Oct. 20, 1925. 1,557,894

H. M. STURGIS

MOP HANDLE FIXTURE

Filed Nov. 14, 1924

Fig. 1.

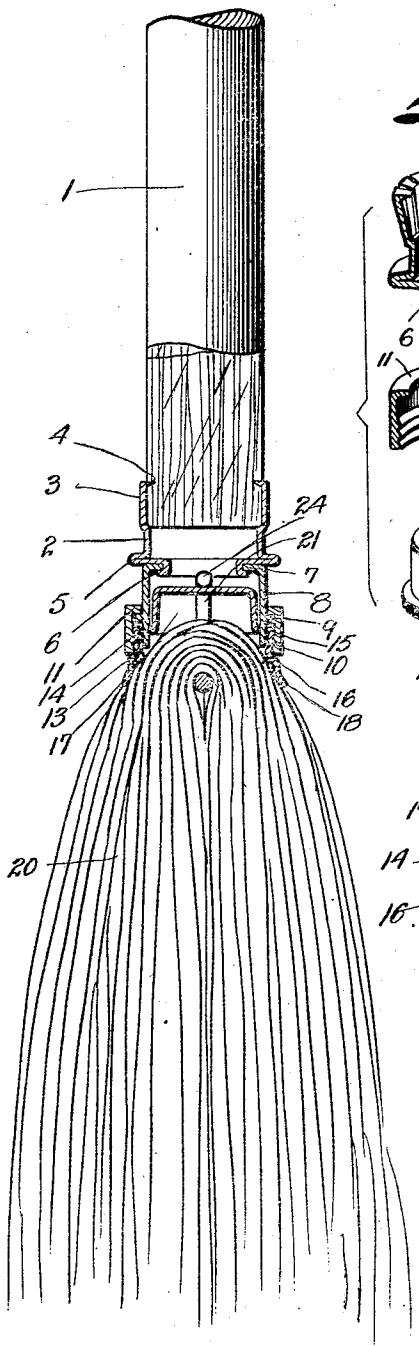


Fig. 3.

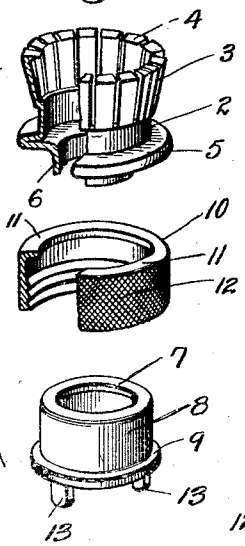


Fig. 2.

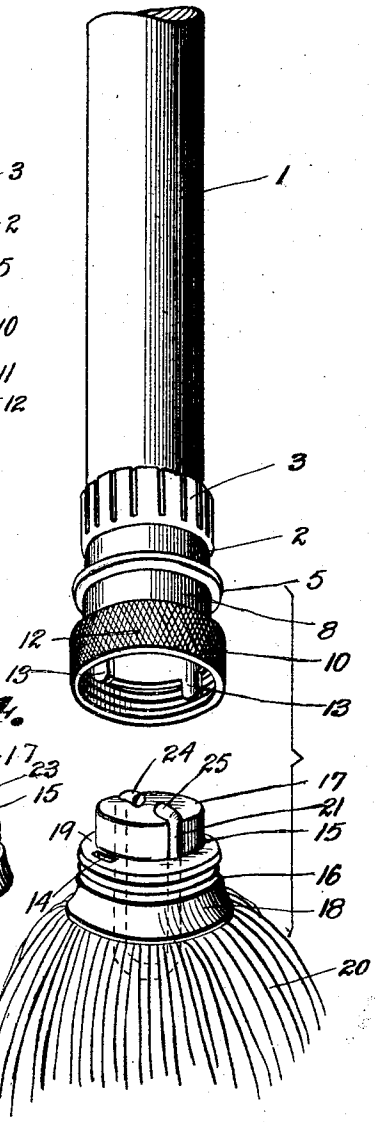
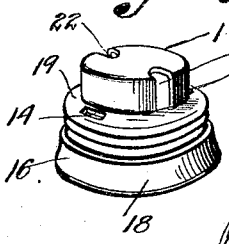


Fig. 4.



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MOP-HANDLE FIXTURE.

Application filed November 14, 1924. Serial No. 749,816.

To all whom it may concern:

Be it known that I, HERBERT M. STURGIS, 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 Mop-Handle Fixtures; 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 figures of reference marked thereon, which form a part of this specification.

