Nov. 25, 1947. E. JUMONVILLE 2,431,564

MOP HOLDER

Filed May 20, 1946

FIG. 5.

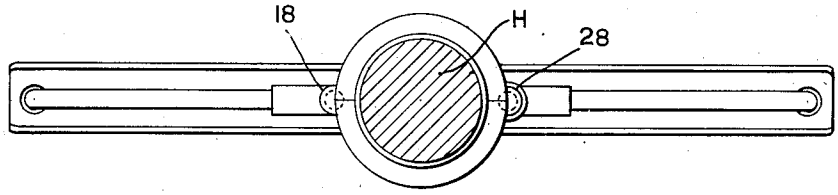
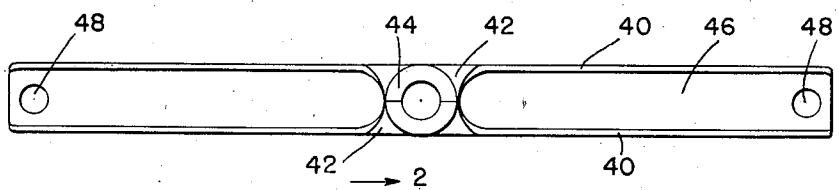


FIG. 6.



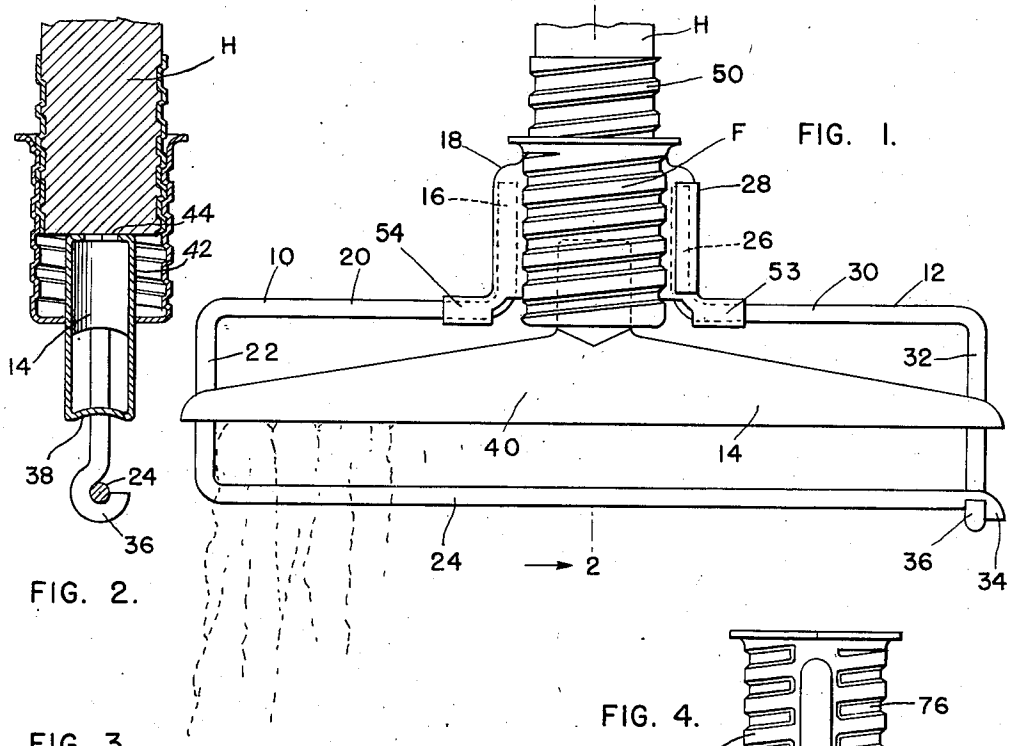


FIG. 1.

FIG. 2.

FIG. 3.

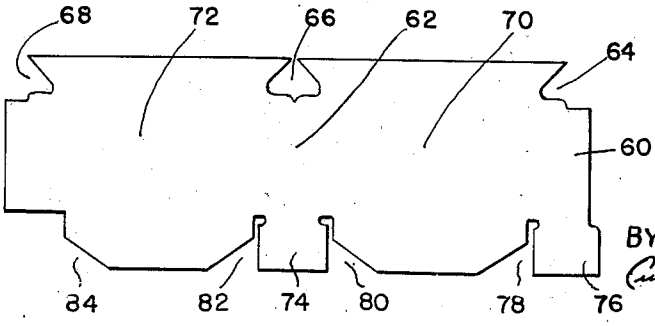
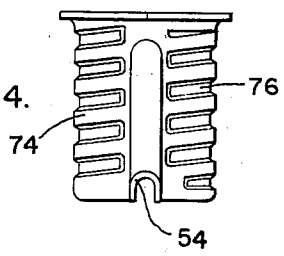


FIG. 4.



