Dec. 11, 1928. 1,694,983

H. V. SCHAEDEL

FLOOR POLISHER

Filed Nov. 13, 1924 2 Sheets-Sheet 1

Fig. 1.

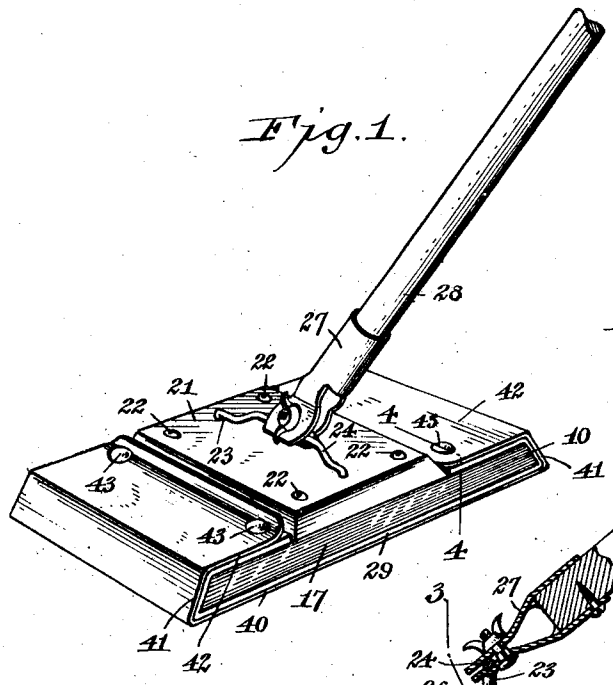


Fig. 2.

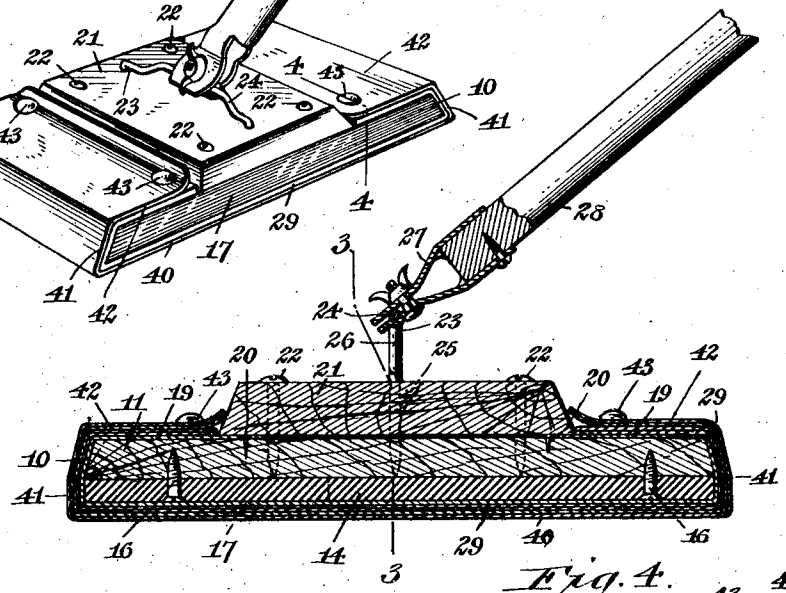


Fig. 3.

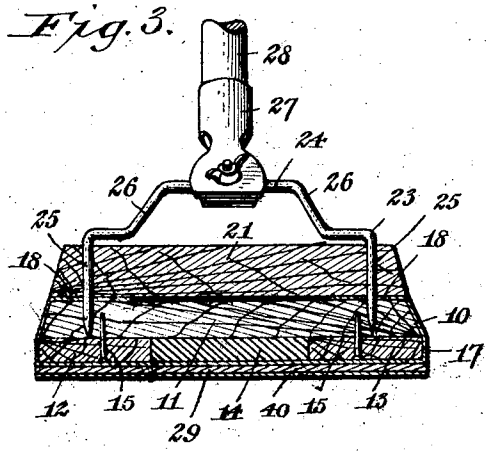
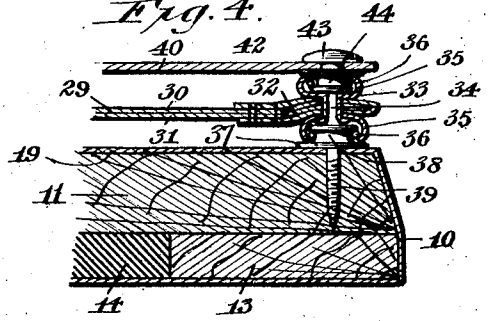


Fig. 4.



