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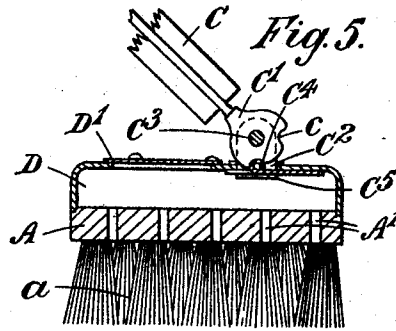
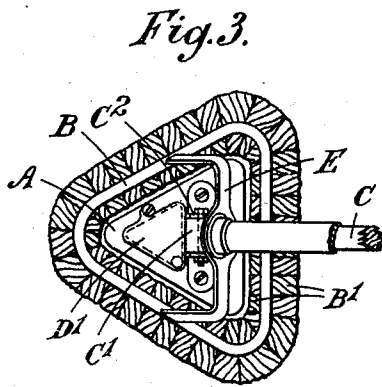
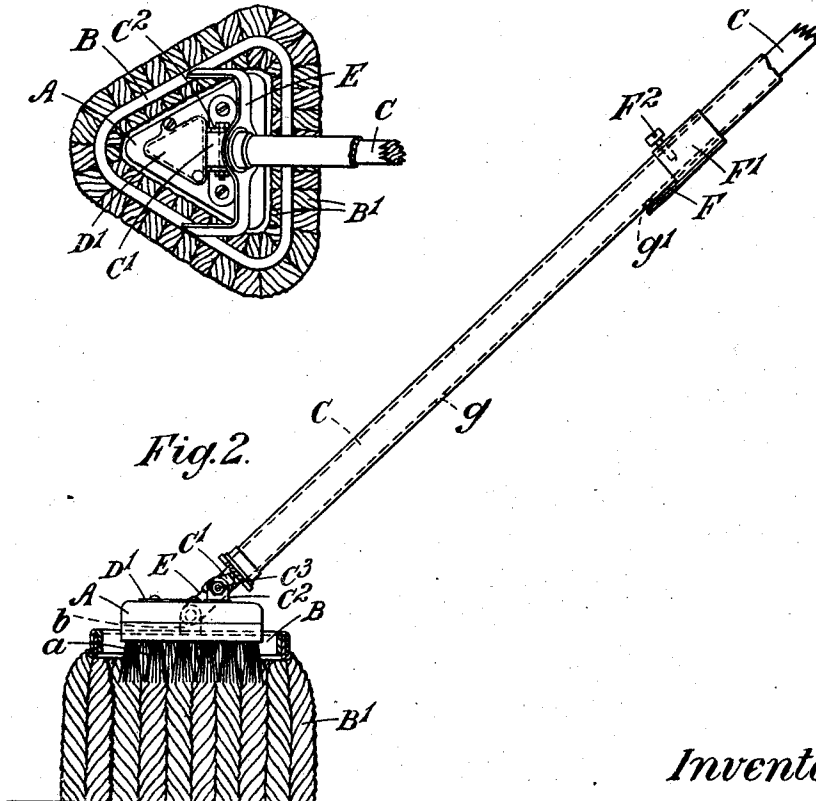
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CLEANING APPLIANCE FOR FLOORS AND OTHER SURFACES

Filed March 30, 1925

2 Sheets-Sheet 2



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CLEANING APPLIANCE FOR FLOORS AND OTHER SURFACES.

Application filed March 30, 1925. Serial No. 19,440.

To all whom it may concern:

Be it known that I, MARY ANN EMILY MAYES, subject of the King of Great Britain, residing at 10 Beverstone Road, Brixton, London, S. W. 2, England, have invented certain new and useful Improvements in Cleaning Appliances for Floors and Other Surfaces, of which the following is a specification.

This invention relates to appliances for cleaning floors and similar surfaces, and has for its chief object to provide an appliance by which the floor or other surface can be washed or scrubbed and then dried or polished.

According to the present invention the appliance comprises two relatively movable stocks or heads such as a brush or scrubber and a mop mounted upon a common handle or shaft, means being provided whereby one of the heads can be moved relatively to the other without being detached from the shaft so that each head or stock can be placed in a position for use as required and a floor or other surface can be scrubbed or washed and then dried or polished by a single appliance with speed and ease.

A further object of the present invention is to provide means whereby soap or a saponaceous cleansing composition or material can be supplied automatically to a brush or scrubbing device as required.

Referring to the accompanying drawings:—

Fig. 1 is a sectional elevation of a cleaning device or appliance embodying the present invention, and comprising a brush stock and a mop, the brush or scrubber being shown in position for use.

Fig. 2 is a similar view to Fig. 1 but showing the mop in position for use.

Fig. 3 is a plan of the device shown in Figs. 1 and 2 and

Figs. 4 and 5 are sectional elevations, drawn to a larger scale than Figs 1 to 3, and showing details of the appliance.

A is the brush, B the mop, C the handle or shaft and D the container for the soap or cleansing material.

The brush A having bristles or similar scrubbing agents *a* comprises a stock which is preferably of triangular form so that it can be used in corners or in confined areas, and it is coupled to the shaft C by a joint

so that the shaft may be placed at various angles to the brush itself.

This joint comprises, conveniently, a head or boss C' which is secured to the lower end of the shaft C and is coupled to the two up-standing arms C² of a bracket by means of a pin C³ which is passed horizontally through these arms and through the centre of the boss C' which is conveniently of cylindrical form. This allows the shaft C to be moved at any angle relatively to the brush.

