Feb. 15, 1955 P. S. VOSBIKIAN ET AL 2,701,888

DETACHABLE BRACKET FOR MOPS WITH CLEANING MATERIAL

Filed June 3, 1949

Fig. 1.

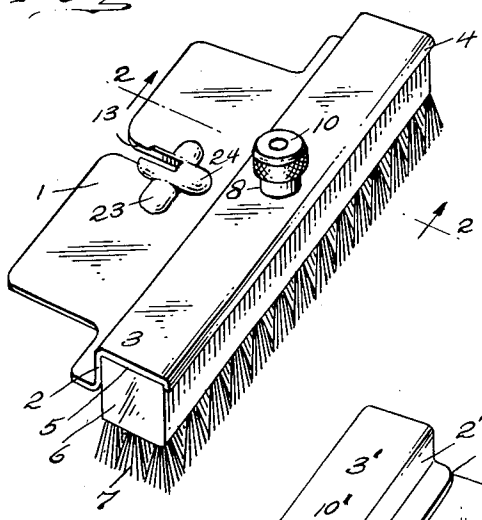


Fig. 2.

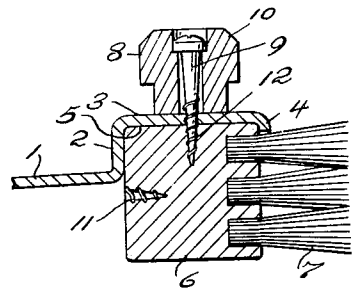


Fig. 3.

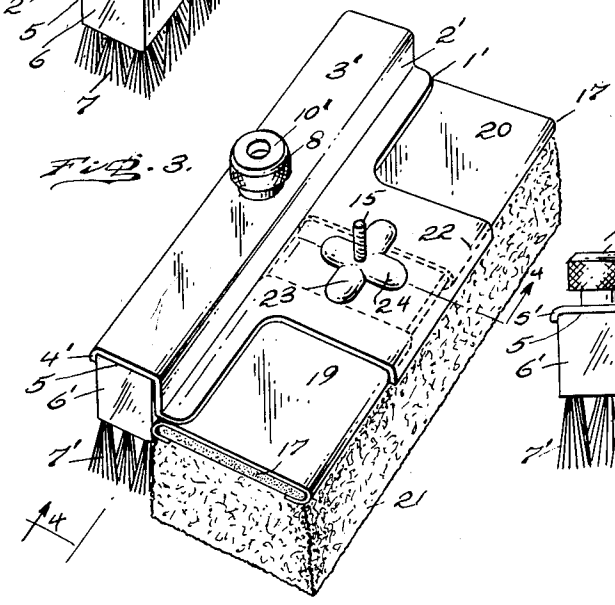


Fig. 4.

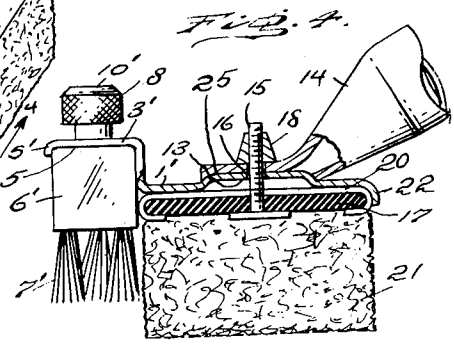
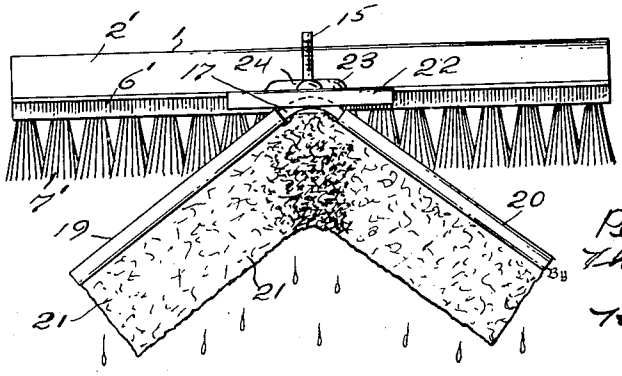


Fig. 5.