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Patented Nov. 25, 1947

2,431,564

UNITED STATES PATENT OFFICE

2,431,564

MOP HOLDER

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Application May 20, 1946, Serial No. 670,948

3 Claims. (Cl. 15—153)

1

The present invention relates to a mop of the type wherein the mop strands or strips of cloth are detachably held between suitable gripping members in the mop head.

The principal object of the invention is to provide such a mop characterized by the simplicity and cheapness of its construction, as well as by the convenience with which it may be manipulated to insert and remove the mop strands, and with which it may be broken down and stored away.

In the drawings:

Figure 1 is a side elevational view of the assembled mop head of my invention.

Figure 2 is a vertical sectional view of the assembly taken along the line 2—2 of Figure 1.

Figure 3 is a plan view of one form of metal blank from which the threaded ferrule of the mop head may be made, said blank being illustrated on a reduced scale as compared with other views of the drawings.

Figure 4 is a side elevational view of the ferrule after same has been formed from the blank of Figure 3.

Figure 5 is a top plan view of the mop head assembly with the mop handle in section, and

Figure 6 is a top plan view of the follower member of the mop head, after same has been formed from a blank of metal.

Referring to Figure 1, the mop head assembly comprises a threaded ferrule F having means for the attachment of angular heavy metal or wire rods 10 and 12, which form a substantially rectangular frame through which the strands of the mop are passed, same being held in the frame by the clamp or follower member 14, which is forced downwardly to grip the mop strands by threading the lower end of the mop handle H into the ferrule F.

One end of the rod 10 has an upstanding portion 16 which fits in an eye 18 formed integral with the ferrule F. By suitable bends in the rod as shown, it forms one half of the top bar of the mop head rectangle as at 20, one side bar thereof as at 22, and also forms the bottom bar of said rectangle with its portion 24. The other rod 12 of the frame has a similar upstanding portion 26 which fits in an opposite eye 28 formed integrally with the ferrule, a top bar 30 and a side bar 32. The free ends of the rods 10 and 12 are bent as shown in Figure 1, the rod 10 having a downwardly turned hook 34 and the rod 12 having an upwardly turned engaging hook 36. The rod members are made of metal sufficiently resilient to permit the hook 34 to be sprung over

2

the hook 36 to maintain the rods in rigid relation with respect to one another and to form the rectangle previously mentioned.

The follower 14 may be formed in any suitable manner, being stamped, cut and bent from a single sheet or blank of metal. The follower has a concave bottom 38 and triangular shaped side plates 40, each of the side plates having hub extensions 42 which are bent towards one another so that their edges engage, to form a flat central top 44. The bottom plate 46 of the follower is provided with openings 48 adjacent each of its ends, these openings being adapted to permit the follower to be slipped around the vertical portions 22 and 32 of the rods 10 and 12 respectively. The hub portion 42 of the follower extends up into the interior of the ferrule as shown in Figure 1, so that when the handle H (which has threads 50 on the lower end thereof) is screwed into the ferrule, the lower end of the handle engages the follower as illustrated in Figure 2, and forces same downwardly until its lower concave face 38 grips the mop strands against the horizontal bar portion 24 of the rod 10. Obviously, the downward pressure of the handle on the follower will not only securely grip the rod strands, but will tend to maintain the hook 34 in locking engagement with the hook 36.

When it is desired to remove the mop strands, the handle H may be unscrewed from the ferrule, at which time the follower 40 will be loosened and can be easily withdrawn from gripping engagement with the rod. At the same time, the hook 34 can be disengaged from the hook 36, with the hand or foot, in order to facilitate the removal of the mop strands or cloths.

As best shown in Figures 1 and 4, the ferrule F has centrally positioned outwardly extending arch-shaped tabs 53 and 54, and after the upwardly extending ends 16 and 26 of the rods are inserted into the sleeves 18 and 28, the lower edges of the tabs 53 and 54 are bent inwardly around the rods to securely retain the same in their respective sleeves.

In Figure 3, one manner of forming the blank from which the ferrule is made is shown. This blank has an end area 60 from which the sleeve 28 is formed and a central area 62 from which the sleeve 18 is formed. Suitably formed cutouts 64 and 66 are made above these areas, and at 68 in the opposite top edge of the blank, in order that the blank may be formed into a cylinder with a tapered or flared upper opening as shown in Figure 1.

