H. H. KNAPP.

FOUNTAIN MOP.

APPLICATION FILED JUNE 13, 1917.

1,271,586.

Patented July 9, 1918.

2 SHEETS—SHEET 1.

FIG. 1.

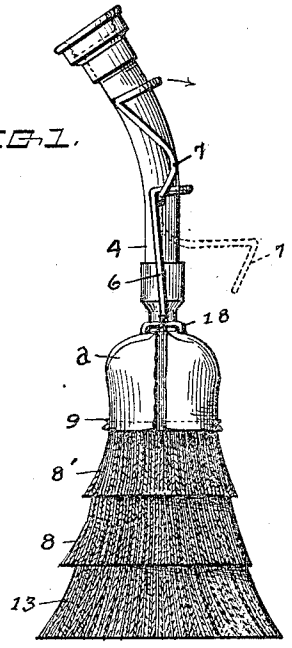


FIG. 2.

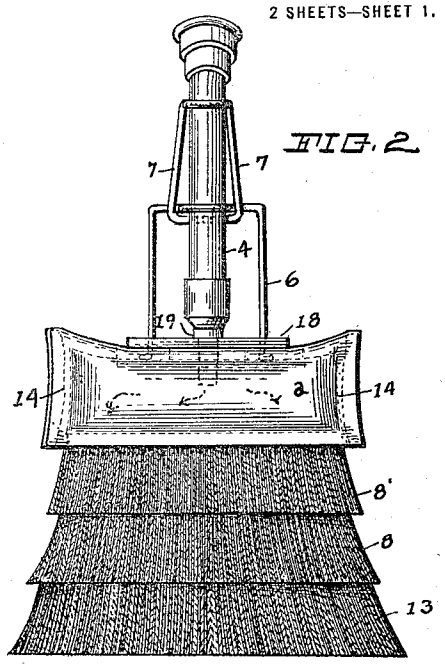


FIG. 3.

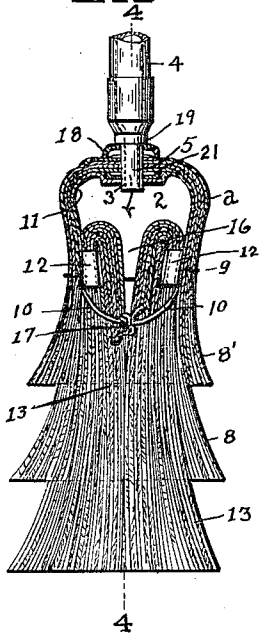
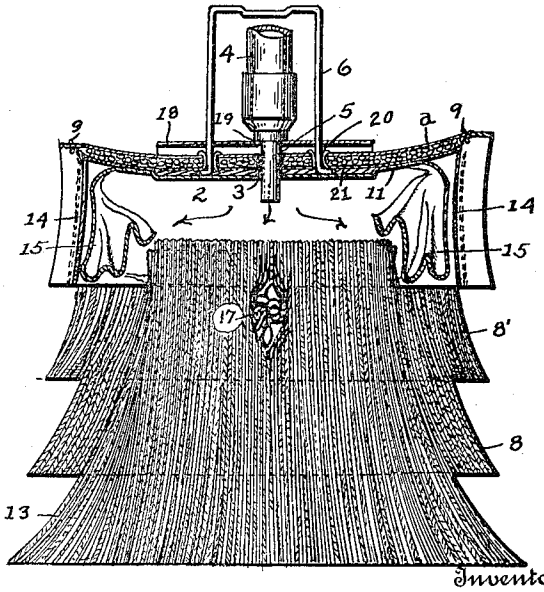


FIG. 4.



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2 SHEETS—SHEET 2.

