

B. HARR.

MOP.

APPLICATION FILED OCT. 3, 1914.

1,182,844.

Patented May 9, 1916.

Fig. I.

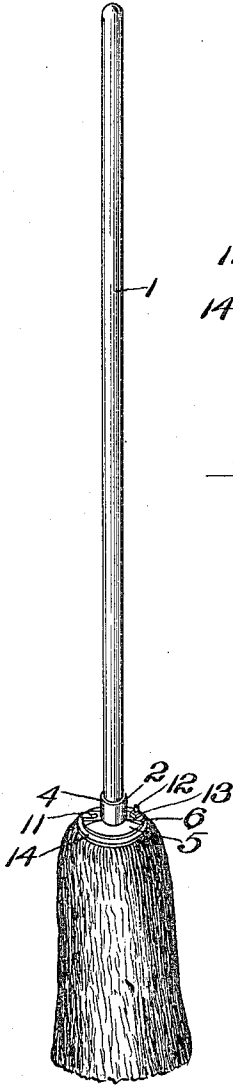


Fig. II.

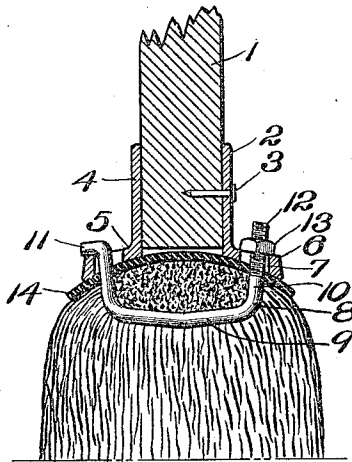


Fig. III.

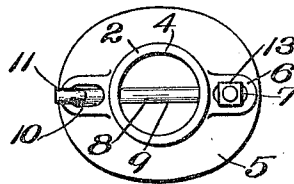


Fig. IV.

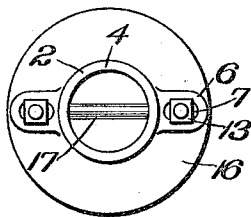


Fig. V.

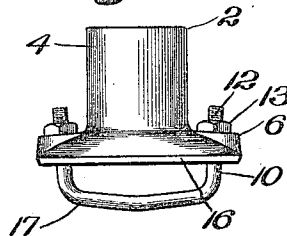


Fig. VI.

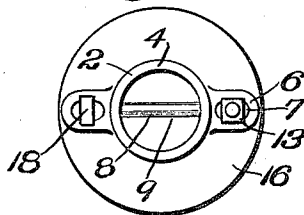
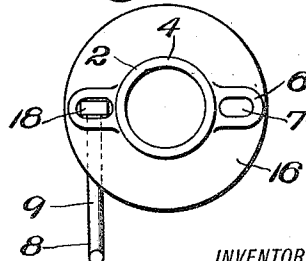


Fig. VII.



WITNESSES:

Arthur W. Caps.
Lynn A. Robinson,

INVENTOR

Balser Harr.

Arthur E. Brown
ATTORNEY

UNITED STATES PATENT OFFICE.

BALSER HARR, OF KANSAS CITY, MISSOURI, ASSIGNOR TO CATHERINE HARR, OF KANSAS CITY, MISSOURI.

MOP.

1,182,844.

Specification of Letters Patent.

Patented May 9, 1916.

Application filed October 3, 1914. Serial No. 864,896.

To all whom it may concern:

Be it known that I, BALSER HARR, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Mops; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to mops, and more particularly to means for clamping a mop head to its stick; the principal object of the invention being to provide an adjustable device of this character, whereby the head may be easily and quickly applied to the stick, and which will securely hold the parts together when they are assembled. In accomplishing this object, I have provided the improved details of structure hereinafter described and illustrated in the accompanying drawings, wherein:

Figure I is a perspective view of a mop constructed in accordance with my invention. Fig. II is an enlarged vertical section of a portion of the same. Fig. III is a plan view of the clamp and ferrule. Fig. IV is a similar view of a modified form of clamping device. Fig. V is an elevation of the same. Fig. VI is a plan view of another modified form of clamping device. Fig. VII is a similar view, showing the clamp in open position.

