

April 5, 1932.

W. A. PAINTER

1,852,216

MOP CLEANING DEVICE

Filed March 9, 1931

2 Sheets-Sheet 1

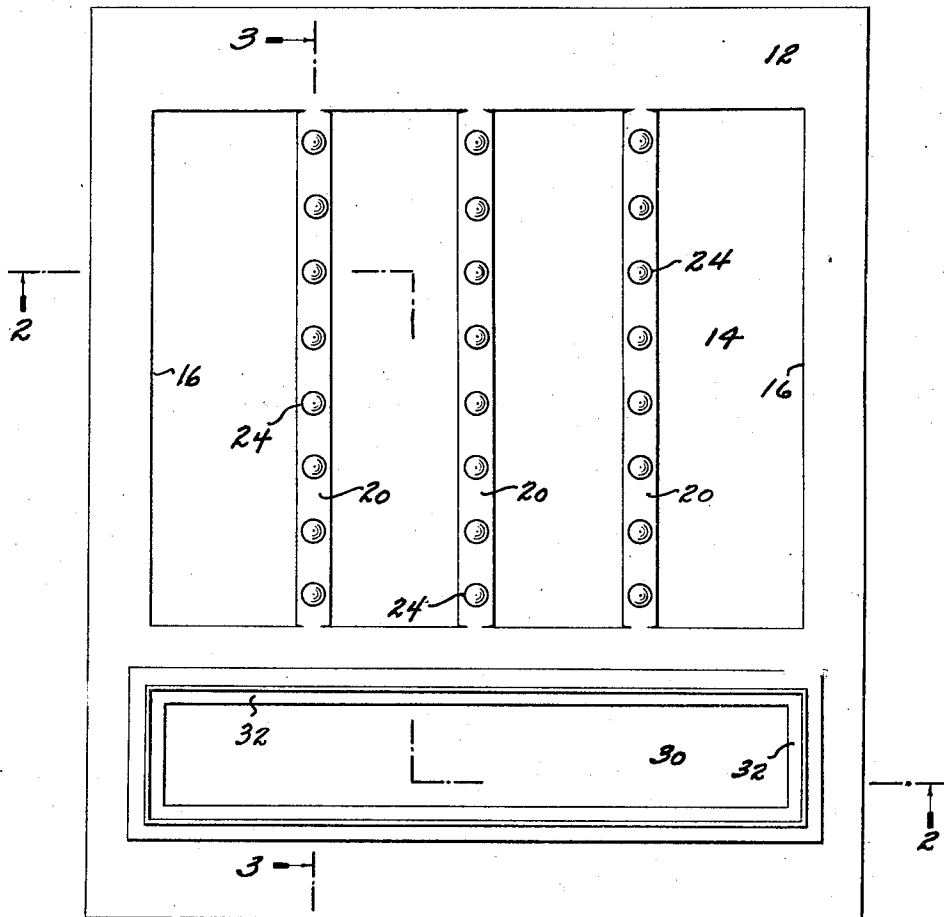


Fig. 1.

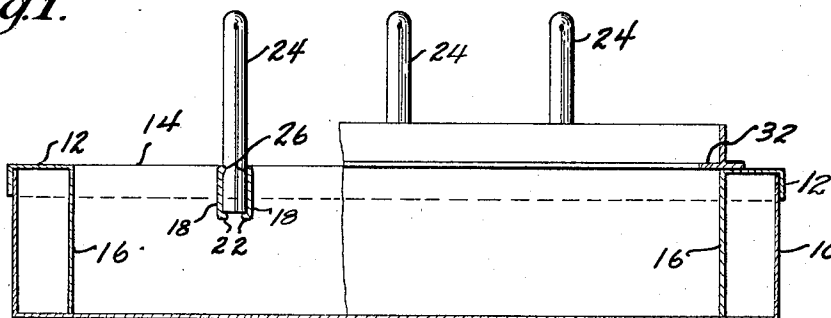


Fig. 2.

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2 Sheets-Sheet 2

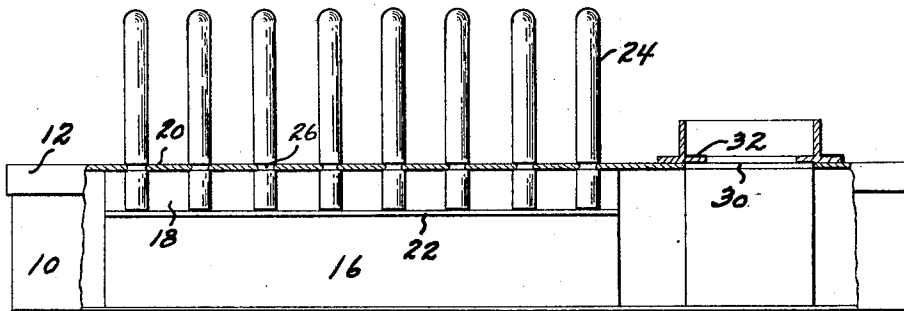


Fig. 3.

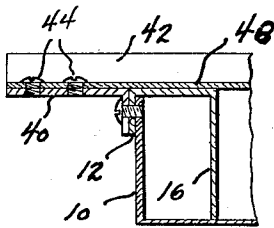


Fig. 4.

