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U. J. EWING

1,737,366

MOP

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Fig. 1.

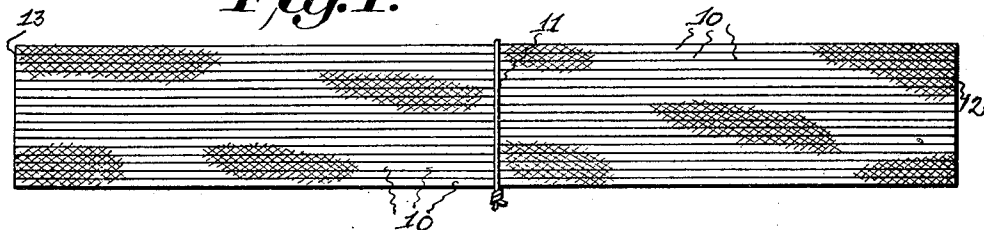


Fig. 2.

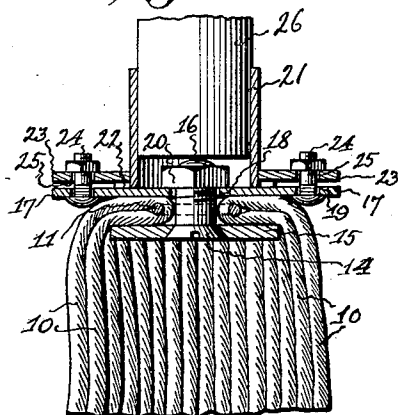
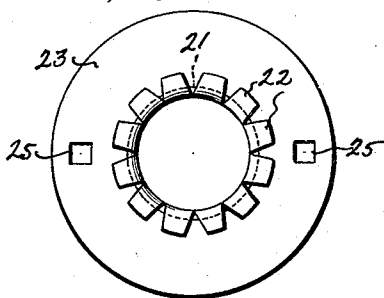


Fig. 3.



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MOP

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This invention relates to cleaners, polishers, or mops, and more especially to that type in which a special round form of cleaner, polisher, or mop is adapted to be removably attached to a member which is capable of being secured to a rod or handle so as to enable said cleaner or mop to be easily and quickly removed from the rod or handle and washed or cleaned, or be used for a variety of purposes without the handle, if so desired.

The objects of the invention are:

First, to provide a wet or dry round mop of the character above indicated which is cheap to manufacture and assemble and consists of a minimum number of parts, and in which the several and cooperating parts for holding the textile element of the mop are capable of being stamped out and assembled at a low cost.

Second, to provide a mop in which all the parts are capable of being easily taken apart and enable the textile element of the mop to be readily washed or cleaned or passed through an ordinary clothes wringing machine without in any way impairing its efficiency and long continued use.

Third, to provide a mop in which the textile element is adapted to be easily assembled and so constructed as to enable the same to be manufactured with the minimum number of operations and properly connected to the metal elements of the holder with a minimum number of parts.

Fourth, other advantages of construction and relation of parts will be apparent and understood from the detailed description to be hereinafter disclosed.

The invention consists of structural characteristics and relative arrangement of elements which will be hereinafter more fully described and particularly pointed out in the appended claims.

In the drawings, in which similar reference characters indicate the same parts in the several figures,

Figure 1 is a plan view of the manner of arrangement and securing together the strands of the textile element during the manufacture of the absorbent or wiping member of the mop;

Figure 2 is a vertical section of one form of the mop;

Figure 3 is a plan view of several of the elements detached from the assembled position shown in Figure 2.

Referring to Figure 1, 10, 10 represent a series of strands of the usual textile material which constitutes the absorbent or wiping element of a mop, and said strands are first placed on a horizontal plane and in juxtaposition to each other, as indicated, to form the proper width or diameter of upper or closed end of a mop. Slightly offset from the center of the length of said strands 10, 10 is encircled or tightly wound a wire or ring 11, so that, as indicated in Figure 1, the section 12 of the strands 10 on the right of the wire or ring 11 is slightly shorter than the section 13 of the strands on the left of the ring 11.

After the strands 10 are so secured together the longer section 13 of strands are separated from the center and permitted to fall over the shorter section 12, as shown, for example, in Figure 2.

After the short and long sections 12 and 13 of the strands 10 are so disposed with each other on the ring or wire 11, a bolt or pin 14 having at its unthreaded end or head a washer 15 is forced through the ring or wire 11 and separates the strands 10 in such a manner so that said strands are made to assume and be held in the position shown in Figure 2. The washer 15 performs the function of spreading out the strands 10 to form a hollow frustrum of a cone when the mop is held vertically in the position shown in Figure 2.

Over the threaded and upper end 16 of the bolt 14 is slipped an annular washer 17 having a central circular opening 18 at its center and two preferably square-shaped openings 19 for purposes to be presently described. 20 is a nut engaging the threaded end 16 of the bolt 14 for forcing the washer 17 towards the washer 15 and firmly bind or hold the middle or portions of the strands 10 adjacent to the ring or wire 11 between the upper and lower washers 15 and 17, as indicated.

21 is a cylindrical socket having at its end adjacent to said washer 17 a series of integral and separated tongues 22, 22 struck up from the body of the washer 17, as clearly shown in Figure 3. Said socket 21 being securely held to said upper washer 17 by means of an annular plate 23 encircling said socket 21 and engaging the tongues 22, 22, and small bolts 24, 24 passing through square-shaped openings 19 and 25 in said washer 17 and plate 23, as clearly shown in Figure 2.

26 is a lower section of the usual handle or pole secured in the socket 21, which is of common usage and needs no further disclosure.

From the foregoing description, it will be seen that a mop has been produced in which all the advantages of construction and operation recited in the statement of invention have been fully and efficiently carried out, and many changes will readily suggest themselves without departing from the spirit of the invention, as set up in the scope of the claims.

What I claim is:

1. A mop comprising a ring, separate and independent strands of absorbent fibre folded over said ring and arranged to have their middle sections in juxtaposition with each other and encircling said ring, a securing bolt passing through said ring and contacting with and forcing and clamping the middle sections of said strands within the ring against the inner annular wall of said ring, a lower circular washer attached to the inner end of said securing bolt for spreading out equally the free sections of the strands not encircling said ring, an upper clamp washer secured at the outer end of said securing bolt for clamping the middle sections of the strands between said ring and upper and lower washers.

2. A mop comprising a ring, separate and independent strands of absorbent fibre folded over said ring and arranged to have their middle sections in juxtaposition with each other and encircling said ring, a securing bolt passing through said ring and contacting with and forcing and clamping the middle sections of said strands within the ring against the inner annular wall of said ring, a lower circular washer attached to the inner end of said securing bolt for spreading out equally the free sections of the strands not encircling said ring, an upper clamp washer secured at the outer end of said securing bolt for clamping the middle sections of the strands between said ring and upper and lower washers, and means for attaching a handle to said mop.

In testimony whereof I hereunto affix my signature.

URBANE J. EWING.