Inventors.
Peter S. Vosbikian
Thomas S. Vosbikian
Herbert S. Fairbanks
Attorney.

United States Patent Office 2,701,888 Patented Feb. 15, 1955

2,701,888

DETACHABLE BRACKET FOR MOPS WITH CLEANING MATERIAL

Peter S. Vosbikian and Thomas S. Vosbikian, Melrose, Pa.

Application June 3, 1949, Serial No. 97,032

2 Claims. (Cl. 15—115)

The object of our present invention is to devise a novel detachable bracket for mops of the type which are provided on one face with absorbent sponge material or cleaning material, the bracket being adapted to adjustably receive a cleaning tool such as for example a brush as disclosed.

In the cleaning of surfaces such as floors or walls or their coverings, it is desirable at times to provide for a stronger cleaning action than can be obtained by the use of absorbent material and we have therefore devised a novel brush attachment which can be readily assembled with or detached from the mop without the use of special tools.

A further object of the invention is to devise a novel bracket which can be formed by a stamping operation, thereby materially reducing the cost of fabrication.

A further object of the invention is to devise a novel brush carrying bracket which can be attached to different constructions of backings by the single bolt which secures the handle to the mop.

A further object of the invention is to devise a novel bracket wherein the backing of the brush will contact the adjacent side of the back of the bracket to prevent relative movement in a lateral direction between such parts.

A further object of the invention is to provide the bracket with a slot so that the bracket can be assembled or removed from the mop without removal of the handle.

With the foregoing and other objects in view as will hereinafter clearly appear, our invention comprehends a novel bracket for attachments to mops and adapted to carry cleaning material which can be used simultaneously with the use of the cleaning material of the mop or can be positioned for independent use.

It further comprehends a novel brush carrying bracket alignable with the back of a brush and having means to interlock with a handle.

Other novel features of construction will appear in the detailed description and the appended claims.

For the purpose of illustrating the invention, we have shown in the accompanying drawings preferred embodiments of it which we have found in practice to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized and the invention is not limited to the exact arrangement and organization of these instrumentalities as herein set forth.

Figure 1 is a perspective view of a brush carrying bracket for mops embodying our invention.

Figure 2 is a section on line 2—2 of Figure 1, the brush being shown as rotated 90° counterclockwise.

Figure 3 is a perspective view of another embodiment of the invention, assembled with a mop.

Figure 4 is a section on line 4—4 of Figure 3, showing in addition a handle.

Figure 5 is a front elevation of Figure 3 but showing the back sections of the mop in the act of extraction of liquid from the mop.

Similar numerals of reference indicate corresponding parts.

Referring to the drawings:

The bracket embodying our invention is formed from a sheet of material, preferably metal or plastic, by a stamping or molding operation. The bracket comprises a plate portion 1 which near its forward end is bent upwardly as at 2, then laterally as at 3 and terminates in a downwardly directed lip 4, thereby forming a channel 5. A brush back 6 is shaped to conform to the shape of the channel and carries a plurality of rows of bristles 7. As shown the back 6 is rectangular in cross section to be secured between the lip 4 and the upwardly bent portion 2 by a fastening device 8 consisting of a screw 9 fixed in a knob 10 and adapted to engage the threads 11 or 12 disposed at a right angle to each other.

The plate 1 has an opening 13 which in Figure 1 is in the form of a slot and in Figures 3 to 5, a plate 1 being in the form of an aperture to receive the forward end of a handle 14 above it and a bolt 15, passing through an aperture 16 in the handle. The bolt extends through a back 17 of the mop and is provided with a nut 18. This back may be flexible as shown in Figures 3, 4 and 5 wherein the back is provided with sectional metal covers 19 and 20 which are deflected over marginal opposite portions of the flexible back 17.

