DISPOSABLE PAD FOR A MOP


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3 Claims. (Cl. 15—209)

This application is a continuation-in-part of application Serial No. 418,012, filed March 23, 1954, now Patent No. 2,764,774 and relates to an invention appertaining to a disposable pad for a mop.

An object of the present invention is to provide a disposable pad which involves a new application of a known material for fabricating the pad.

Another object of the present invention is to provide a disposable pad which is simple in structure, highly efficient in action, and commercially feasible.

Other objects and advantages of the present invention will become apparent from the following description taken in conjunction with the accompanying drawing, in which:

Figure 1 is a perspective view of a handle mop assembly having the disposable mop of the present invention forming a part thereof.

Figure 2 is a sectional view, on an enlarged scale, taken on the line 2—2 of Figure 1.

Figure 3 is a perspective view of a handle mop assembly having the disposable mop of the present invention forming a part thereof.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a perspective view showing the manner in which the backing member is adhesively secured to the material forming the mop pad.

The drawings, and more particularly to Figures 1 and 2, the numeral 14 designates generally a handle mop assembly having the disposable mop of the present invention forming a part thereof. The assembly 14 comprises a handle 15 to the lower end of which is secured a sleeve 17 formed with the parallel apertured fastener 18, and through the aperture in the intervening lug 20, the bolts 21 being provided with a wing nut 22 which, when tightened, rigidly secures the handle 15 to the lug 20, is a desired position of angular adjustment relative to the circular head 19.

The circular head 19 is provided with the downwardly and inwardly directed peripheral flange 23 in which is seated the flexible mop pad backing member 24, said backing member 24 having one face abutting the head 19 and being of any suitable flexible material, such as cardboard, or the like, and being similar in shape to the circular head 19, whereby the backing member 24 may be lockingly received within the seat defined by the peripheral flange 23 of the head 19.

Secured to the other face of the backing member 24 in any suitable manner is the mop pad 25, preferably shaped to a sheet form and having two faces, and fabricated of an absorbent material. For example, as shown in Figures 1 through 5, the pad serving as a mop and designated by the numeral 25 in all of these figures, is fabricated of batting which may consist of natural fibers, such as cotton, wool, jute, hemp, linen, either alone or in admixture, synthetic fibers, such as rayon, forisan, nylon, Orlon, Dacron, actilan, dynel, Cynara, Vinyon, Saran, polyethylene, vicara, or glass, casein, soybean fibers, either alone or in admixture or natural fibers admixed with synthetic fibers. It is to be noted that batting is known in the art as loosely carded fibers or the disentangling and collecting together of all fibers of whatever lengths in a mass or layer. One of the faces of the pad has secured thereto the flexible backing member 24, the member serving to prevent the fibers of the batting from shedding and separating from the pad during handling and use. The backing member may be secured to the one face of the pad 25 by the use of any suitable adhesive material, sewing or stitching, or other fastening suitable means.

The mop pad and peripheral flange may be triangular, oblong, or any other desired shape, as long as the pad and flange are of the same shape so that the pad may be seated in the flange.

The mop head 19 is formed with an aperture 26 spaced outwardly a short distance from the upstanding apertured lug 20, and received in said aperture is the shank of a plunger 27. The plunger is formed at its bottom end with an enlarged circular head 28 and is formed at its top end with a similar enlarged circular head 29. A coiled spring 30 surrounds the shank of the plunger, bearing between the top head 29 and the surface of the mop head 19, biasing the plunger 27 to the position thereof shown in Figure 2, namely, to a position wherein the bottom head 28 of the plunger engages the bottom surface of the mop head 19.

When it is desired to remove the mop from the mop head 19, for any reason, for example, for replacing the mop, the operator merely depresses the plunger 27, as by exerting downward pressure on the top head 29 of said plunger, causing the mop backing member 24 to be flexed downwardly, and causing the backing member to be forced out of the seat defined by the peripheral flange 23 of the mop head. The backing member of the new mop head is then forced into said seat by flexing the backing member so that it will fit into the seat and then by pushing the backing member into the seat manually.

Referring to Figures 3 to 5, it will be seen that the backing member 24 is formed with a pair of parallel slots 31, of substantial length, located symmetrically on opposite sides of the center of the backing member. Thus, when it is desired to use the mop as a hand implement, the strip of material between the slots 31, as shown at 32, is elevated to the position shown in Figures 3 and 4, whereby the user may slip his hand between the strip 32 and the remainder of the backing member 24, allowing the mop to be used manually.

In assembling the mop pad, the mass of absorbent material 25 is secured to the backing member 24 at all points except between the slots 31, 31, leaving the strip of material 32 free to be flexed upwardly in the manner shown in Figures 3 and 4. As shown in Figure 5, the adhesive is applied to all surfaces of the backing member 24 and the mop body 25 except in the region of the strip 23.

Having thus described the invention what is new and desired to be secured by Letters Patent is:

1. A disposable dry cleaning mop comprising a sheet-like layer fabricated wholly or partly of dry non-regenerated loosely carded fibres and having two faces, one of which is entirely exposed for direct contact with surfaces to be cleaned, and a backing member of relatively stiff, thin sheet material secured to the other face at least at several points over the area of said other face for arresting the separation of said loosely carded fibres of the layer...
during use, said backing member and layer of loosely carded fibres being expendable as a unit when said fibres have become unsatisfactorily dirty.

2. A disposable dry cleaning mop in accordance with claim 1, and characterized by said sheet-like layer being cotton batting.

3. A disposable dry cleaning mop in accordance with claim 1, and characterized by said backing member comprising a cardboard panel.

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