Henry V. Schaedel, Inventor.

By Emil Neubart

Attorney.

Dec. 11, 1928. 1,694,983

H. V. SCHAEDEL

FLOOR POLISHER

Filed Nov. 13, 1924 2 Sheets-Sheet 2

Fig. 5.

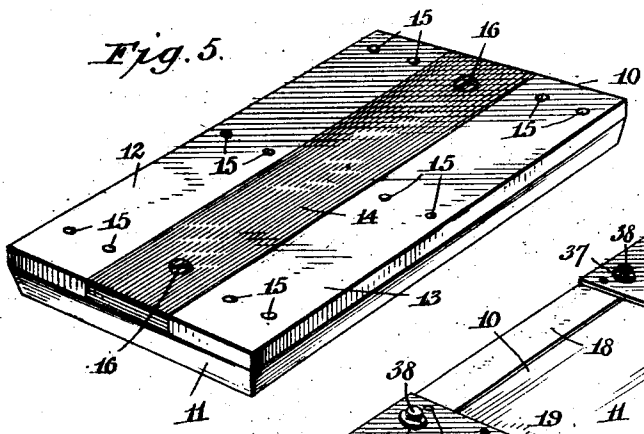


Fig. 6.

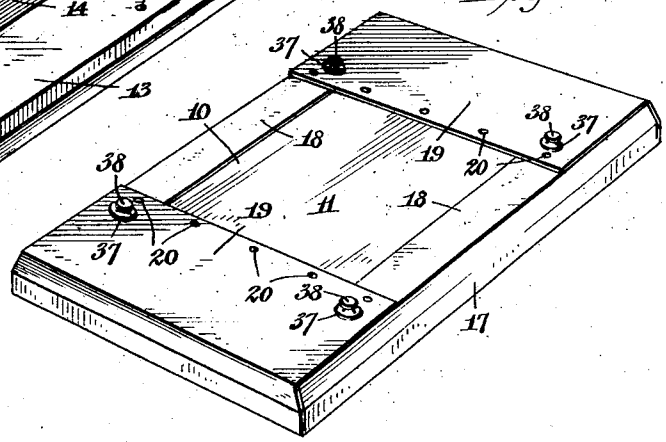


Fig. 9.

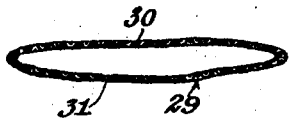
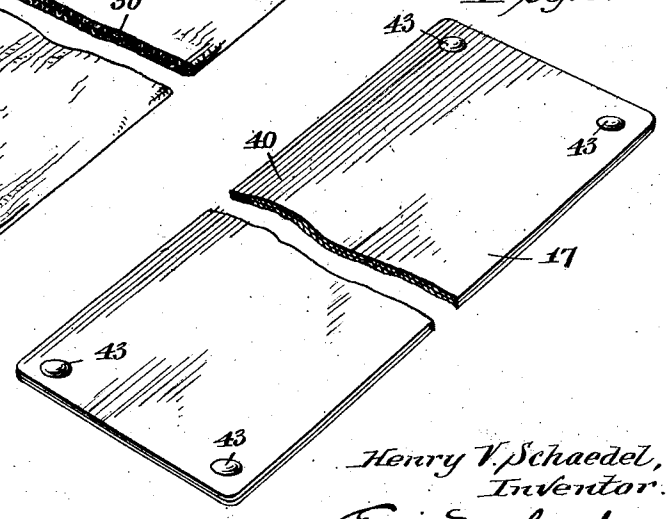


Fig. 7.

Fig. 8.



Henry V. Schaedel,
Inventor.

By Emil Neubart
Attorney.

Patented Dec. 11, 1928. 1,694,983

UNITED STATES PATENT OFFICE.

