

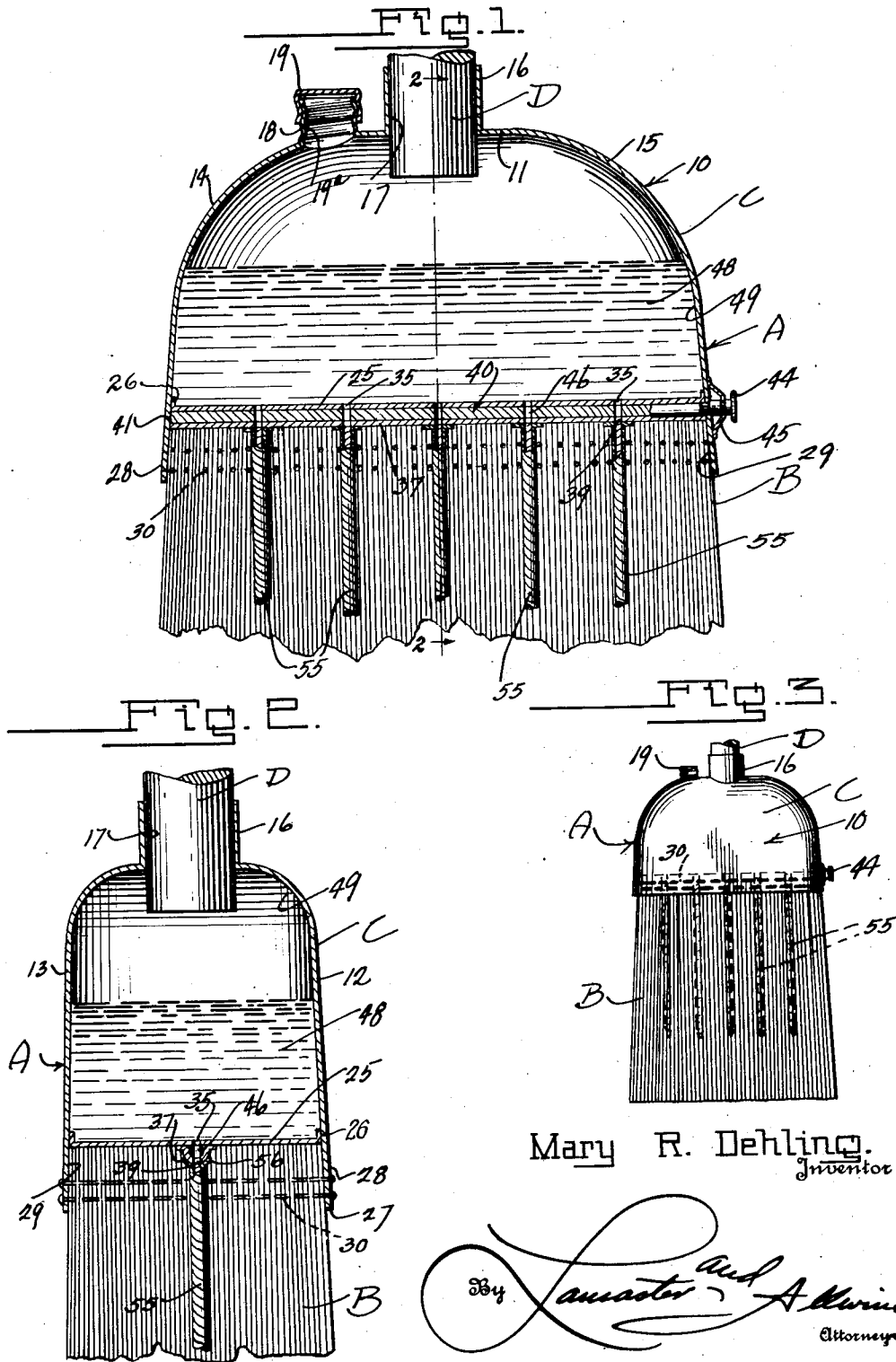
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DUST LAYING BROOM

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DUST-LAYING BROOM.

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This invention relates to improvements in brooms.

The primary object of the invention is the provision of an improved broom, having means to supply water thereto, for the purpose of moistening the broom to prevent the raising of dust during sweeping.

Other objects and advantages of this invention will be apparent during the course of the following detailed description.

In the accompanying drawing, forming a part of this specification, and wherein similar reference characters designate corresponding parts throughout the several views,

Figure 1 is a vertical sectional view taken through the plane of the broom, showing the novel construction of the broom and the means for feeding liquid to the bristles or straws of the broom at a location where the same will be effective for the purpose for which the invention is provided.

Figure 2 is a sectional view taken substantially on the line 2-2 of Figure 1.

Figure 3 is a front elevation of the broom, showing the brush head thereof.

In the drawing, wherein for the purpose of illustration is shown only a preferred embodiment of this invention, the letter A may generally designate the broom, which may consist of a novel broom head B having means C incorporated therein for feed of liquid to the lower part of the bristles or straws of the broom. Handle means D is carried by the means C.

The means C preferably comprises a flat hollow substantially segmental shaped receptacle 10, in the shape of the upper portion of a conventional broom, which includes a top wall 11, and opposite flat parallel wall 12, and 13, the top wall 11 having the convex side walls 14 and 15 sloping down to the sides. Centrally at the top of the wall 11 is an upstanding handle receiving collar 16, which may be of any approved construction. The same may be provided with threads, a pin, or any analogous element to secure the handle D, or the latter may be shrunk into the opening or passageway 17. In the top wall to one side of the handle is provided an annular tubular extension 18 defining a passageway 19, as a filler opening; the annular extension 18 being of standard threaded type for detachably receiving a filler cap of any approved construction.

