

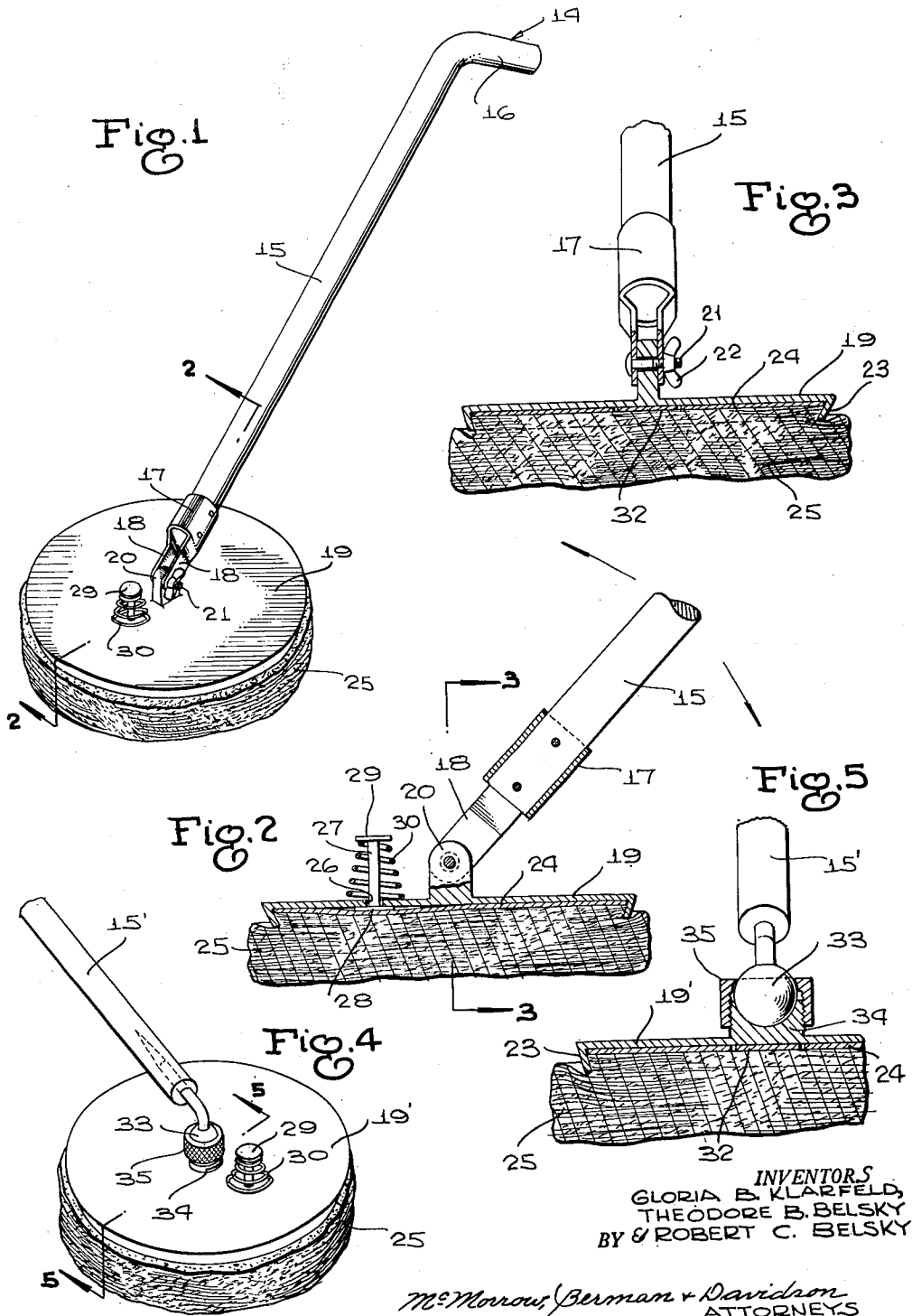
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MOP HAVING A DISPOSABLE MOP PAD

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MOP HAVING A DISPOSABLE MOP PAD

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3 Claims. (Cl. 15—228)

This invention relates to mops, and more particularly to an improved mop having a disposable mop pad.

