March 15, 1932. S. LABANT 1,849,147

MOP HOLDER AND HANDLE

Filed Sept. 8, 1930

Fig. 1.

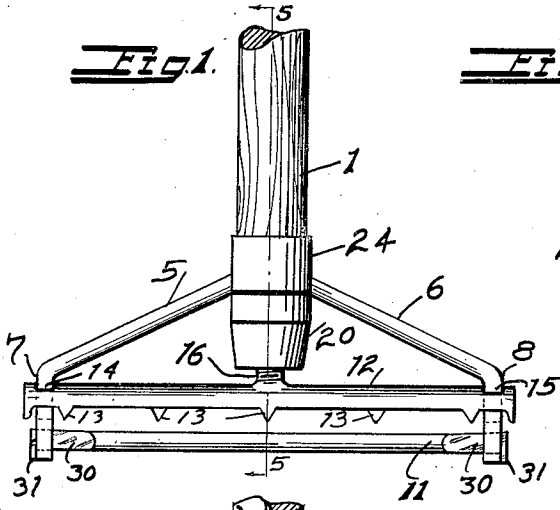


Fig. 2.

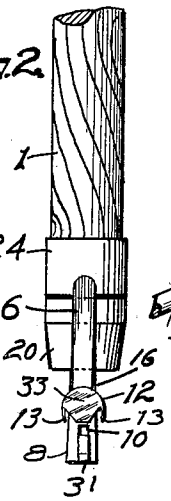


Fig. 3.

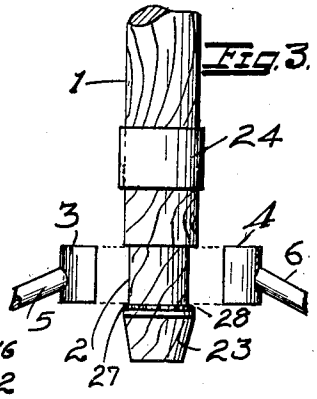


Fig. 4.

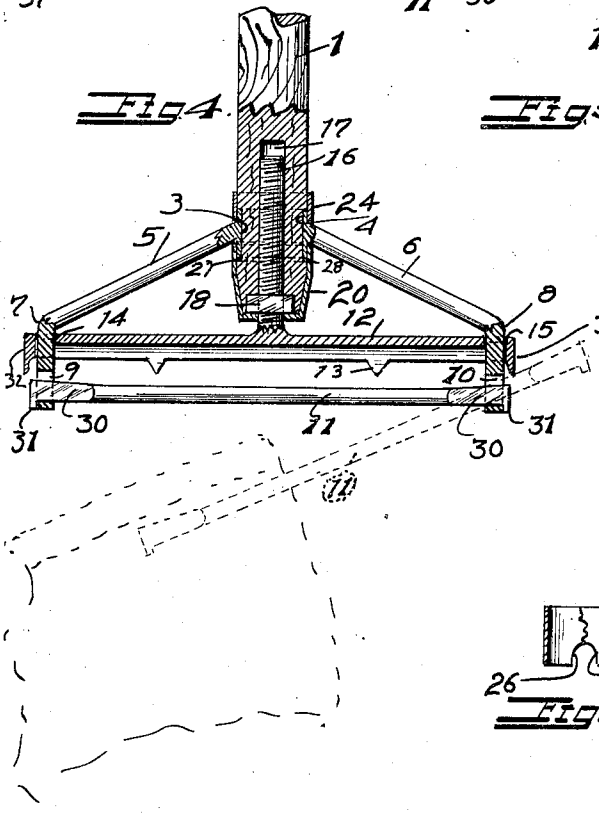


Fig. 5.

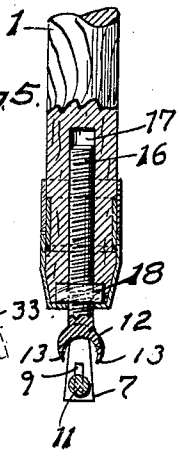


Fig. 6.

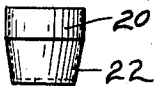


Fig. 7.

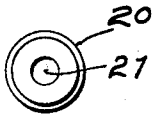


Fig. 8.

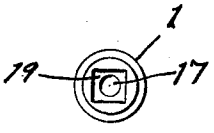


Fig. 9.

Fig. 10.



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UNITED STATES PATENT OFFICE

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MOP HOLDER AND HANDLE

Application filed September 8, 1930. Serial No. 480,310.

This invention relates to improvements in mop holder and handle, and more particularly to household mops and holders in which practical use has brought out various faults in construction and operation, and the object of the present invention is to provide a mop holder of simple construction which will be strong, and one which can be manufactured at a low cost.

Another object is to provide a mop holder and handle having a removable holding bar, and a clamp bar for the mop, in which the clamp bar is operated by the handle, and the holding bar is detached at one end by means of the foot, whereby the soiled mop fabric can be removed without touching the hands to it.

Another object is the provision of means of operating the mop clamp by turning the handle one way to tighten the clamp on the mop fabric, and the other way to release the mop.

Other objects will appear to those skilled in the art to which it appertains as the description progresses.

An embodiment of the invention is shown in the accompanying drawings in which the same reference numeral is applied to the same portion throughout the several views, and of which there may be modifications.

Figure 1 is a front view of the mop holder showing a portion of the handle broken off.

Figure 2 is a side elevation of the view shown in Figure 1.