The total height of the receptacle 10 is substantially less than one-third the total

height of the broom from the top wall 11 to the bottom ends of the bristles, so that the broom makes ample provision for long straws or bristles, the same as the conventional broom.

Within the hood defined by the walls 12, 13, 14 and 15, is disposed a horizontal bottom 25, which is flanged at 26 against the walls defining the hood, and soldered or otherwise secured thereto in a leak-proof connection. The wall 25 is preferably flat, and it is disposed in a plane spaced above the bottom edges 27 of the side and end walls of the receptacle 10, so as to provide a peripheral skirt portion 28 below the bottom wall 25, upwardly into the compartment 29 of which extends the straws or bristles of the brush head proper, and are packed tightly therein and secured together and in place by stitching 30, which may extend thru and between the skirt portions 28 of the side and end walls 12 to 15 inclusive, for the purpose of securely holding the bristles in place. This stitching may be of wire, or conventional yarn material.

The bottom wall 25 is preferably provided with a series of openings 35 extending across the width of the broom, and to the lower surface of the bottom 25 is attached a preferably segmental shaped seat 37, provided with a passageway therethrough into which the openings communicate; the passageway extending across the width of the broom at substantially the longitudinal center of the wall 25. This seat 37 is provided with openings 39 therethrough at the opposite side of the passageway from the openings 35 and respectively aligning with said openings 35.

Rotatably mounted in the passageway of the seat 37 is an elongated valve rod 40, at one end having an abutment against the side wall 14 of the receptacle, and at the opposite end extending thru the opening in the side wall 15 of the receptacle, and at the outer side of the receptacle 10 being provided with a finger engaging head 44. Brackets 45 are attached to the exterior of the receptacle 10, thru which a reduced portion of the valve rod 40 extends in order to permit rotation of the rod portion, but prevent longitudinal movement within its seat passageway. The valve rod 40 is provided with transverse passageways 46 therethrough, for each pair of aligning openings 35 and 39, and merely by rotating the valve rod 40 the operator may regulate the amount of liquid

48 which may flow from the receptacle compartment 49 into the straws or bristles of the brush, and during the period when the broom is not in use the valve rod will close the opening to prevent any flow of liquid to the brush head.

A novel feature of the invention is the provision of flexible tubes 55, secured at their upper ends at 56 to the seat 37 in which the valve is placed, the same having openings therethrough aligning with the openings 39, whereby to receive the liquid as it is permitted to flow into the tubes 55, incident to regulation of the valve 40. These flexible tubes 55 are of course embedded in the bristles or straws of the broom brush head and extend downwardly therethrough, and open at their lower ends adjacent the lower ends of the straws or bristles, so that the water, ammonia or other liquid, may exit directly at the brush end of the broom head, where the same will be desirable, and will not entirely cover the straws of the broom in undesirable locations.

From the foregoing description of this invention it is apparent that a novel broom has been provided, which embodies practical features in the nature of means formed in an efficient relation with conventional straws of a broom, which will permit of the receiving of a liquid into the bristles of the brush head in the proper location, to prevent the raising of dust during sweeping.

Various changes in the shape, size, and arrangement of parts may be made to the form of invention herein shown and described, without departing from the spirit of this invention or the scope of the claims.

I claim:

1. In a broom the combination of a metallic receptacle having a liquid receiving compartment therein, handle means connected with the receptacle, said receptacle including a bottom and a depending peripheral skirt portion below the bottom, flexible broom straws having their upper ends within the skirt portion immediately below the bottom of the receptacle, stitching extending between the wall portions of the skirt portion for stitching the straws to the skirt portion of the receptacle, and means for feeding

liquid from the receptacle into the broom straws, including long flexible tubes extending from the bottom wall of the receptacle down thru the straws in embedded relation therein and having outlets adjacent the lower ends of said broom straws.

2. In a broom the combination of a transversely flat hollow receptacle, a handle secured to the top of the receptacle, means for receiving a liquid in the receptacle, said receptacle including a bottom having openings therethrough, said receptacle furthermore including front, rear and side walls all of which peripherally depend below the bottom to provide a skirt portion having a downwardly facing compartment in the receptacle below the bottom, long broom straws having their upper ends bunched together and disposed in said compartment below the bottom of the receptacle, stitching means securing the broom straws in place to the skirt portion, long flexible tubes embedded in the broom straws and extending longitudinally therethrough and having outlets adjacent the bottom of the broom straws and communicating with the openings in the bottom wall of the receptacle, and means for regulating flow of liquid from the receptacle into said flexible tubes.

3. In a dustlaying broom construction the combination of a metallic receptacle having a perforated bottom wall and a depending peripheral skirt below said bottom providing a downwardly opening socket, a handle secured to the top of the receptacle, a perforated valve member engaging said bottom wall and adapted to be rotated to bring the openings into registration, flexible broom straws secured in the socket of the metallic receptacle, flexible tubes communicating with said valve openings in depending relation through the broom straws and embedded and enclosed therein, said flexible tubes having passageways therein aligning with respective ducts of the valve seat to permit drain of liquid from the compartment of the receptacle onto the sweeping ends of the straws according to the regulation of said valve.

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