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C. E. MAIN

1,928,496

CLEANING DEVICE

Filed Nov. 18, 1932

FIG. 1

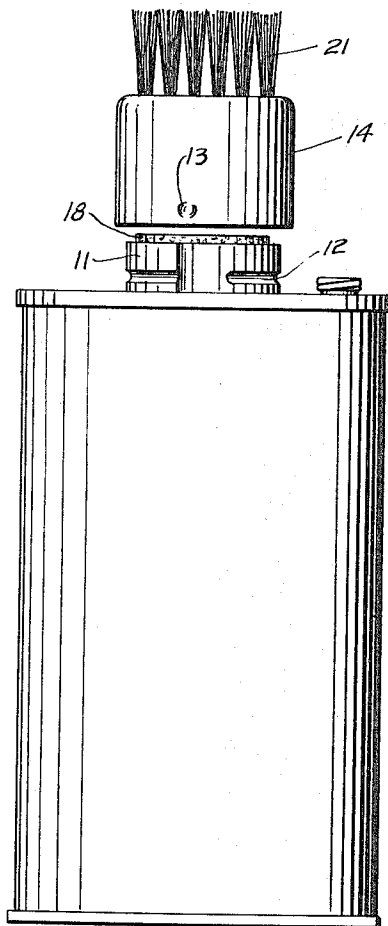


FIG. 2

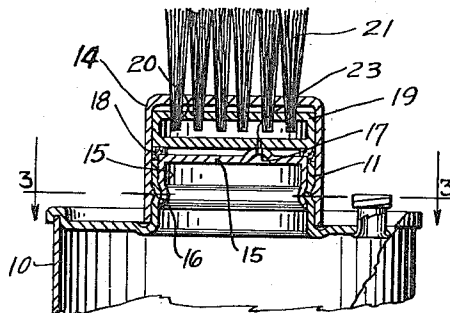


FIG. 3

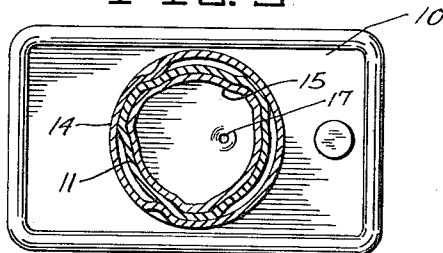


FIG. 6

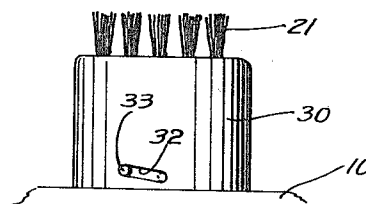


FIG. 7

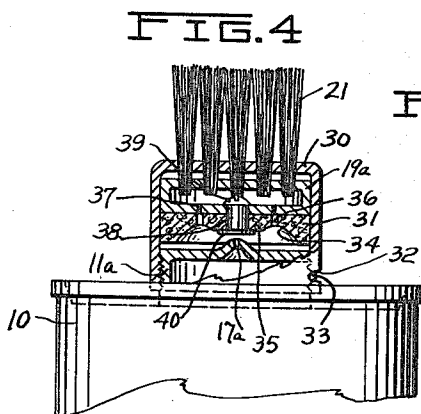
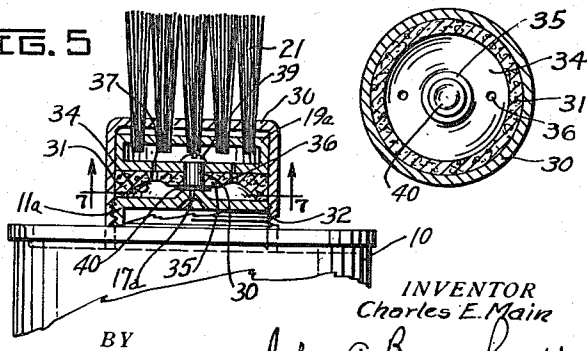


FIG. 5



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CLEANING DEVICE

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Serial No. 643,127

2 Claims. (Cl. 15—138)

My invention relates to a receptacle with a self contained brush in the cap for dispensing and brushing a cleaning fluid over materials, etc., to remove spots.