The main object of the invention is to provide an improved mop which is simple in construction, which is provided with means for easily and rapidly replacing the mop pad thereof whenever desired, and which is arranged to provide an efficient floor cleaning action.

A further object of the invention is to provide an improved mop having a readily removable mop pad, whereby the pad may be replaced whenever desired, the improved mop being inexpensive to manufacture, being rugged in construction, and being arranged so that its pad may be removed at times and may be employed as a hand mop.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a perspective view of one form of the improved mop constructed in accordance with the present invention.

Figure 2 is an enlarged partial vertical cross sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a vertical cross sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a fragmentary perspective view showing a modified preferred form of mop according to the present invention.

Figure 5 is an enlarged cross sectional detail view taken on the line 5—5 of Figure 4.

Referring to the drawings, and more particularly to Figures 1, 2 and 3, 14 designates one form of improved mop constructed in accordance with the present invention.

The mop 14 comprises a handle 15 having the angled top hand grip portion 16. Secured to the lower end of the handle 15 is the sleeve 17 formed with the parallel apertured fastening lugs 18, 18. Designated at 19 is a circular mop head formed centrally with the upstanding apertured lug 20 which is received between the attaching lugs 18, 18 and which is secured thereto by a transverse bolt 21 passing through the apertures in the lugs 18, 18 and through the aperture in the intervening lug 20, the bolt 21 being provided with a wing nut 22 which, when tightened, rigidly secures the handle 15 to the lug 20 in 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 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 backing member 24 in any suitable manner is the mop pad 25, said pad being of any suitable absorbent mop material. For example, as shown in Figures 1 through 5, the mop, designated at 25 in all of

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these figures, may be comprised of batting made of cotton or other suitable fibers, the top portion of the mass being secured to the mop packing 24 by the use of any suitable adhesive material, or by any other suitable fastening means.

Obviously, the mop may comprise any suitable absorbent material well known to those skilled in the art, such as sponge rubber, felt, cotton, or other well known mop material.

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.

As shown in Figure 1, the hand grip portion 16 on handle 15 is directed away from the plunger 27.

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 now to Figures 4 and 5, a ball and socket joint may be employed to connect the mop handle, shown at 15', to the mop head, shown at 19'. Thus, a ball element 33 may be secured in any suitable manner to the end of the handle 15', said ball element being received in a spherical socket element 34 provided centrally on the mop head 19', said socket element being provided with the ball clamping nut 35 which is threadedly engaged on the socket element 34, and which, when tightened, serves to lock the ball 33 in an adjusted position in the socket 34. Obviously, if so desired, the ball 33 may be left free to rotate in the socket 34 by slightly loosening the clamping ring 35, whereby the user may adjust the handle 15' to any desired angular position relative to the mop head 19'.

What is claimed is:

1. A mop comprising a handle, a substantially circular head swivelly secured to said handle, an inwardly and downwardly inclined peripheral flange on said head, a substantially circular flexible mop pad backing member seated within said flange and substantially engaging the bottom surface of said head, a mop pad secured to said backing member, said head being provided with an aperture, a plunger element mounted on said head and being at times movable downwardly through said aperture to engage said backing member and push said backing member out of the flange, and spring means biasing said plunger element upwardly.

2. A mop comprising a handle, a substantially circular head swivelly secured to said handle, an inwardly and downwardly inclined peripheral flange on said head, a substantially circular flexible mop pad backing member seated within said flange and substantially engaging the bottom surface of said head, a mop pad secured to said backing

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member, said head being provided with an aperture, a plunger element mounted on said head and extending slidably through said aperture, said plunger element being at times movable downwardly through the head aperture to engage said backing member and push said backing member out of the flange, and spring means biasing said plunger element upwardly.

3. A mop comprising a handle, a head swivelly secured to said handle, an inwardly and downwardly inclined peripheral flange on said head, a flexible mop pad backing member seated within said flange and substantially engaging the bottom surface of said head, a mop pad secured to said backing member, said head being provided with an aperture, and a plunger element mounted on said head and being at times movable downwardly through said aperture to engage said backing member and push said backing member out of the flange.

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