Oct. 26, 1954 L. H. FRIAR 2,692,403

MEANS FOR REMOVABLY SECURING MOPHEADS TO HANDLES

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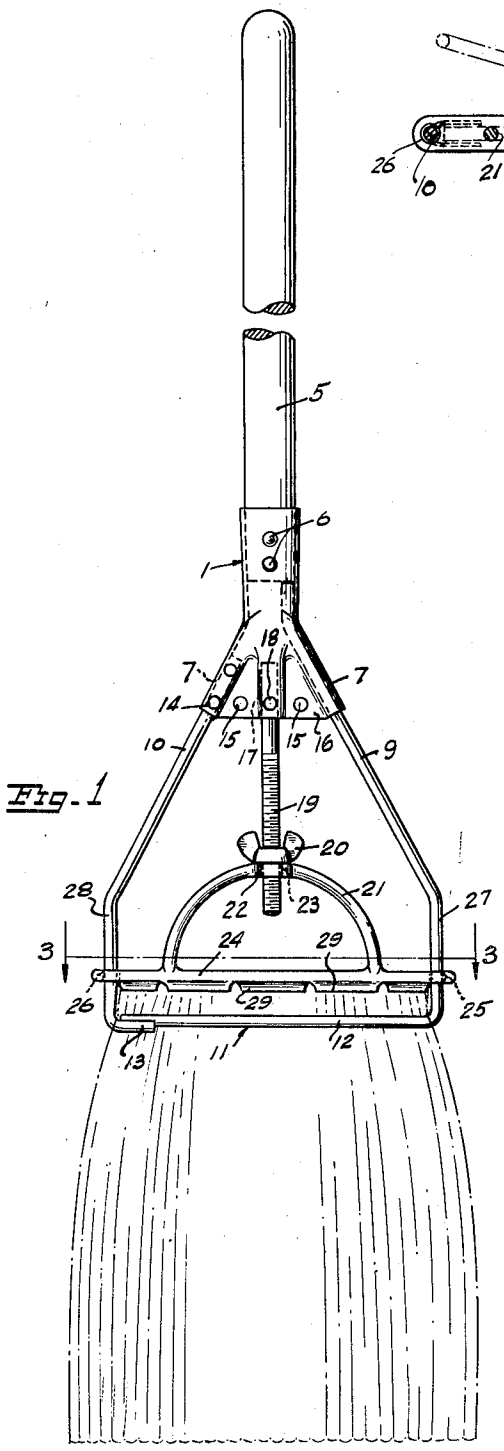


Fig. 1

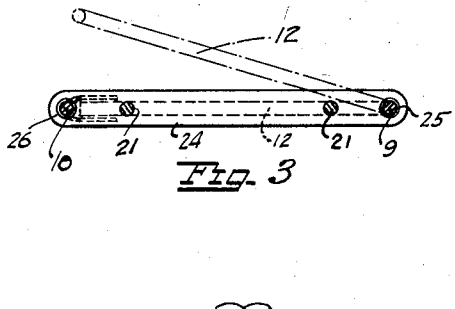


Fig. 3

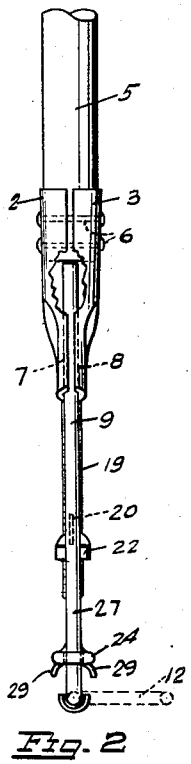


Fig. 2

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MEANS FOR REMOVABLY SECURING MOPHEADS TO HANDLES

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1 Claim. (Cl. 15—153)

1

This invention relates to improvements in mop sticks and more particularly to means in the form of a head secured to one end of the mop stick by means of which a mop may be quickly and conveniently secured to or removed from the mop head.

A further object of the invention is the provision of a mop head which is of simple, efficient, durable, lightweight construction and wherein its several parts are automatically reinforced throughout their entire operative range against distortion and displacement of the mop secured to the head.

These and other objects will appear as my invention is more fully hereinafter described in the following specification, illustrated in the accompanying drawing and finally pointed out in the appended claim.

In the drawing:

Figure 1 is the front elevation of a mop head made in accordance with my invention.

Figure 2 is a side elevation of Figure 1.

Figure 3 is a sectional top plan view taken approximately along the line 3—3 of Figure 1.