Absorbent sponge material 21 is secured by adhesive to the back 17 which is preferably of rubber.

In Figures 3, 4 and 5 the front face of the plate has a downwardly directed lip 22 to overhang the covers 19 and 20 and thereby limit their movement in one direction.

The plate in proximity to its aperture 13 has raised ribs 23 and 24 crossing each other at right angles to cooperate with correspondingly disposed grooves in the handle one of which is shown at 25 in Figure 4.

In Figures 3, 4, and 5, a plate 1 is bent upwardly at 2', then laterally at 3' and terminates in a downwardly directed lip 4', thereby forming a channel. The back 6' carrying the brush 7' is rectangular in cross section and is secured between the lip 4' and the upwardly bent portion 2' by a fastening device having a knob 10'.

It will be apparent from the foregoing that upon loosening the nut 18 the plate of the bracket can be moved into position between the handle and the brush back when the slot is employed as in Figure 1 without removing the handle, and in Figure 3, for example, the handle and nut must be removed before applying the bracket to the mop. A side of the brush backing of the brush contacts a side of the back of the mop to prevent any relative lateral movement.

The sponge material in all of the embodiments shown can be bent downwardly for extraction of liquid but its upward deflection beyond the horizontal is prevented by the plate portions which overhang the back of the mop.

If the brush is to be used with the sponge material of the mop, it is positioned as shown in Figures 1, 3, 4 and 5 so that on an increased downward pressure on the handle both the sponge material and the bristles will contact the surface being cleaned.

When the brush is positioned as in Figure 2, the brush can be used independently of the sponge material.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. The combination with a mop having a block of absorbent material, a flexible back for the block and a bolt extending upwardly through the back near the central portion of the block, of a detachable bracket comprising a plate having a rear portion to extend over the block and having an opening to receive the bolt, the plate being upwardly deflected at its forward portion, merging into a laterally extending portion and terminating in a depending lip to form a longitudinally extending channel, a brush having its back fixed in the channel between the upwardly deflected portion and the lip and with its bristles at a side of and terminating above the cleaning face of the absorbent block and contacting a surface to be cleaned on compression of the absorbent block, and a nut for said bolt for securing the rear portion of the bracket between the absorbent block back and a handle.

2. A detachable bracket for mops, comprising a plate flat at its rear portion and having its forward portion deflected upwardly to form a rear wall, then forwardly to form a top wall and terminating in a depending lip parallel with the rear wall, of less depth than the rear wall and forming with the rear wall and top wall a longitudinal channel rectangular in cross-section, the plate

having an opening in the flat rear portion of the plate to receive means to secure it to a handle, and a brush having a back provided with means to receive a screw and rectangular in cross-section to be selectively received in said channel with its bristles extending downwardly or on 90° counterclockwise rotation of the screw retiving means of the brush forwardly and laterally, and a screw extending through the top wall and engaging the screw receiving means of the brush back to secure the brush in its selected position in its channel.

References Cited in the file of this patent

UNITED STATES PATENTS

71,037	Messinger	Nov. 19, 1867
625,850	Richter	May 30, 1899
763,100	Howell	June 21, 1904
1,395,058	Nevius	Oct. 25, 1921
1,401,134	Butterfield	Dec. 27, 1921
1,525,210	Stein	Feb. 3, 1925
1,541,197	Stein	June 9, 1925
1,663,545	Farish	Mar. 27, 1928
1,761,180	Cave et al.	June 3, 1930
1,862,404	Jayne	June 7, 1932
1,871,146	Bosler	Aug. 9, 1932
2,090,412	Geiger	Aug. 17, 1937
2,116,441	Mason	May 3, 1938
2,133,148	Paul	Oct. 11, 1938
2,226,673	St. Pierre	Dec. 31, 1940

FOREIGN PATENTS

342,512	Great Britain	Feb. 5, 1931