F. A. SCHULTZ.

FLOOR POLISHER.

APPLICATION FILED JUNE 16, 1913.

1,139,809.

Patented May 18, 1915.

2 SHEETS—SHEET 1.

Fig. 1

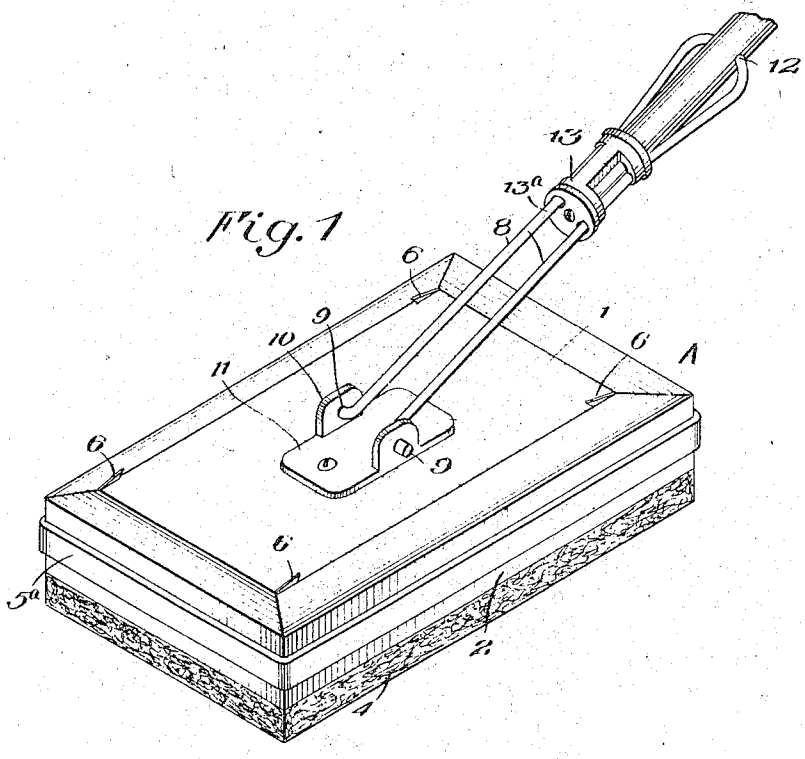


Fig. 2

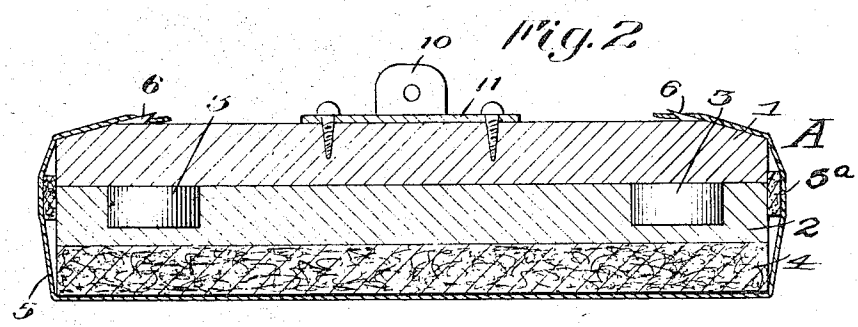
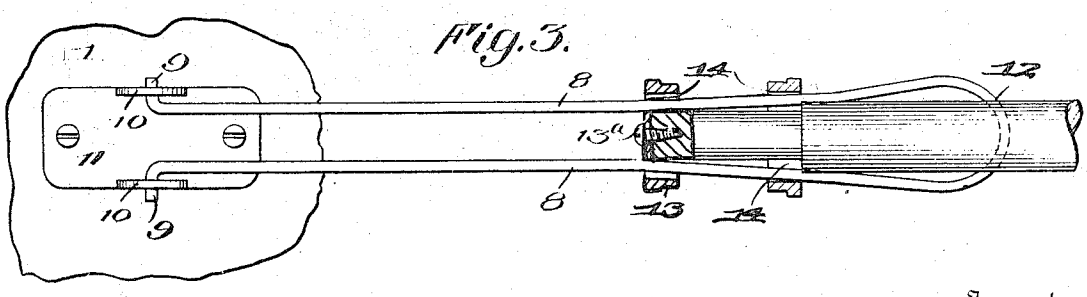


Fig. 3.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 6

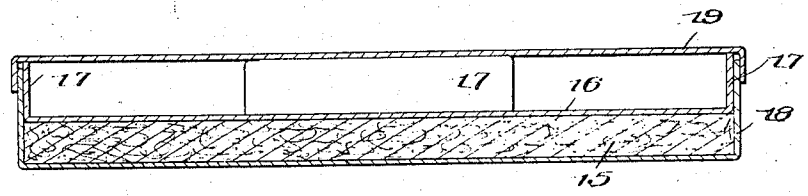
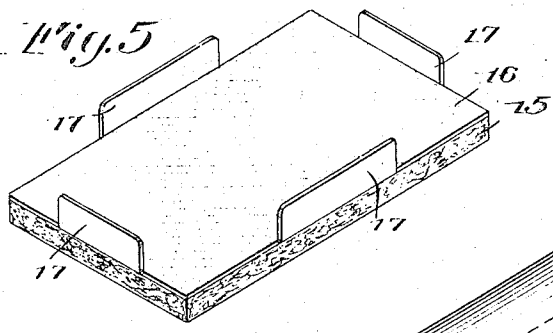