HENRY V. SCHAEDEL, OF BUFFALO, NEW YORK, ASSIGNOR TO LIQUID VENEER CORPORATION, OF BUFFALO, NEW YORK, A CORPORATION OF NEW YORK.

FLOOR POLISHER.

Application filed November 13, 1924. Serial No. 749,638.

My invention relates to improvements in floor polishers, and more particularly to floor polishers used for household purposes, to apply wax to a floor and polish the same.

One of the objects of my invention is to provide a floor polisher which is simple, inexpensive, easy to use, and so constructed that it is comparatively light, yet possesses sufficient weight for polishing purposes.

Another object of my invention is to provide a floor polisher with a removable waxing surface.

Another object is to provide a floor polisher with a reversible waxing element so that two waxing surfaces are available.

A further object of my invention is to provide a floor polisher with a removable waxing element and an underlying polishing element.

A still further object of my invention is to provide a floor polisher with two removable reversible elements, one outside of the other and having two waxing surfaces, and said other having two polishing surfaces.

A still further object is to provide a wax polisher with removable readily washable waxing and polishing elements.

A still further object of my invention is to provide a floor polisher with a body portion onto which waxing and polishing elements are secured by three-part fasteners so that they can be easily removed, one being retained on the body portion while removing the other, and each having corresponding parts of said three-part fasteners secured thereto.

With the above and other objects in view to appear hereinafter, the invention consists in the novel features of construction and in the arrangement and combination of parts to be hereinafter described and more particularly pointed out in the subjoined claims.

In the drawings:—

Fig. 1 is a perspective view of my improved floor polisher.

Fig. 2 is a central longitudinal section through the same.

Fig. 3 is a transverse section taken on line 3—3, Fig. 2.

Fig. 4 is an enlarged transverse section taken on line 4—4, Fig. 1.

Fig. 5 is a reversed perspective view of the body portion of the polisher with its facing material or covering removed therefrom.

Fig. 6 is a detached perspective view of the body portion, showing its facing material or covering applied thereto.

Fig. 7 is a detached perspective view of the removable polishing element.

Fig. 8 is a detached perspective view of the removable waxing element.

Fig. 9 is a transverse section of the polishing element, opposite sides or layers thereof being slightly separated to show its tubular formation.

The polisher has a body portion 10 which is preferably of greater length than width and is formed of a plurality of parts, one part 11 being co-extensive with its length and width and forming the upper part of said body portion. To the lower side of said upper part, three additional parts 12, 13, and 14 are secured, the parts 12 and 13 being at opposite sides of the part 14. The parts 11, 12 and 13 are formed of wood, preferably arranged so that the grain of the parts 12 and 13 are at right angles to the grain of the part 11, while the part 14 is formed of iron or steel to give the body portion the required weight so that when manipulating the polisher, sufficient pressure will be applied to the floor to assure the required polish. By reason of the construction described, the metallic part 14 may be said to be recessed into the under side of the body portion and it also serves to strengthen the body portion, which is in the main, formed of wood.

The parts 12 and 13 are preferably nailed to the under side of the part 11, as shown at 15, while the part 14 has screw holes, through which screws 16 are passed that take into the upper part 11, thus the lower region of the body is formed of three parts, and by attaching said parts securely to the under side of the upper part 11, said upper part is held against warping.

A comparatively simple and inexpensive body portion is thus provided for the polisher, and over the same is applied a facing or covering 17, which is preferably of textile material, such as ducking, or the like. This material is cut somewhat wider and longer than the body portion of the device, and is stretched over the under side and around the edges thereof, the marginal portions of said material lapping onto the upper side of the body portion, as best shown in Fig. 6, the side marginal portions 18 being first lapped over the body portion and then the end portions 19, said end portions lapping over the

side marginal portions. The end portions are tacked to the upper part 11 of the body portion, as shown at 20. The body portion thus covered has a finishing block 21 applied to its upper side so as to cover the edges or marginal portions of the facing or covering 17, as clearly shown in Figs. 2 and 3, this finishing block being fastened to said body portion by means of screws 22 passed through said finishing block at the corners thereof and threaded into the upper part 11 of the body portion.