In order that the shaft, when once set in the desired position, may not be displaced accidentally, a locking device is provided to retain the shaft, for example, either in the position shown in Fig. 4 or in Fig. 5. In the present embodiment this locking device comprises a horizontally arranged pin C⁴ which is adapted to engage with one or other of notches or grooves *c* in the boss C', and this pin is forced into such grooves by means of a plate spring C⁵.

The mop B comprises a triangular frame which can pass over the head of the brush or allow the latter to pass freely through it. The strands B' of the mop are secured to this frame in any convenient manner.

This mop stock or head is pivotally connected to a tubular member G mounted upon and capable of being moved relatively to the shaft C.

At the lower end of this tube G is attached a forked member E to the lower ends of the arms of which lugs *b* secured to the head B are pin-jointed or pivotally secured. By this means the head B is allowed to hang vertically when not in use and also allows the shaft C to rest at any angle when the mop is in use.

When it required to use the brush or scrubber A, the tube G is moved upward on the shaft C and draws the mop with it clear of the brush as shown in Fig. 1.

A locking device is provided for the mop to prevent it from moving down when not required. In the present embodiment of the invention this locking device comprises a spring catch F mounted upon a sleeve or ring F' secured to the shaft C by a screw or the like F² which passes through a longitudinal slot in the tube G and into the shaft C. The free or forward end of the catch F is adapted to engage a notch *g* or *g'* situated in the tube G at points coinciding with the two

positions of the mop B. When the mop is raised to the upper or out of use position (see Fig. 1) the catch F engages the notch g.

When it is desired to use the mop, the tube G is moved downward so that the mop is pushed beyond the brush A and into position for use as shown in Fig. 2.

In this position the catch F will engage with the notch g' and the mop can be used on the surface under treatment and the brush is in a position which it does not interfere with the operations of the mop.

It is often desirable that soap or similar material is required to be applied to the surface being cleaned while the brush or scrubber is in use.

Means are provided by the present invention for accomplishing this in a simple, efficient and self-acting manner.

On or at the upper side of the brush stock A is mounted a casing or container D which is adapted to hold pieces of soap or cleaning material. This casing or container is furnished with a lid or cover D' through which the cleansing material may be inserted. A convenient number of openings or passages A' are provided in the brush stock so that they are in communication with the interior of the container D and their lower ends are at the base of the brush bristles or the like. Thus when the brush is dipped in water a portion of this water enters the container D and then on the brush being used to scrub this water carries a portion of the soap or the like down to the bristles and distributes it.

The soap or cleansing material may be in powder form and the container may have a perforated bottom to prevent an undue quantity of the powder passing out at any time.

What I claim is:—

1. A scrubbing and cleaning appliance, comprising a shaft; an elongated tubular member fitting telescopically over the shaft and slidable on the same in either direction; a cleaning device connected to the lower end of the shaft; and a cleaning device connected to the lower end of the tubular member for movement bodily therewith, whereby it may be selectively projected or retracted into or out of a common working position with the first cleaning device.

2. A scrubbing and cleaning appliance, comprising a shaft; an elongated tubular member fitting telescopically over the shaft and slidable on the same in either direction; a cleaning device connected to the lower end of the shaft; a cleaning device connected to the lower end of the tubular member for movement bodily therewith, whereby it may be selectively projected or retracted into or out of a common working position with the first cleaning device; and a device for selectively locking said tubular member in dif-

ferent definite positions on said shaft corresponding to the working and non-working positions of its said cleaning device.

3. A scrubbing and cleaning appliance, comprising a shaft; an elongated tubular member fitting telescopically over the shaft and slidable on the same in either direction; a cleaning device connected to the lower end of the shaft; and a cleaning device pivotally connected to the lower end of the tubular member for movement bodily therewith whereby it may be selectively projected or retracted into and out of a common working position with the first cleaning device, and for independent swinging movement to one side of said first cleaning device when said tubular member is in raised position.

4. A scrubbing and cleaning appliance, comprising a shaft; an elongated tubular member fitting telescopically over the shaft and slidable on the same in either direction; a brush connected to the lower end of the shaft; and a mop head pivotally connected to the lower end of the tubular member for movement bodily therewith, whereby it may be selectively projected or retracted into and out of a common working position with the brush, and for independent swinging movement to one side of the brush when said tubular member is in raised position.

5. A scrubbing and cleaning appliance, comprising a shaft; a tubular member telescoped over and slidable axially on the shaft, an annular mop head connected to one of said elements; and a brush connected to the other element and movable through the mop head during and consequent upon the sliding movement of the tubular member.

6. A scrubbing and cleaning appliance, according to claim 5, in which the mop head is pivoted to the arms of a fork secured to the end of the tubular member to enable it to swing to one side of the brush when said member is in raised position on said shaft.

7. A scrubbing and cleaning appliance, comprising a shaft having a pair of notches at widely-spaced points; a tubular member telescoped over the shaft; a cleaning device carried by the shaft; a cleaning device carried by the corresponding end of the tubular member, said tubular member being slidable in either direction on said shaft to project its cleaning device into a common working position with the cleaning device on the shaft or to retract it from such position; and a collar attached to the tubular member and provided with a spring catch engageable in either of two different definite positions corresponding to the two positions of its cleaning device.

In testimony whereof I affix my signature.

MARY ANN EMILY MAYES.