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2,234,805

WAXING TOOL

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Fig. 1.

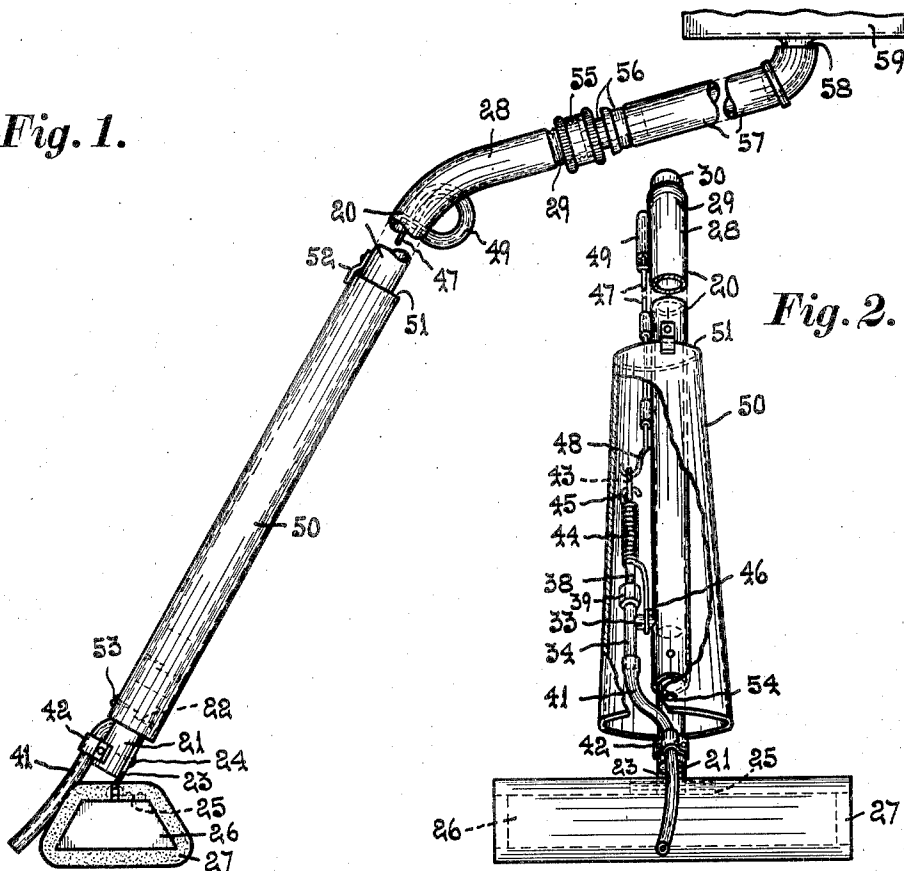


Fig. 2.

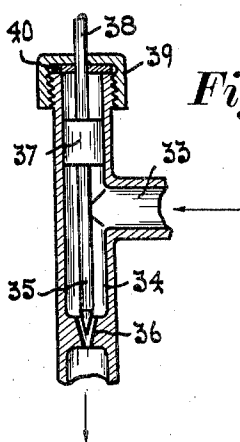


Fig. 3.

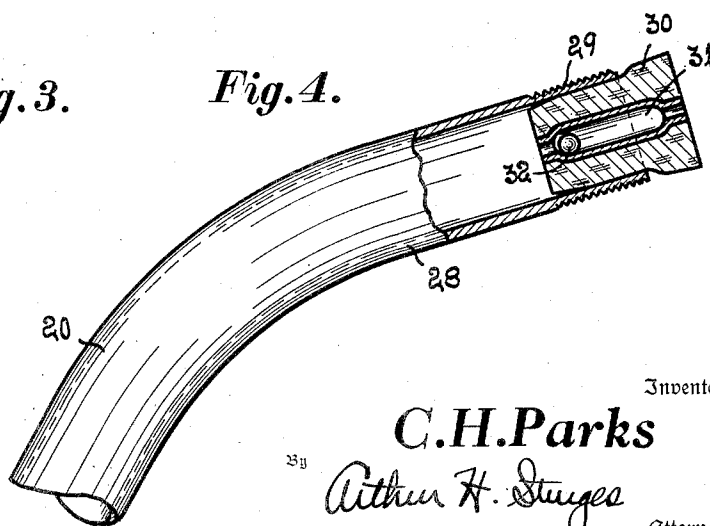


Fig. 4.