One object being to provide a construction that is both novel and cheap to manufacture.

A further object of the invention is to provide a means whereby the cleaning fluid may be retained and released only as it is to be used in conjunction with the brush.

Other objects and advantages will be apparent from the following specification and the accompanying drawing, in which:

Figure 1 is a side elevation of a container with the brush contained cap in position to be turned on the neck; Fig. 2 is a sectional view showing the cap in position; Fig. 3 is a view partly in section and taken on lines 3—3 of Fig. 2; Fig. 4 is a modification of Figs. 1 to 3 and shows the cap in section with the fluid ports open to dispense the cleaning fluid when the container is inverted; Fig. 5 is a similar view to Fig. 4 with the cap in position and the fluid port closed; Fig. 6 is a side elevation of the modified cap, showing the pin and slot arrangement which prevents excessive turning of the cap and prevents leakage; Fig. 7 is a section taken on lines 7—7 of Fig. 5.

Referring specifically to the drawing, a container 10 has a neck 11 grooved or indented at 12 to receive a projection 13 in a cap 14; an inner vent cap 15 is pressed within the said neck 11 and grooved at 16 to fit the inside curve of groove 12, said vent cap has a fluid vent 17 projecting outwardly therefrom and slightly away from its center. Vent cap 15 projects slightly above the neck 11 and has mounted thereupon a flanged washer 18 preferably made of rubber or cork.

Cap 14 has mounted within itself a hollow reservoir 19 with a plurality of apertures 20 through which the bristles 21 are mounted after they are projected through apertures 22 in the top surface of cap 14. A fluid port 23 in the reservoir 19 forms a passage way for the fluid into reservoir 19 from the container 10 as the cap 14 is turned upon the neck 11 in such manner as to cause the fluid vent 17 to be opened into the open port 23 of said reservoir 19.

Inverting the container 10 feeds the fluid through the bristles 21 and on to the material to be cleaned.

A circular motion of the bristles 21 causes the fluid to loosen the dirt, grease, etc., and cleans the spots.

In the modification shown in Figs. 4 to 7 the

change resides only in the method of attaching the cap 30 to the neck 11a, and in substituting a secondary port reservoir 31 for the former washer 18.

The cap 30 is threaded internally to screw upon the neck 11a and has a slot 32 through which a pin 33 attached to said neck 11a projects. This prevents any excess turning and prevents leakage.

The secondary port reservoir 31 is preferably made of cork and is grooved at 34 with a flat center 35 which projects upward from the base of said groove.

A plurality of ports 36 through said secondary port reservoir intersect smaller ports 37 in reservoir 19a, said reservoirs 19a and 31 being attached together by a threaded copper rivet 38 and screw 39.

The head 40 of the rivet 38 forms a seat for the fluid vent 17a when the cap 30 is turned on the neck 11a and prevents more fluid from flowing into the reservoir.

The container 10 may be of the refillable type as shown in Figs. 1 to 3, or the non-refillable type as shown in Figs. 4 to 7.

In operation the cap is turned to register the ports 17 and 23 in the form shown in Fig. 2, or to open the ports 17a and ports 36 and 37 as in Fig. 4, and when the container is inverted the reservoir 19 or 19a will fill with the liquid, and can then be cut off if desired, by turning the cap back, and then by applying the brush to the article to be cleaned the liquid in the reservoir will feed down through the bristles to the surface to be cleaned.

I claim:

1. A cleaning device comprising a container having a neck, an inner cap on the neck and having a vent in the top, an outer cap arranged to be turned on the neck, a separate closed reservoir between the inner and outer caps and having a port adapted to be registered with the vent to receive fluid therefrom when the cap is turned to a certain position, and a brush carried by the outer cap and extending at its rear end through the outer wall of the reservoir to receive fluid therefrom.

2. A cleaning device as in claim 1, the brush consisting of bristles extending through the top of the cap and into the reservoir.

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