23 designates a connector member formed of wire; the connector member having a transverse portion 24 and parallel securing prongs 25 at opposite ends of said transverse portion, the prongs being driven through the finishing block 21 and into the body portion, as clearly shown in Fig. 3. The transverse portion 24 is offset between its ends, as at 26, and clamped onto said offset portion is a handle socket 27 into which a handle 28 is thrust and, if desired, secured, for manipulating the polisher. The particular construction of handle socket shown, forms no part of this invention, but it may be stated that its outer end is formed of two spaced parts having the offset portion of the connector member 23 clamped therebetween, the clamping effect, however, being such as to allow the handle to be swung over either end of the polishing head, comprising the parts 10, 17 and 23, and other parts to be presently described.

Stretched over the under side of the body portion 10 is a polishing element 29 which is somewhat longer than the body portion 10, so that it is directed upwardly against opposite ends of said body portion and thence inwardly so that its extremities lie in contact or in close proximity to opposite edges of the finishing block 21.

Said polishing element is fastened to the covered body portion by means of snap fasteners, to be hereinafter more particularly described, and in the main, is constructed of wool, preferably knitted into tubular formation, and having its two halves lying in contact with each other to form two layers 30, 31. These layers are shown lying in contact with each other in Fig. 4, and separated in Fig. 9 to better illustrate the construction of the polishing element. To opposite ends of this wool portion, leather or other suitable material, such as shown at 32, is sewed thereto. In this manner a substantial binding is applied to each end of the wool portion of the polishing element.

At each end of each binding, one part 33 of one of said three-part fasteners is secured. Each part 33 has a shank 34 passed through a binding, and at opposite ends of said shank, snap sockets 35 are formed which are disposed at opposite sides of the binding, or broadly considered, they may be said to extend from opposite sides of the polishing element. Within these snap sockets, the usual open spring rings 36 are provided. A second part of each of said three-part snap fasteners is fastened into the upper part 11 of the body portion 10, said second part being designated by the numeral 37 and having a head 38, and a screw shank 39 which is threaded into said body portion. The lower snap sockets 35 of the polishing element are adapted to be forced over the heads 38 of the fastener parts 37, and in this manner the polishing element is securely fastened at opposite ends to the body portion of the device.

Stretched over the under side of the polishing element 29 is a waxing element 40, which is formed of any suitable material, preferably two thicknesses or layers of ducking, similar to the covering material 17, the marginal portions of said layers being preferably stitched together. This waxing element is also stretched around the ends of the body portion having the polishing element 29 applied thereto, as at 41, and the end portions are lapped over the end portions of said polishing element, as at 42. At each end of said waxing element is a pair of fastener parts 43 having heads 44 on the inner side of the waxing element, adapted to enter the upper snap sockets 35 of two of said fastener parts 33. The polishing element 29 is therefore covered by the waxing element 40 and serves as a padding for the latter.

As shown in the drawing, there are four snap fasteners. The fastener parts threaded into the body portion are male parts, the fastener parts secured to the polishing element 40 are also male parts, while the fastener parts 33 fastened into the bindings at opposite ends of the polishing element are double-ended female parts, one end of each part 33 being adapted to receive a fastener part 38 and the other a fastener part 43. It will be apparent from this that the waxing element can be conveniently applied to or be removed from the fastener parts secured to the polishing element, and that the polishing element can be conveniently applied to or be removed from the fastener parts 37 applied to the body portion 10 of the device.

By reason of the fastener parts 33 of the polishing element being double headed, the polishing element may be reversed whenever desired, and, if desired, the fastener parts 43 secured to the waxing element may also be double headed, although shown with a single head. When the fastener parts 43 are formed with double heads, one at each side of the waxing element, the latter may be reversed.

It will be quite apparent that by reason of constructing the parts 11, 12 and 13 of wood, the facing or covering 17 and the finishing block 20 may be conveniently secured to the body portion of the device, and this is also

true of the connector element 24, and the fastener parts 37 of the three-part fasteners.

While the securing of the metallic member 14 to the under side of the upper member 11 of said body portion gives the device the proper weight so that the operator need not apply pressure to the device while manipulating the same back and forth over a floor, if desired, the body portion may be given the necessary weight in any other approved manner, although the manner in which the metallic member 14 is applied to the body portion has advantages in that it adds to the durability of the wooden part of said body portion.