This invention relates to a mop handle fixture and the primary object thereof is to provide an inexpensive, efficient and durable mop handle fixture comprising a connection which may be easily attached to a mop head in such a manner that liability of the mop head accidentally becoming loose will be eliminated. Such devices must of necessity be easily constructed so that they can be produced at a relatively low cost and yet they must be efficient enough to serve the purpose for which they are intended.

I have provided such a device and the novel construction will be clearly disclosed in the following description in connection with the accompanying drawings, in which—

Fig. 1 is a vertical longitudinal sectional view through a mop handle fixture constructed in accordance with my invention.

Fig. 2 is a perspective view of the socket member and the mop head detached.

Fig. 3 is a disassociated perspective view of a two-part socket member and a collar to be secured to the handle, and

Fig. 4 is a perspective view of the mop head.

The handle 1 may be of any appropriate construction. To it may be secured a ferrule, consisting of a sleeve 2 with a plurality of tines or fingers 3 with right angular projecting handle engaging ends 4. The fingers 3 are arranged in circular series and are separated by spaces so that the tines may be forced into the wood handle 1.

The tubular member 2 is crimped to provide a collar 5 with a depending flange 6 adapted to be turned under the collar 7 of the tubular socket member 8 so that the members 2 and 8 constitute a two-part socket member fastened to the handle. The socket member 8 is provided with a rigid collar or flange 9 between which and the collar 5 is loosely supported a threaded collar or nut 10 in a diameter slightly in excess of the outer diameter of the member 8 and having an inwardly extending annular bead or lip 11, the inner diameter of which is less than the outer diameter of the collars 5 and 9 so that the nut cannot become detached after the socket member 8 is fastened to the socket member 2.

The ring or nut 10 is preferably knurled as at 12 to facilitate turning it. The end of the member 8 is provided with longitudinal projections or fingers 13 adapted to engage slots 14 and 15 in a hollow metallic mop head 16 having an end 17 adapted to be received in the member 8 and provided with a threaded skirt 18 connected to the member 17 by a shouldered portion 19. The skirt 18 is adapted to fit over the end of the mop or swatch 20 and it is adapted to be secured thereto by a staple 21 which has portions passing through the grooves 22 and 23 with the ends 24 and 25 bent over the portion 17.

In constructing the device, the members 2 and 8 may be made separately. The ring nut 10 may be then slipped over the member 8, the flange 6 will then be inserted through the opening by the bead or lip 7 and turned back so as to effect a rigid connection between the members 2 and 8.

The ferrule or member 2 may then be slipped over the handle 1 and the inbent ends of the tines will be forced into the wood. The socket member is then properly attached to the handle.

When it is desired to connect the swatch or more correctly the mop head to the handle, the member 17 is inserted in the socket member 8, the fingers 13 are then inserted in the slots 14 and 15 so that the socket member and handle cannot turn with respect to the head. The nut is then screwed into position upon the threaded skirt. Since the member 8 will be held against rotative movement by the fingers 13 and since it will be held against longitudinal movement by the threaded connection effected by the nut 10 on the skirt 18, it is obvious that the socket member will be efficiently attached to the mop head. Consequently liability of the socket member and mop head becoming accidentally displaced will be entirely eliminated.

Whenever it is desirable to remove the handle from the mop, so that it may be used on another mop or for any other purpose,

it will be necessary only to unscrew the nut 10 so that it disengages the threaded skirt, then the socket member may be quickly disassociated from the mop head by a longitudinal movement.

It will be apparent that a device constructed in accordance with my invention will efficiently and positively lock the socket member and mop head together so that they cannot become accidentally detached and while I have shown the mop head as associated with the conventional form of mop swatch, I do not wish to be limited to any particular form of mop.

What I claim and desire to secure by Letters-Patent is:—

A mop handle fixture comprising a ferrule having a collar, a socket member connected to the ferrule provided with a collar distant from the collar on the ferrule, a ring nut on the socket member confined in its longitudinal movement between the two collars the distance between the collars being sufficient to permit longitudinal movement of the ring nut, a distance substantially the width of the nut, the free end of the nut extending beyond the end of the socket member, projections on the socket member and a threaded mop head having slots for engagement by the projections, the threads on the head being engageable by the threads on the nut.

In testimony whereof I affix my signature.

HERBERT M. STURGIS.