

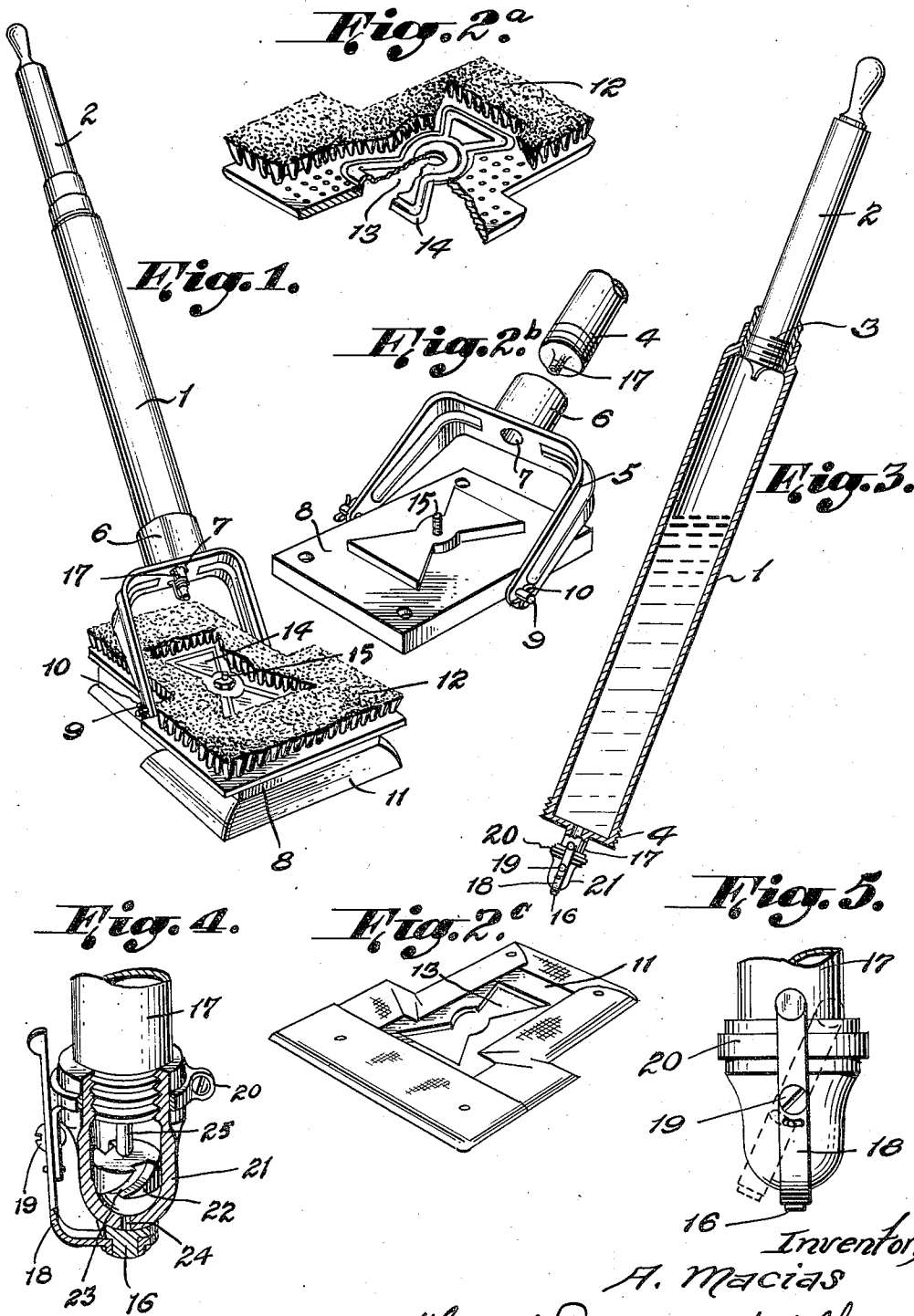
July 21, 1942.

A. MACIAS

2,290,375

FLOOR POLISHING APPARATUS

Filed Dec. 14, 1938



Inventor,
A. Macias
Glascock Downing & Seibold
By: Attorneys.

UNITED STATES PATENT OFFICE

2,290,375

FLOOR-POLISHING APPARATUS

Adolfo Macias, Buenos Aires, Argentina

Application December 14, 1938, Serial No. 245,799
In Argentina August 20, 1938

1 Claim. (Cl. 15—131)

The present invention relates to floor-polishing apparatus and has essentially for its object to provide an improved apparatus of this kind comprising means for distributing over the floor, or other surface, a wax or like polishing material, and means for carrying out the polishing operation proper, the wax or other polishing material supply being contained within a container simultaneously forming the handle of the apparatus and provided with a spraying nozzle or the like.