Referring more in detail to the parts: 1 designates a mop stick of ordinary design, having a ferrule 2 rigidly secured to one of its ends by a nail 3. The ferrule is formed of metal and comprises a tubular neck 4, which is adapted for application to the end of the mop stick, and a concave, preferably oval flange 5; the latter being provided with downwardly and outwardly inclined, elongated bosses 6 on its upper surface, having elongated apertures 7. Loosely mounted in the apertures 7 is a clamp bar 8, which comprises a U-shaped rod, having a slightly curved base 9 and upwardly and outwardly inclined side members 10, one of which is provided with an outwardly turned hook 11 that rests on the upper face of one of the

bosses 6, and the other being provided with screw threads 12 for receiving a nut 13.

Covering the concave face of the flange 5 and projecting beyond the edges thereof, is a rubber, or like washer, 14 through which the clamp bar 8 projects and against which a bunch of string or yarn is placed in such a manner that when it is engaged by the clamp bar 8, the string or yarn is drawn against the rubber washer and into the concave face of the ferrule, thereby spreading the strands and rounding the body to form a symmetrical mop.

As a modification of the above described structure, I have shown (Figs. IV and V) a ferrule having a round flange 16 and a clamp bar 17 similar to the bar 8, except that both the free ends are threaded to receive nuts 13. This form of clamp permits a wider range of adjustment and is preferably used in making large mops in which a greater quantity of string or yarn must be compressed.

Still another form of clamp is shown (Figs. VI and VII) in which one of the free ends of the clamp bar is provided with a cross head 18, which may be inserted in the slot 7 as clearly shown in Fig. VII; the other end being provided with a nut 13, so that when the bar is turned and the threaded end inserted in the other slot 7, the nut may be tightened to spread and hold the string in place.

In assembling the mop, presuming the parts to be constructed as described, a bunch of string or yarn is cut to the required length and the U-shaped clamp bar 8 placed around the middle portion. The hook 11 is then inserted in one of the apertures 7 and the bar revolved, so that the threaded end 12 enters the other aperture 7, in which position the nut 13 is screwed on the shank to draw the string against the rubber washer and into the concave portion of the ferrule to spread the strands and round out the body of the mop.

It is apparent that by inclining the bosses 6 and the free ends 10 of the U-shaped clamp bar 8, as the bar is drawn up by the nut the string is crowded more to the center of the ferrule, so that the slightly curved base 9 of the bar will coact with the concave surface of the flange 5 to round out the body of the mop. It is also apparent that with

the rubber washer 14 extended beyond the flange 5, there is no danger of the metal flange scratching floors or objects against which the mop is brought in contact, because the edge of the flange 5 is entirely protected.

While I have described and illustrated my invention as applied to mops, it is to be understood that the same can be applied to dusters, and the like without departing from the scope of the invention.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters-Patent, is:

1. The combination with a handle, of a ferrule on said handle having a bell-shaped head provided with alining transverse slots, a U-bolt having its ends located in said slots, means on the ends of the U-bolt for locking

the bolt to said head, and a relatively soft washer seated in said head and projecting from the edge thereof.

2. The combination with a handle, of a ferrule on said handle having a bell-shaped head provided with radial slots, a mop cloth; a flexible washer interposed between the mop cloth and head and projecting beyond the head, and a clamp binding the cloth to the head and shaping the washer to the interior of the head, whereby the free edge of the washer is pressed against the mop cloth around the head.

In testimony whereof I affix my signature in presence of two witnesses.

BALSER HARR.

Witnesses:

LYNN A. ROBINSON,
LETA E. COATS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."