On opposite sides of the area 62 there are rela-

tively wide areas 70 and 72, these areas being suitably stamped to form the screw threads 74 and 76 as shown in Figure 4, which are arranged in alternate relation with the sleeves 18 and 28. In order to provide for the engaging elements 53 and 54 of the ferrules, tabs 74 and 76 are formed in the blank by means of the cut-outs 78, 80 and 82 therein, as well as a corresponding cut away portion 84 on the lower left hand edge of the blank as viewed in Figure 3.

A blank cut in the form as shown in Figure 3 can be suitably formed to provide the ferrules illustrated in Figure 4, and the engaging vertical edges of the ferrule may be soldered, welded, or otherwise secured together with any well known type of joint depending on the shape and size of the blank, such as by a lap joint. When thus formed, the follower 14 and the frame members 10 and 12 of the mop head may be assembled to the ferrule as previously described after which time the mop handle may be inserted to cause the ferrule to grip the mop strands.

It will be obvious that I have provided a construction of pronounced simplicity and characterized by the cheapness with which it may be manufactured. The mop assembly disclosed herein can be easily taken apart and stored in a minimum of space. It may be shipped in broken down condition and assembled for sale, or may be sold in broken down condition with simple instructions to the user for assembly.

I claim:

1. A mop holder comprising a pair of rods forming a substantially rectangular frame comprising top and bottom horizontal bars and vertical side bars, said rods having hook portions which detachably engage one another at one of the lower corners of the frame, the top bar portions of said rods terminating in spaced upstanding connecting portions located adjacent the upper central side of said frame, a substantially cylindrical handle receiving member of metal and having integral and opposite sleeves to detachably receive said upstanding portions of said rods, said member having opposite flights of screw threads therein arranged alternately with said sleeves, and a follower to grip the mop strands comprising an integral sheet of metal forming a bottom gripping plate, spaced side walls and a hub extending into said handle receiving member, said hub being of appropriate length to be engaged by the lower end of the handle when threaded into said receiving member to firmly grip the mop strands between said gripping plate and the horizontal bar of said frame, said gripping plate having openings adjacent opposite ends thereof which slide along said vertical side bars to guide said follower.

2. A mop holder comprising a pair of rods forming a substantially rectangular frame comprising top and bottom horizontal bars and vertical side bars, said rods having hook portions

which detachably engage one another at one of the lower corners of the frame, the top bar portions of said rods terminating in spaced upstanding connecting portions located adjacent the upper central side of said frame, a substantially cylindrical handle receiving member of metal and having integral and opposite sleeves to detachably receive said upstanding portions of said rods, said member having opposite flights of screw threads therein arranged alternately with said sleeves, a follower to grip the mop strands comprising an integral sheet of metal forming a bottom gripping plate, spaced side walls and a hub extending into said handle receiving member, said hub being of appropriate length to be engaged by the lower end of the handle when threaded into said receiving member to firmly grip the mop strands between said gripping plate and the horizontal bar of said frame, said gripping plate having openings adjacent opposite ends thereof which slide along said vertical side bars to guide said follower, and a handle having a threaded end to enter the threads of said receiving member and having a flat lower end to abut said hub but being at all times detached from said hub.

3. A mop holder comprising a pair of rods forming a substantially rectangular frame comprising top and bottom horizontal bars and vertical side bars, said rods having hook portions which detachably engage one another at one of the lower corners of the frame, to top bar portions of said rods terminating in spaced upstanding connecting portions located adjacent the upper central side of said frame, a substantially cylindrical handle receiving member of metal and having integral and opposite sleeves to detachably receive said upstanding portions of said rods, said member having opposite flights of screw threads therein arranged alternately with said sleeves, a follower to grip the mop strands comprising an integral sheet of metal forming a bottom gripping plate, spaced side walls and a hub extending into said handle receiving member, said hub being of appropriate length to be engaged by the lower end of the handle when threaded into said receiving member to firmly grip the mop strands between said gripping plate and the horizontal bar of said frame, said gripping plate having openings adjacent opposite ends thereof which slide along said vertical side bars to guide said follower, a handle having a threaded end to enter the threads of said receiving member and having a flat lower end to abut said hub but being at all times detached from said hub, and tabs integral with said receiving member extending outwardly therefrom and engaging the top and bottom horizontal bars of said frame to rigidly secure the upstanding portions of said rods in said sleeves.

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