The polishing means comprises a unit formed of a brush and a polishing cloth or the like, which elements may be used alternately, or successively for polishing the floor or other surface. The brush, as well as the cloth or the like are secured and mounted so as to be interchangeable after having become worn out by use, the connection between these parts being effected by means of a metal plate to which are secured the brush as well as means supporting the cloth.

A salient feature of the present invention resides in that the handle of the device is separable and constitutes a means for applying the wax, or other polishing material, to the surface to be polished.

A further feature of the invention lies in the fact that the brush is provided with a further operative face constituted by a cloth, or the like, both operative faces being inter-exchangeable.

In order that the present invention may be clearly understood and readily carried into practice, one sheet of drawings is appended illustrating one preferred form of embodiment thereof. In this drawing:

Fig. 1 is a perspective view of the complete apparatus according to the invention, mounted and ready for use.

Fig. 2a is a perspective showing with parts cut away of the brush removed from its seat, clearly illustrating its construction, and the central base plate.

Fig. 2b is a further perspective view of the base member of the brush and of the connecting stirrup or U-shaped member which connects the base to the handle, part of which is seen in the drawing.

Fig. 2c is another perspective view of the other separable face of the base to which is secured the polishing cloth, or the like.

Fig. 3 shows in longitudinal section the wax-spraying device which simultaneously forms the handle of the apparatus.

Fig. 4 is an enlarged view partially in section, of the lower end of the supply of polishing ma-

terial receiving handle, showing the spray device and valve thereof.

Fig. 5 illustrates the said valve in side view.

Referring to these figures, wherein like or corresponding parts are denoted by similar characters of reference, the handle of the apparatus is formed of a tubular member 1 provided with a piston 2 which at its lower end is screw-threaded and may be secured in the position shown whenever necessary. The screwed end is indicated at 3.

At the lower end of the tubular member 1 the same is formed with screw threads 4 with the aid of which the tubular member is secured to, or screwed into the cylindrical boss 6 of the connecting stirrup 5. The lower end of the tubular member 1 is provided with a tube 17 which extends through a perforation or channel 7 formed in the material of the stirrup 5.

The connecting stirrup 5 at the ends of its legs is formed with holes through which project trunnions 9, the parts being kept together in position by means of cotter keys 10.

To one side of the base member 8, which is of rectangular outline, is secured a plate member 11, of T-shape, to which is secured a polishing cloth, or the like. At the other face of said base member 8 there is secured a brush 12 having a shape similar to that of the mounting plate 11. Both elements are secured to the base member in the following manner:

Both of the two T-shaped members, 11 and 12, respectively, are formed with a cut portion in the shape of two triangles 13 connected at their apexes, and into each of such cut out portions fits a plate 14 similarly shaped. A threaded bolt 15 extends through the base member 8 and both plates 14 seated within the cut portions 13 and serves to tie these elements firmly together with the aid of a nut screwed onto the bolt 15. In order to avoid that the polishing material contained within the handle 1 might drop out when the apparatus is not in use, a closure 16 is provided so as to close the outlet 24.

The said closure 16 is secured to an arm 18 rotatable on pivot screw 19 which is screwed into the clamp 20 secured to the nozzle 21 which is screwed onto the tube 17. Within the nozzle 21 there is arranged a cylindrical distributing device 22 formed with helically projecting cuts 23 facilitating emission of the spray. A stem 25 integral with the said device 22 facilitates withdrawal of the latter when necessary.

The operation of the apparatus according to the invention is as follows:

Assuming the supply-containing handle 1 is filled with polishing material, this part of the unit is separated, by unscrewing it at 3, and the polishing matter is sprayed over the floor, or other surface using the piston 2 to compress the polishing matter within the handle 1 and causing same to be ejected therefrom as needed. Thereafter, handle 1 is again replaced by screwing its end 4 into the said boss 6 of the connecting stirrup.

On account of the asymmetrical form of the base member 8, when being lifted, it will by itself assume a vertical position and by imparting a slight swinging impulse thereto its position relative to the floor may be changed, that is to say either with the brush portion or with the cloth covered portion in contact with the floor. When it should be desirable or necessary to replace either the brush or the cloth, or both, the nut

on bolt 15 is loosened and withdrawn and thereafter the elements may be taken apart and any necessary replacement can be easily effected.

Obviously, there may be introduced modifications of detail and construction without exceeding the spirit and scope of the invention as clearly defined in the appended claim.

What I claim is:

In a device for polishing floors and other surfaces, a handle having a hollow cylindrical portion for receiving a supply of polishing liquid, a tube extending from the lower end of said cylindrical portion, a piston forming a handle having a threaded end portion for connection with said cylindrical portion and adapted upon disconnection therefrom to be moved within the cylindrical portion for forcing liquid through said tube, and movable means for closing said tube.

ADOLFO MACIAS.