FIG. 5

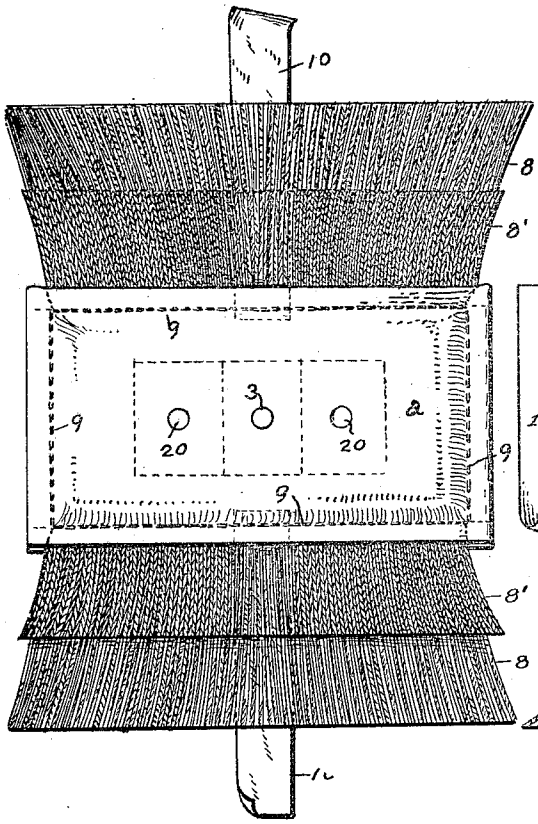


FIG. 6

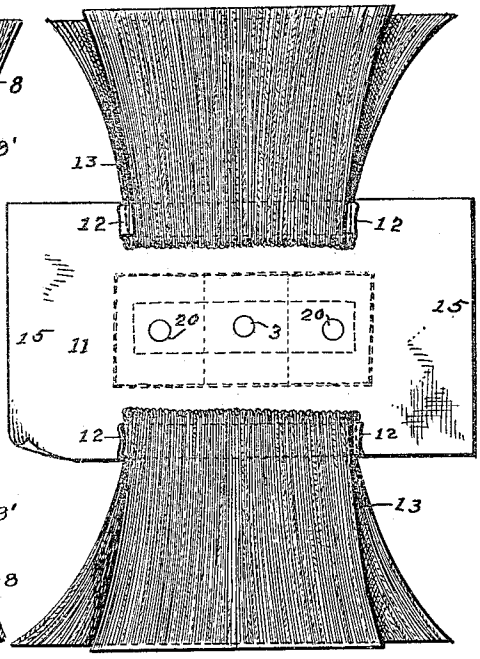
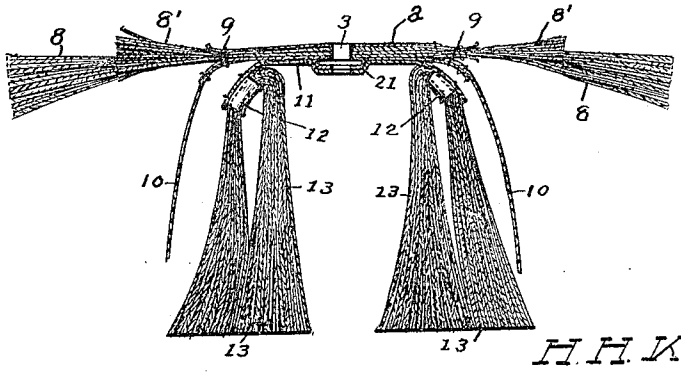


FIG. 7



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UNITED STATES PATENT OFFICE.

HOWARD H. KNAPP, OF CLEVELAND, OHIO, ASSIGNOR TO THE AMERICAN TEXTILE MANUFACTURING COMPANY, OF CLEVELAND, OHIO, A CORPORATION.

FOUNTAIN-MOP.

1,271,586. Specification of Letters Patent. Patented July 9, 1918.

Application filed June 13, 1917. Serial No. 174,454.

To all whom it may concern:

Be it known that I, HOWARD H. KNAPP, citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fountain-Mops, of which the following is a specification.

This invention relates to an improvement in fountain mops, and the device is especially useful in cleansing automobiles, although not limited to that particular field and use. The mop is made of textile strips and cords assembled and united in a particular way to spread and distribute water under pressure without a splattering or jet discharge, and as united the parts afford a firm and compact body adapted to withstand hard usage while otherwise sufficiently soft and yielding to prevent the marring of a polished surface.

In the accompanying drawings, Figure 1 is a side view of my improved mop affixed to a tubular pipe connection, and Fig. 2 is a front view thereof. Fig. 3 is a sectional view transversely and centrally of the mop, and Fig. 4 is a sectional view on line 4—4, Fig. 3. Fig. 5 is a plan view of the outer pad for the mop stretched flat, consisting of a double layer or cords secured between their ends within a wrapper or envelop made of cloth, and Fig. 6 is a plan view of the inner pad for the mop, consisting of two separate bundles of cords secured to a piece of cloth, and also stretched flat. Fig. 7 is a sectional view of the outer pad and inner pad as these parts appear assembled before being folded and finally sewed together to form the mop.

The invention comprises a padded body made of woven fabric and twisted strands, the strands being secured in layers upon the fabric and the fabric and layers being sewed together in a folded state to provide a water-distributing chamber 2 having a central opening 3 on the median line of the body where the main fold is produced. The mop is preferably a detachable part on a tubular handle comprising a water supply pipe 4 having a nipple 5 which is adapted to fit snugly within opening 3 and to project into chamber 2, and the means for securing the mop detachably upon this pipe may be of any suitable character, but as shown consists of a wire yoke 6 having hook engagement with the mop body and a locking connection with the pipe and a pivoted spring catch 7, see Figs. 1 and 2.