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WAXING TOOL

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2 Claims. (Cl. 91-25)

The present invention is connected with the cleaning and polishing art and relates more particularly to devices and apparatuses for applying wax to floors and has for an object to provide means whereby liquid wax may be applied expeditiously and with a minimum amount of labor to floors, table tops and the like for providing the latter with a lustrous appearance and also for providing an advantageous dancing surface to floors.

Another object of the invention is to provide a device for the above stated purposes having an adapter whereby the device may be connected readily to a large container of liquid wax carried on the shoulder or strapped to the upper portion of the torso of an operator for waxing large floor surfaces and which may be also quickly disconnected from said container for conventional use in kitchens, small rooms and the like, the supply of wax, for such use, being carried in a dual purpose, hollow, tubular handle whereby an operator while in an erect standing position may wax said surfaces without the necessity of kneeling or bending downward.

A further object of the invention is to provide means associated with the said device whereby wax is directed onto a floor adjacent the medial portion and at one side of a distributing pad employed.

Further and other objects and advantages of the invention will be understood from the following detailed description thereof, reference being had to the accompanying drawing wherein:

Figure 1 is a side elevation of the new device connected to a fragment of a container, a portion of a handle employed being broken away.

Figure 2 is a front elevation of the device shown in Figure 1, said container and a hose connection employed being omitted.

Figure 3 is a longitudinal vertical section of a needle valve employed.

Figure 4 is a view partly in section of a fragment of said tubular handle and showing a ball check valve employed at times positioned in the upper end of said handle.

Comparatively recently a number of liquid wax preparations have appeared on the open market which flow freely and which do not require rubbing, said preparations being such that they may be applied to a surface and upon becoming spread over said surface dry rapidly and provide said surface with brilliancy and sheen and the present invention aims to provide a means for spreading said preparations evenly and rapidly upon said surfaces with a minimum amount of labor.

In the drawing 20 indicates an elongated, hollow tubular handle, one end of which is provided with a plug 21 preferably made of wood having a portion secured within the handle by any suitable means such as the screws 22. A portion of the wooden plug 21 extends beyond the permanently plugged end of the handle 20 and a leaf 23 of a hinge is secured to said plug by means of the screws 24. The other leaf 25 of said hinge is secured by any suitable keepers such as screws or the like to an elongated block 26 adjacent the medial portion of said block.

A pad 27 formed of carpet, coarse felt or the like is secured to the block 26 and substantially encircles the longitudinal length of said block.

That end of the handle 20 which is furthest away from the block 26 is provided with an off set portion 28 which may be readily grasped in the hand of an operator for moving the block over and upon the surface of a floor, said off set end being provided with screw threads 29 for purposes later described.

The threaded end of the handle is adapted to receive a cork plug 30 through which a tube 31 is disposed. Both ends of the tube 31 are restricted, as shown in Figure 4, for preventing a ball 32 disposed in said tube from coming outwardly of the tube. As thus described it will be noted that air is permitted to enter the handle 20 through the tube 31 at times when said handle is in the position shown in Figure 1, and that when turned up-side-down the check-valve ball 32 prevents a liquid wax contained in the handle 21 from flowing outwardly through the tube 31 and on to the clothing or hands of an operator.

The lower end of the handle 20 is provided with an outlet port conduit 33, as best shown in Figure 2, and as best shown in Figure 3, said outlet port is in communication with a valve housing 34. Within the housing 34 a needle valve 35 is adapted to reciprocate and at times when the pointed end of said needle is disposed against its valve seat 36 liquid wax is prevented from flowing outwardly of the handle 20. The needle is provided with a guide 37 slidably disposed within the valve housing 34, said needle having an end 38 disposed outwardly of said housing and through a nut 39, the latter also providing a guide bearing for said needle. Between the nut 39 and the adjacent end of the valve housing 34 a packing washer 40 is disposed.

That end of the valve housing 34 which is opposite to the nut 39 receives thereover one end of a flexible conduit 41 formed of rubber. As best shown in Figure 1, a clip 42 is secured to

the wooden plug 21 by any suitable means such as screws or the like and the conduit 41 slidably extends through said clip whereby liquid wax released through the valve housing 34 is delivered to the floor medially of the longitudinal length of the block 26 for facilitating spreading of said wax upon a floor and it will be noted that the outer end of the conduit 41 is adapted to deliver wax in front of said block at times when the latter is flat upon a floor and at times when said handle is vertical or in a position of inclination with respect to said floor.