It will also be apparent that the forcing of the parallel end prongs of the connector member 24 through the finishing block and into the body portion 10, will provide a secure connection for the handle.

By arranging the waxing element so as to overlie the polishing element, the latter serves to cushion the waxing element, thereby providing a surface which is yielding to a certain degree and conforms itself to any slight irregularities in the surface being polished.

In the use of the device, polishing wax is spread over the exposed surface of the waxing element, and the polisher is then moved back and forth over the surface of the floor until the wax is evenly distributed, and all dirt has been removed from the floor. The waxing element is then removed from the head of the polisher and the floor polished with the polishing element. It will therefore be seen that this device is an exceedingly simple one and convenient to use.

Having thus described my invention, what I claim is:—

1. A floor polisher, comprising a head having a body portion provided with male snap-fastener parts on its upper side near opposite ends thereof, a flexible element stretched over the under side of said body portion, around the ends thereof, and having its end portions lapped onto the upper side of said body portion and provided with double-ended female snap-fastener parts arranged at opposite sides of said flexible element, the ends at the inner side of said flexible element being adapted to receive the male snap-fastener parts on said body portion, and a waxing element padded by said flexible element and stretched over the latter and provided with male snap-fastener parts at opposite ends adapted to be snapped into the outer ends of said double-ended snap-fastener parts.

2. A floor polisher, comprising a body portion constructed of a flat wooden part, two spaced flat wooden members applied to the under side of said wooden part and a flat metallic member also applied to the under side of said wooden part between said spaced wooden members, the under side of said flat wooden members and said flat metallic member being flush, covering material applied to said body portion, a handle fastened to the upper side of said body portion, and a flexible element stretched across the under side of the covered body portion and detachably secured thereto.

3. In a floor polisher, a body portion comprising a flat upper part constructed of wood and a flat lower part secured to the under side of said upper part and comprising two parallel spaced members constructed of wood and a metallic member between said parallel spaced members, the grain of said parallel spaced members being at an angle to the grain of said upper part, textile material covering the under side and the edges of said body portion, and a flexible element applied to the so-covered body portion, said flexible element being stretched over the under side and the edges of said body portion and being detachably secured to the upper side thereof.

4. A floor polisher, comprising a polishing head formed of wooden and metallic parts, a connector formed of wire and having a transverse portion and two end prongs, said end prongs being driven into said body portion from the top, a handle fastened to said connector, and a flexible element stretched over the under side of said body portion, around opposite edges thereof, and having its end portions lapped onto the upper side of said body portion and detachably secured thereto.

5. A floor polisher, comprising an oblong body portion, a flexible element stretched over the under side of said body portion, around the edges thereof, and having its end portions lapping onto opposite end portions of the upper side of said body portion, disconnectable fasteners connecting the ends of said flexible element to the upper side of said body portion, a block applied to the upper side of said body portion between the ends of said flexible element, a connector formed of wire and having a transverse member and securing prongs at opposite ends of said transverse member, said securing prongs being passed through said block and driven into said body portion, and a handle pivotally connected to said connector.

6. A floor polisher, comprising a body portion constructed of a flat piece of wood, two additional flat pieces of wood nailed to the under side thereof and spaced apart, a metallic flat member between said two additional flat pieces of wood screwed to the under side of said first-mentioned flat piece of wood, covering material facing the bottom, the edges and part of the upper side of said body portion, a block applied to the upper side of said body portion and covering the uncovered portion thereof, a handle pivotally secured to the upper side of said block, and an overlying flexible element stretched over the under side of the so-covered body portion.

7. A floor polisher, comprising a body portion, a handle secured to the upper side of said body portion, overlying flexible elements stretched over the under side of said body portion, around the edges thereof and lapping the upper side of said body portion with opposite ends, and snap fasteners, each having three parts, corresponding fastener parts being attached to said body portion, corresponding fastener parts being applied to the inner of said overlying flexible elements and adapted for connection with the fastener parts on said body portion, and corresponding fastener parts fastened to the outer of said overlying flexible elements and adapted for connection with the fastener of the inner of said overlying flexible elements.

In testimony whereof I affix my signature.

HENRY V. SCHAEDEL.