plug.

In combination with the above I employ a reservoir for wax, which when heated will flow onto a pad arranged for the purpose and saturate the same. By means of a suitable handle the device can be moved in contact with and along a floor, thereby applying the wax, whereupon the heating coil will be applied to a second pad which will be relatively heavy, said pad being covered by a suitable polishing fabric. After this second pad has become sufficiently heated the device will again be moved along the floor, whereby the theretofore deposited wax will be polished. My improved waxing and polishing device can be used by a person standing erect, or substantially so, whereby the operation of waxing and polishing a floor will be rendered a comparatively easy matter.

I will now proceed to describe my invention in detail, the novel features of which I will finally hereinafter claim, reference being had to the accompanying drawing, wherein—

Figure 1 is a sectional view of my device arranged for applying wax;

Fig. 2 is a plan view thereof;

Fig. 3 is a sectional view, partly in elevation, illustrating the device arranged for polishing;

Fig. 4 is a fragmentary side elevation illustrating the polishing pad; and

Fig. 5 is a fragmentary sectional view of the wax applying pad.

My invention may be embodied in numerous forms, but I have herein illustrated a simple and effective embodiment thereof. Referring to Figs. 1 and 2, the numeral 6 indicates a casing or box having for a bottom member a metal plate 7 recessed as at 8 to provide space for the flow of wax in order that same while in molten condition can become distributed over the surface of a fabric sheet 9 which forms part of the wax applying pad, indicated generally by 10. Within the casing or box 6 I place a resistance or heating coil or unit 11 suitably mounted on a core 12 of insulating material. The coil at each end will be connected to binding posts 13 and 14 by leads 15 and 16. When the device is in use the posts 13 and 14 will be connected by circuit wires 17 and 18 to any suitable source of electricity, an electric-light fixture for instance. The wires 17 and 18 diagrammatically indicate the ordinary flexible conducting cable used in connection with electrical appliances. Upon the casing or box 6 I locate a reservoir 19 for wax, indicated by 20, the reservoir 19 being connected by a duct 21 with the recess 8 in the plate 7.

The waxing pad consists of a metal tray member 22 (see Fig. 5) perforated as at 23, a fabric lining, hereinbefore referred to and indicted by 9, and a fabric facing 24 which is secured to the tray 22 by suitable means, such for instance as rivets 25. The pad 10 is releasably attached to the bottom member 7 of the heating element, and is provided with a flange 26 to form a pocketed structure to receive the bottom plate 7 of the heating element, generally indicated by 27.

To lock the heating element 27 and pad 10 together while in use, I provide latches 28, pivoted at 29 to the plate 7 of the heating member. Each latch carries a nose 30 to engage an adjacent slot 31 in the adjacent flange 26 of the pad 10.

When a floor is to be waxed, wax will be placed in reservoir 19, plate 10 applied to the heating element, and coil 11 connected by wires 17 and 18 to a source of electrical supply. After the device becomes heated the wax will melt and flow downwardly through duct 21 into recess 8 and will finally saturate the lining 9. When lining 9 becomes

sufficiently saturated with hot wax the wax will flow through perforations 23 onto facing 24, which it will finally saturate. After facing 24 has become saturated the device may be moved along the floor to be waxed, by means of handle 32, which operation will apply wax to the floor. After wax has been applied, the latches 28 will be moved out of engagement with slots 31 and the heating device 27 lifted off the pad 10 and placed in a polishing pad 33 (Fig. 3) consisting of a relatively heavy plate 34 having an annular flange 35 to provide a pocket to receive plate 7 of heating element 27. After the heating element has been applied to pad 33 the latches 28 will be moved into engagement with slots 36 in flange 35, thereby locking the polishing pad 33 and heating element 27 together. The plate 34 will be faced with a suitable polishing fabric 37. After plate 34 and facing 37 have become sufficiently heated the device will be moved along the theretofore waxed floor to polish the deposited wax. When the heating element is applied to the polishing pad 33 it will already be heated, and hence it will not take as long to heat pad 33 as it otherwise would.

Before the heating element is applied to the polishing pad the wax will have been exhausted, but if it is not exhausted its flow may be stopped by closing valve 38, which may be an ordinary shut-off valve; hence plate 34 will not become smeared with wax.

By the above described arrangement I am able to provide a combined waxing and polishing outfit, the heating element being applicable to both the waxing pad and the polishing pad.

Having now described my invention, what I claim is:

1. In a device for waxing floors, a heating element consisting of a casing, an electrical heating coil within same, a metal bottom for said casing, a pad, an upstanding flange carried thereby to provide a pocket to receive the bottom plate of the heating element, and means to detachably connect the plate and pad.

2. In a device for waxing floors, a heating element consisting of a casing, an electrical heating coil within same, a metal bottom for said casing, a pad, an upstanding flange carried thereby to provide a pocket to receive the bottom plate of the heating element, and means carried by the bottom plate to releasably engage the flange on said pad.

3. In a device for waxing floors, a heating element, a reservoir for wax carried thereby, a bottom plate for the heating element having a recess, a duct connecting the reservoir and recess, a pad alining with said recess consisting of a perforated plate and a fabric covering extending over the outer surface of the plate, and means carried by the bottom plate to releasably engage the pad.

4. In a wax applying device, a heating element, a reservoir for wax carried thereby and arranged to be heated by said element, a pad carried by the heating element consisting of a perforated plate, a fabric covering therefor, and means to convey molten wax from the reservoir to the perforated plate.

5. In a wax applying device, a heating element, a reservoir for wax carried thereby and arranged to be heated by said element, a recessed plate carried by the heating element, a duct connecting the reservoir and recess in the plate, and a covering of absorbent material for said recess.

ERNEST O. E. BLOMQUIST.