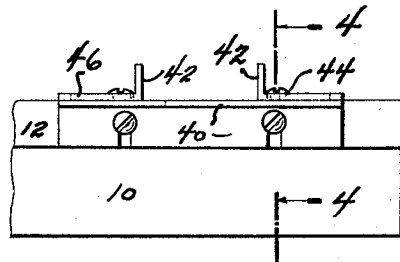


Fig. 5.

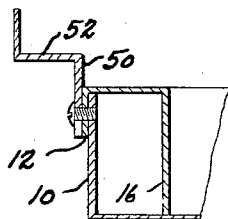


Fig. 6.

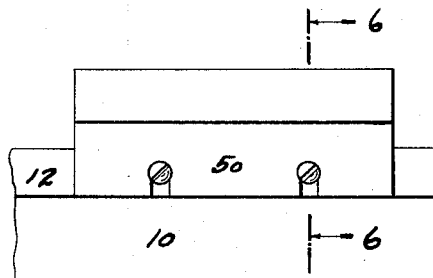


Fig. 7.

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MOP CLEANING DEVICE

Application filed March 9, 1931. Serial No. 521,151.

This invention relates to mop cleaning devices and more particularly to devices generally of the character disclosed in my co-pending application, Ser. No. 249,295, filed January 25, 1928.

5 An object of this invention is a mop cleaning device adapted to be used in conjunction with a vacuum cleaner or other suction producing means, the mop cleaning device having a plurality of prongs to form combs for the mop.

Further objects will readily occur to those skilled in the art upon reference to the following description and the accompanying drawings in which

15 Fig. 1 is a top plan view of the device.

Figs. 2 and 3 are sectional views as if on the lines 2—2 and 3—3 of Fig. 1.

20 Fig. 4 is a section view of a modification as if on the line 4—4 of Fig. 5.

Fig. 5 is a partial side view of the modification of Fig. 4.

Fig. 6 is a section view of another modification, as if on the line 6—6 of Fig. 7.

25 Fig. 7 is a partial side view of the form of Fig. 6.

Referring to the drawings and more particularly to the form of Figs. 1 to 3 inclusive, it will be seen that the mop cleaning device includes a relatively large flat tray 10 provided with a cover 12. The latter has a relatively large aperture 14 whose side edges are bent down, as at 16, to engage the bottom of the tray and thereby assist in rigidifying the cover.

35 Further, the sheet metal which forms the wall from which the aperture is cut, is bent down as at 18, on separated lines, to form a plurality of inverted U shaped channels or supports 20 which run from end to end of the aperture, being integral with the rest of the cover 12. The lower edges of each channel 20 are introverted to form lips 22 and the upper wall of each channel is provided with a plurality of apertures so that prongs 24 may be mounted in the channel, the lower ends of the prongs resting on the lips 22 and their upper portions being the prongs of a comb formed by a row of them.

50 The free ends of the prongs are inserted

thru the apertures into the channel and may be scarfed as at 26 so that the edges of the apertures may interlock with the prongs to hold them in place.

The area of the opening 14 should be smaller than that of the mop, so that the latter will close the opening, thus not interfering with the suction from the vacuum cleaner.

60 Near the large aperture 14 is a long narrow aperture 30 surrounded by a ledge 32 which forms a support for a vacuum cleaner nozzle, the latter being inserted within the ledge so that suction thru the nozzle may draw dirt from the mop which is combed and vibrated over the opening 14, the operation of the device being obvious.

It often occurs that different sized vacuum cleaners are to be used with the mop cleaning device illustrated and accordingly in Figs. 4 to 7 there have been disclosed two alternative supporting means for the vacuum cleaner nozzle. In the form of Figs. 4 and 5, there is removably secured to each side of the device an angle 40 and to both of the angles are secured a pair of ledges 42. The securing means for the latter comprises screw 44 passed thru slots 46 in the horizontal portions 48 of the ledges 42 and into threaded apertures of the angles 40, whereby the ledges 42 may be moved towards or away from each other, as desired, to widen or narrow the effective size of the opening 30.

85 In the form of Figs. 6 and 7 a pair of members 50 are secured to opposite sides of the device near the opening 30 and upon the horizontal portion 52 of these ledges a vacuum cleaner of the type having rollers and brushes may be supported, the roller and brush parts of this type of vacuum cleaner then being raised free of the cover 12.

It will be observed, therefore, that there has been provided an extremely effective, economical and practical mop cleaning device, one which combs the mop as well as permits a vacuum cleaner to suck dirt from the mop, and one which is flat and small, so as to occupy very little space.

Now having described the invention and the preferred embodiment thereof, it is to be 100

understood that the said invention is to be limited, not to the specific details herein set forth, but only by the scope of the claim which follows:

5 What I claim is:

A mop cleaning device comprising a flat tray having a cover provided with a long narrow opening, and a second opening of much greater area than the first, a plurality
10 of inverted U-shaped apertured supports partially covering said larger opening and a plurality of prongs projecting upwardly from said supports to form a mop comb, the prongs having their lower ends disposed in
15 the U's and projecting upwardly therefrom thru the apertures.

In testimony whereof I sign this specification.

WILLIAM A. PAINTER.

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