Figure 3 is a detail view showing a portion of the handle having the upper outside sleeve thereon, and showing the annular groove, and the half sleeves spaced therefrom with a portion of the side arms as attached to the sleeves.

Figure 4 is a sectional view of the mop holder with parts broken away.

Figure 5 is a sectional view taken on line 5—5 of Figure 1.

Figure 6 is an elevation of the lower sleeve or ferrule.

Figure 7 is an end view of the sleeve or ferrule.

Figure 8 is an end view of the handle showing the hole for the clamp bolt, and the recess for the threaded nut.

Figure 9 is a view partly in section showing the upper outside sleeve.

Figure 10 is a view showing the two half rings which form a complete ring bearing for the lower edge of the annular groove.

The numeral 1 indicates the handle for the mop holder. 2 shows an annular groove in the handle in which the two half sleeves 3 and 4 fit rotatably. Fixed to the half sleeves are the side arms 5 and 6 which extend at an angle to the parallel portions 7 and 8 which have the openings 9 and 10 to receive the mop holding bar 11.

The clamp bar 12 is hollow and half round, and on the two edges are the prongs 13 adapted to be brought down on each side of the bar 10. There are openings 14 and 15 in the bar through which the portions 7 and 8 extend to guide the clamp bar as it is moved up or down.

On the clamp is fixed the threaded bolt 16 which extends into the hole 17 in the handle, and engages with the threaded nut 18 in the end of the handle and may be held from turning in any suitable way, in this instance the nut is set into a recess which is square as shown at 19, so that the turning of the handle moves the bolt on the clamp up or down in the nut.

Fitting over the end of the handle is the lower sleeve or ferrule 20 having a hole 21 for the bolt 16 to slide through. This sleeve is preferably tapered as shown at 22 to fit the tapered end of the handle 23 and is adapted to extend up to the side arms. The upper sleeve 24 has open slots 25 and 26 to fit over the side arms so as to allow the edges of the lower and upper sleeves to meet. These sleeves are held together in any suitable way but preferably by being spot welded at the joint.

In the groove 2 is fixed the two half rings 27 and 28 by forcing into the wood the points 29. This forms a complete wearing ring for the half sleeves 3 and 4.

The holding bar has the flat portions 30 on the ends to fit into the holes 9 and 10, and each end has the lip 31 to prevent movement transversely of the holder when the bar is

down, but when the bar is raised it may be pushed through the openings at either end, so that it will drop down as shown in dotted lines in Figure 4, which shows the mop fabric about to slide off the bar.

The clearance above the bar in the holes 9 and 10 is to allow for this action. The holding bar may be removed entirely, but is generally dropped down at one end as shown.

The clamp bar has the closed ends 32 and 33 which when brought down fit over the ends of the holding bar to lock it securely in place.

In operation, the clamp is raised by turning the handle one way, and the holding bar dropped down at one end, so that the mop fabric can be slipped over, the end of the bar is raised and placed through the opening in the side arm, whereupon the handle is turned in the opposite direction to bring the clamp down on the mop fabric, so that the prongs penetrate therein, and the bar clamped tightly thereon, and the mop is now ready for use.

When it is desired to change mop fabrics, the operator may place a foot on the mop fabric close to the holder, and turn the handle to raise the clamp bar, and then the holding bar may be raised over the lip on one side by the toe of the operator's shoe and moved sidewise to let one end of the bar drop down, whereupon the holder is raised and the mop fabric slips off.

It will be noted that this method of removing the soiled fabric is done without it coming in contact with the hands, although of course it can be done by the hands.

And thus it will be seen that a very simple, convenient, and strong means has been provided for holding a mop fabric, and for readily changing the fabric when soiled.

Having thus described my invention what I desire to secure by Letters Patent of the United States is as follows, but modifications may be had in carrying out the invention as shown in the drawings and in the particularly described form thereof within the purview of the annexed claims.

I claim:

1. A mop holder and handle of the class described comprising a handle, an annular groove in said handle adjacent the end thereof, a pair of half sleeves in said groove, side arms on said half sleeves, a lower sleeve adapted to fit over the lower end of said handle, and over the lower portion of said half sleeves, an upper sleeve adapted to fit over the upper portion of said half sleeves, and over said side arms, means to fasten the lower and upper sleeves together, a threaded nut in the end of said handle, a threaded bolt engaging said nut, and extending into said handle, a clamp on said bolt, and a fabric holding bar mounted on said side arms.

2. A mop holder of the class described comprising a handle, laterally extending arms fixed to said handle, said arms having opposite end portions parallel with the handle, a fabric holding bar having end openings adapted to slide on said end portions, a threaded bolt fixed to said bar and extending into the end of said handle, a threaded nut engaging said threaded bolt, and fixed in the end of said handle, slots in the lower ends of said parallel portions, a bar having flat ends adapted to fit into said slots, projecting lips on said flat portions to prevent transverse movement of the bar, when the ends are in the slots, and in the bottom thereof, whereby the turning of the handle tightens or loosens the fabric holding bar on the fabric.

3. A mop holder and handle of the class described comprising a handle, an annular groove in said handle adjacent the end thereof, a pair of half sleeves forming a complete sleeve in said groove, a wearing ring in said groove under the lower ends of said sleeves, a side arm attached to each of said half sleeves, and means to hold a mop fabric attached to said arms.

STEPHEN LABANT.