Fig. 5



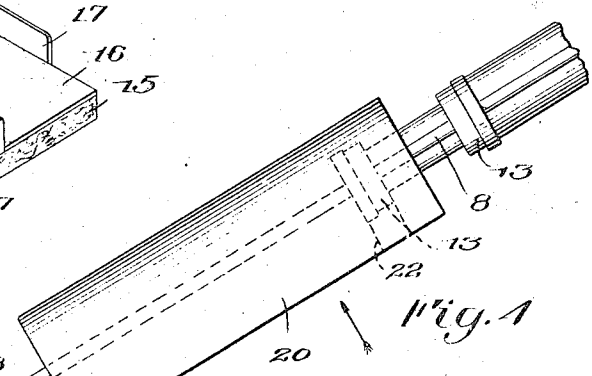


Fig. 1

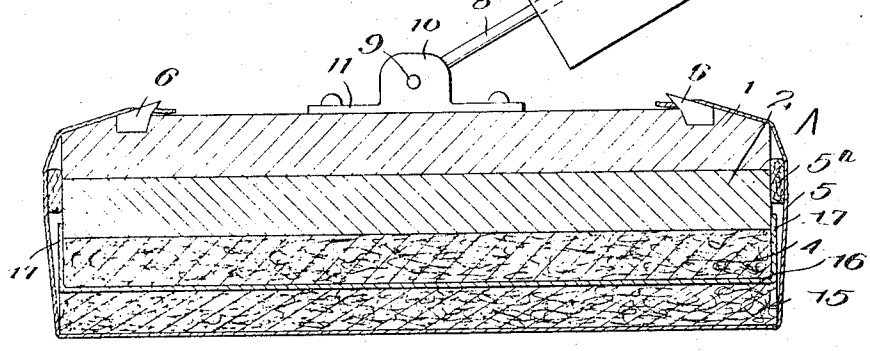


Fig. 8

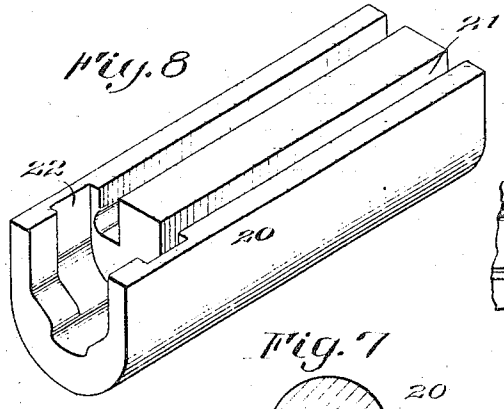


Fig. 9

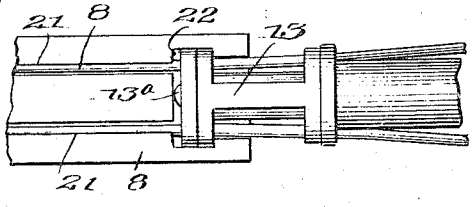
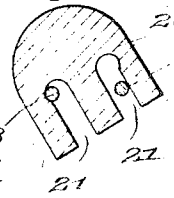


Fig. 7



Witnesses

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UNITED STATES PATENT OFFICE.

FREDERICK A. SCHULTZ, OF ROCHESTER, NEW YORK, ASSIGNOR TO ROCHESTER SHELLAC COMPANY, OF ROCHESTER, NEW YORK, A CORPORATION OF NEW YORK.

FLOOR-POLISHER.

1,139,809. Specification of Letters Patent. Patented May 18, 1915.

Application filed June 16, 1913. Serial No. 773,883.

To all whom it may concern:

Be it known that I, FREDERICK A. SCHULTZ, a citizen of the United States, residing in Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Floor-Polishers, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

My present invention relates to floor polishers and it has for its object to provide a polisher which may be readily adapted for ordinary dusting purposes or for applying wax or other polish to a floor.

A further object is to provide means whereby detachable weights may be applied as desired to give more or less pressure upon the polisher for producing a glossy finish.

To these and other ends the invention consists in certain parts and combinations of parts all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings: Figure 1 is a perspective view showing a polisher constructed in accordance with my invention; Fig. 2 is a longitudinal central sectional view thereof with the handle removed and a piece of cloth or other absorbent material stretched over the yielding surface thereof; Fig. 3 is a detail view showing the handle attaching means; Fig. 4 is a longitudinal sectional view showing the device adapted for applying wax or polish and with a weight applied to the handle; Fig. 5 is a perspective view of the polish containing pad, removed; Fig. 6 is a sectional view showing the pad inclosed in a suitable container; Fig. 7 is a sectional view showing the manner of applying and removing the weight from the polisher; Fig. 8 is a perspective view of the removable weight; and Fig. 9 is a detail view showing the weight as it would appear looking in the direction of the arrow in Fig. 4.