The mop body is constructed as follows: Two flat layers of twisted strands or cords 8 and 8′, respectively, of different length, are enveloped at their middle by a band *a* of cloth, preferably duck or canvas. The cords are sewed or united to the border of the band by stitches 9 (see Fig. 5), thus producing a flexible pad having two cord flounces of graduated length at opposite edges thereof. That is one flounce or fringe at each edge of the pad extends approximately twice as far from the edge of the band as the other. Two cloth straps 10 are also sewed to the opposite edges of band *a* wherewith to tie the middle portions of the pad firmly together when folded subsequent to the mounting thereon of a lining or a stuffing pad (shown in Fig. 6) and hereinafter referred to as the inner pad. This inner pad consists of a piece of cloth 11 of approximately the same size as the envelop or band *a*, and narrow strips 12 of cloth are sewed in the form of loops to the opposite border portions of piece 11 together with two flat bunches of cords 13, the strips 12 crossing and securing the cords midway of their length to each edge portion of the piece 11. It follows, therefore, that each bunch of cords 13 may be folded upon itself (see Figs. 6 and 7) and the piece of cloth 11 sewed upon the bottom face of a band *a* as appears in Fig. 7. As thus united the two bunches of cords 13 may be suspended opposite each other and pressed together in close union by folding band *a* and piece 11 together on a median line as shown in Fig. 3. Then the folded ends are stitched together as indicated at 14, Figs. 2 and 4, thus sealing the opposite ends of chamber 2. The band *a* forms an outer casing or cover, and the cloth piece 11 an inner lining having its opposite ends 15 gathered in irregular folds within the stitched end borders of this casing, and these irregular folds occupy the space at the bottom of chamber 2 between the cords 13 and the stitched seam 15, but do not shut off the flow of water entirely at these places. The gap or space 16 between the juxtaposed layers of cords 13 (see Fig. 3) may be closed by tying the straps 10

tightly together, the knot or tied ends 17 becoming embedded and concealed within the mass of cords.

A flanged strip 18 of metal is sleeved upon wire yoke 6 and adapted to be engaged by a shoulder portion 19 on pipe 4, whereby the mop body is clamped upon the pipe 4 when the hooked ends of the wire yoke 6 are engaged through the openings or eyelets 20 within the mop body. A metal strip 21 may be sewed within the folds of the fabric to stiffen and reinforce the otherwise soft and yielding body so that a more effective clamping engagement may be made.

In use, the water is free to permeate the entire mop body but the actual outflow is through the mouth at the bottom thereof about the strands or cords. Obviously, such outflow is under restraint and uniformly distributed by the use of the strands or cords, while the graduated flounces give flexibility and a flat-wiping mop body.

What I claim is:

1. A fountain mop, comprising separate layers of twisted strands and an envelop of woven fabric folded and secured together flatwise and having a water intake opening on the fold line thereof, the strands extending in flounce formation beyond the edge of the fabric.

2. A fountain mop, comprising a padded casing made of twisted strands and an enveloping band of woven fabric, and an inner lining for said casing composed of plaits of strands united to and extending downward from said casing.

3. A fountain mop comprising a band of woven fabric having layers of strands of different length affixed thereto, and a lining of cloth for said band having cords affixed thereto, said parts being folded and secured together and having a water intake opening and a central water-distributing chamber.

4. A fountain mop, comprising two layers of twisted strands of graduated length having a band of woven fabric enveloping the same at their middle and folded together, and a lining of fabric having separate plaits of twisted strands secured to its edges and folded within said band and its layers of strands.

5. A fountain mop made of a band of cloth and layers of twisted strands enveloped thereby, and a piece of cloth having layers of twisted strands secured to its edges, said cloth parts being united and folded to incase said strands and said mop provided with an internal water distributing chamber and a central opening thereto for a water supply pipe.

6. The combination of a tubular member having a reduced extremity, with a fountain mop having a yielding body made of woven fabric and twisted strands folded together and having a central opening to receive said extremity and provided with a strip of metal and fastening means to clamp the yielding body on the fold line thereof rigidly to said tubular member.

7. A fountain mop having a chambered body made of woven fabric and twisted strands folded together and provided with an opening and eyelets at the sides of said opening, and a wire yoke at its fold line engaged in said eyelets at its ends, wherewith attachment may be made with a tubular water-supply pipe.

8. A fountain mop having a pad comprising folded fabric having a central opening and a lining of twisted strands having their ends projecting beyond the edges of said pad, the pad being sewed shut at its ends and flexible tie members at its edges intermediate said ends binding the middle portions of said pad together in combination with inner padded material extending beneath said twisted strands.

9. A fountain mop consisting of a folded casing of woven fabric and separate layers of cords of different length folded within said casing and the exposed portions thereof providing flounces of varying length at the bottom border edges of said casing, said casing having a central opening to receive a water pipe and eyelets at the sides thereof to accommodate a fastening member for a water supply pipe.

10. A fountain mop comprising a casing consisting of separate layers of twisted strands and a fabric enveloping said strands between their ends, said casing being folded and sewed together to provide a water distributing chamber having a central intake opening, and means to affix said parts to a tubular handle comprising a wire yoke affixed to said casing and a clamping plate carried by said yoke.

Signed at Cleveland, in the county of Cuyahoga, and State of Ohio, this 16th day of May, A. D. 1917.

HOWARD H. KNAPP.

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