Referring now more particularly to the drawing:

The invention comprises a bracket generally indicated at 1, made in two sections indicated at 2 and 3, and secured together and to a mop stick or handle 5 by means of rivets 6. The lower end of each section of the bracket is flared outwardly as shown and channeled as at 7 and 8, to receive and hold the upper terminal ends of leg numbers 9 and 10 of a frame member generally indicated at 11 and which comprises a cross member 12 formed as a horizontal continuation of the leg 9 and whose one end is adapted for removable engagement with an inwardly turned and channeled end portion 13 of the leg 10. The upper end of the leg 10 is permanently secured by rivets, spot-welding, or any other suitable means as indicated at 14, to the bracket 1, while the elongated upper end of the leg 9 is rotatable within the cooperating channel portions of the flared end of the bracket through which it extends. This upper end of the leg 9 further extends vertically within the bracket 1 and terminates just below the bottom end of the handle 5 secured within the bracket. By this arrangement the upper end of the leg portion 9 of the frame may be rotated within the bracket 1 to move the cross member 12 into and out of engagement with the horizontal and channeled end portion 13 of the leg 10.

The two sections of the bracket 1 are held together not only by the rivets 6 extending through

2

the handle 5 but also by rivets, spot-welding, or other suitable means as at 15 extending through the web portions 16 of the bracket sections.

Also formed within each section of the brackets, centrally of the webbed portions thereof, are two cooperating channels 17 within which is securely mounted by means of a rivet, spot-welding, or the like, as indicated at 18, a depending threaded shaft 19 provided with a thumb nut 20.

Slidably mounted on the shaft 19 for vertical movement with respect thereto is a clamping element comprising a frame 21 of arcuate shape and formed with a central enlargement 22 which is formed with a central opening 23 so that the frame may move upwardly and downwardly along the shaft 19 according to the position of the thumb nut 20.

The bottom ends of the frame 21 are secured to or formed integral with a cross-head 24 whose outer ends are apertured as at 25 and 26 to slidably embrace parallel portions 27 and 28 of the leg numbers 9 and 10, respectively. The lower surface of the cross-head 24 is formed with outward and downward extensions 29 to form an inverted channel for engaging the top end of a mop draped over the cross member 12 and for securing the mop to the cross member 12 by advancement of the thumb nut 20 on the threads of the shaft 19. The clamping action between the clamping element or cross-head 24 not only secures the upper end of the mop to the cross-arm 12 but also secures the free end of the cross-arm 12 in permanent engagement within the inwardly turned and channeled end portion 13 of the leg 10. At the same time the legs 9 and 10 of the frame are prevented from spreading, due to lateral thrusts of the mop head, by their extension through the openings formed in the ends of the cross-head 24.

By this arrangement, and as best illustrated in Figures 2 and 3, the cross member 12 of the frame may be swung about the pivot established by leg 9 to either side so that a used or soiled mop may be conveniently detached from the cross member 12 and also a new or freshly laundered mop may be slid into place over the cross member 12 into proper position within the frame and subsequently secured thereto by means of the clamping element as aforesaid.

While I have shown a particular form of embodiment of my invention, I am aware that many minor changes therein will readily suggest themselves to others skilled in the art without departing from the spirit and scope of the invention.

Having thus described the invention, what I

claim as new and desire to protect by Letters Patent is:

A mop holder adapted for attachment to one end of a mop stick, a head comprising in combination a bracket, means formed at one end of the bracket for permanent attachment to the mop stick, said bracket having a pair of diverging tubular openings formed therein at its opposite end, a frame comprising two diverging leg members, one of said legs being permanently and fixedly secured at one of its ends within one of said openings in the bracket and turned at right angles to itself at its opposite end, said turned portion of the leg having a channel extending throughout its length, the other of said leg members being rotatably attached at one of its ends within the other of said openings in the bracket, the opposite end of said last mentioned leg being turned at right angles to itself into a horizontal portion adapted at its outer end for selective engagement with said channel in the inwardly turned portion of the first mentioned leg to provide a support for

a mop, a clamping element including a cross-head having an aperture formed in each of its ends and slidably and adjustably attached by means of said apertures to said frame to keep the legs thereof from spreading and for exerting pressure against the mop and locking pressure to the engaged ends of said legs whereby removal of pressure of the clamping element from the mop said horizontal portion of said last mentioned leg will be free to become disengaged from the channel in the other leg and swung outwardly in a horizontal plane away from said other leg for slidable removal of the mop therefrom.

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