The polisher preferably embodies a base or support A constructed of laminations 1 and 2, one or both of which are recessed to receive a plurality of weights 3. A wide, flat and yielding pad 4 is secured to the under surface of the support, and if the polisher is to be used for dusting purposes or for polishing, a covering 5 of porous material is tightly stretched over the face of the pad and removably held in place by hooks 6 which may be angular plates driven into the upper surface of the support. A buffer strip 5^a may be fastened over the seam between the laminations 1 and 2 and thus hides such seam.

The polisher may be manipulated by a handle 7 having a bifurcated attaching portion embodying preferably two parallel spaced laterally yielding rods or wires 8 which are bent laterally at their ends as at 9 and fit in bearings in the lugs 10 on a plate 11 fastened to the support A. The handle is thus pivotally connected to the polisher but may readily be disconnected if desired by merely pressing the rods toward each other sufficiently to withdraw the ends 9 from the lugs 10. The wire attaching portion may be secured to the handle by passing it transversely therethrough near its end as at 12 and bending the protruding portions 8 so as to be parallel to and extend beyond the end of the handle. The parallel portions may be held against separation by a ferrule 13 fitting over and secured to the end of the handle by a screw 13^a and having longitudinal apertures 14 adapted to receive the wires.

When it is desired to apply polish or wax to a surface, I make use of a supplementary removable pad 15 which may be superposed upon the face of the support directly over the pad 4. This pad may embody a backing 16 preferably of sheet metal having the laterally bent projecting flanges 17 adapted to engage on all edges of the support A to prevent lateral disengagement of the pad, which is held against removal by the covering 5. The pad 15 may be kept when not in use, in a box or container 18, having a cover 19, thereby preventing any absorption or evaporation of the polish with which the pad is charged.

It is desirable that more pressure be applied when polishing, and to this end I provide means whereby a weight may be detachably secured to the handle near its pivotal point. The weight indicated by 20 has two longitudinally extending parallel channels or recesses 21 adapted to receive the parallel wires 8. The distance between the outer walls of the recesses is less at the surface of the weight than at the bottom of the recesses, as shown in Fig. 8 so that in order to place or remove the weight it is necessary to engage one of the wires 8 in one recess as shown in Fig. 7 and then rock the weight

about the wire as a center until the other wire engages in its corresponding recess. A transverse recess 22 is adapted to receive the ferrule 13 to limit longitudinal motion of the weight although the weight has a slight movement on the handle in order that, when the instrument is carried rearwardly, the weight will ride up the handle and will then slide downwardly on the handle by gravity to initiate a return movement.

A polisher constructed in accordance with this invention may be used for dusting or for waxing floors, the dust collecting polishing and wax applying element is removable to permit it to be cleaned. The element which is charged with wax does not come into contact with the floor but supplies the wax through porous cloth which takes up all the dirt. The weight is of simple construction and is easily connected to or removed from the polisher. By arranging the weight upon the handle, the force is applied to the polisher in such a manner that when the brush is drawn rearwardly, there is no tendency for the brush to tilt on the handle and rise off of the floor. The rods or wires 8 form a resilient connection between the handle and the support so that a yielding pressure may be maintained on the floor and all jars on the hands of the user are eliminated.

What I claim as my invention and desire to secure by Letters Patent is:

1. A polisher comprising a support, a pad secured to said support over the under side thereof, a coating device having an absorbent material on one face and a sheet of non-absorbent material on the other face abutting the pad, and means for detachably holding the coating device in abutting relation to the pad.

2. A polisher comprising a support, a pad secured to the support and a coating device loosely abutting the pad, a cloth fitting over said coating device, and means for detachably holding the cloth to permit the coating device to be removed from the pad.

3. A polisher comprising a support, cloth securing devices on the support, a coating device having an absorbent material on one face and also having a sheet metal plate having upwardly-turned flanges to prevent lateral movement of the coating device on the support, and a cloth secured over the coating device and held by the securing devices to hold the coating device to the support.

4. A polisher comprising a support, cloth securing devices thereon, a coating device removably secured to the support, and a cloth held by the securing devices and holding the coating device to the support.

5. A polisher comprising a support, a sheet of felt secured to said support, a sheet metal plate separate from the felt and abutting the under side of the latter, said plate having upturned flanges to prevent lateral movement of the plate on the felt, and a sheet of absorbent material secured to said plate.

6. A polisher comprising a support having a flat under side, a sheet of felt secured to the under side of the support, a sheet metal plate separate from the felt and abutting the under side of the latter, said plate having upturned flanges to prevent lateral movement of the plate on the felt, a sheet of felt secured to the under side of the plate, a sheet of woven material fitted over the last named sheet of felt, and devices on the support for securing the woven material at opposite ends to hold the plate and its felt in abutting relation to the first named felt.

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