The end 38 of the needle 35 is provided with an eye 43, as best shown in Figure 2. A spring 44 is coiled about the end 38 of the needle 35 and provided with a hook 45 which is engaged in the eye 43 and a second hook 46 is disposed at the other end of the spring 44. The hook 46 engages about the walls of the outlet port 33 for normally causing the pointed end of the needle to be urged toward the valve seat 36 for normally maintaining the valve closed at all times except when opened by a means later described.

A pull rod or wire 47 is provided with a hook 48, the latter being engaged in the eye 43, said pull rod being disposed in alignment with the handle 20 and having an end opposite to the hook 48 provided with a finger hold portion or eye 49, said portion being encased in rubber and as thus described it will be understood that the operator while manipulating the device places the palm of his hand about the off set portion 28 of the handle 20 and may place his index finger through the eye 49 for moving the pointed end of the needle away from the seat 36 and against the urge of the spring 44 for permitting liquid wax to flow outwardly of the tubular handle 20 and through the flexible rubber conduit 41.

For household use and for waxing floors of comparatively small areas the device is assembled as shown in Figure 2, the cork 30 being employed and as thus described it will be noted that the operator may incline the handle 20 to any selected angle with respect to the floor and if desired may permit the handle to extend in parallelism with said floor for moving the pad 27 under kitchen cabinets and the like for reaching portions of the floor otherwise not readily accessible.

The valve housing 34 and mechanism adjacent thereto is comparatively fragile and for preventing injury thereto a hollow casing 50 is disposed about the handle 20 and encircles said valve housing for preventing injury to the latter and for preventing said valve housing from striking the legs of tables and the like during waxing operations.

In order to position the casing 50 it is slipped over the off-set end 28 of the handle 20 and down against the pad 27; whereupon it is again moved upwardly and towards the off-set 28 of the handle whereby the upper edge 51 of the casing 50 engages in under a detent 52, as best shown in Figure 1; whereupon a screw 53 is placed through a suitable aperture 54 and engaged into the wooden plug 21 for holding the guard housing 50 stationary and in a position of use.

For use in waxing large floors whereby a number of workmen are necessary to cover such floors with wax a plurality of the above described devices are employed and from each of which the cork plugs 30 are omitted and pipe couplings 55

are attached to the handles 20 by means of the threads 29 carried by each of the said handles.

The pipe coupling 55 carries a pipe bushing 56 the latter being inserted into one end of a length of hose 57, the other end of said hose being connected to an outlet nipple 53 of a container 59. The container 59 may be of any suitable capacity for holding several gallons of liquid wax. In use the container may be carried by one arm of an operator or strapped to his shoulder as desired, whereby one hand of said operator is free for manipulating the device when the latter is grasped at the off set portion 28 of the handle. For waxing floors of large areas the liquid wax flows from the container 59 through the tubular handle 20 to the valve housing 34 and is released therefrom as above described.

From the foregoing description it is thought to be obvious that a waxing applicator and polishing device constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish it to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as claimed.

I claim:

1. A waxing tool comprising a block, a pad secured to said block adapted to bear upon the surface of a floor or the like, an elongated handle having an end connected to said block, said handle being of tubular construction adapted to contain a supply of liquid wax therein and provided with an outlet adjacent said connected end, a flexible conduit in communication with said outlet for directing wax onto said floor adjacent the medial portion of and at one side of said block, the other end of said handle being open, a valve for governing a flow of said wax through said outlet, a spring for causing said valve to normally remain closed, a pull rod or the like associated with said valve for opening the latter, a plug for normally closing said open end of said handle, and a check valve which is so constructed and arranged that air is permitted to enter said handle adjacent said plug through said check valve for permitting the liquid wax to flow outwardly of said outlet and said wax is prevented from flowing outwardly of said handle through said check valve.

2. A device for the purpose described comprising a block, a pad secured to said block for contact with the surface of a floor or the like, an elongated tubular handle adapted to contain liquid wax therein, one end of said handle being pivotally attached to said block, a valve carried by said handle for governing a flow of wax outwardly of said handle, a pull rod associated with said valve and handle for operating said valve, a flexible conduit in communication with the outlet of said valve for directing liquid wax onto said floor adjacent the medial portion of and at one side of said block, said valve being disposed at one side of said handle, and a guard housing removably connected to said handle disposed about said valve for preventing contact of the latter with furniture and the like during waxing operations.