Dec. 28, 1926. 1,612,286

L. HEMPLE

FOUNTAIN MOP

Filed July 30, 1923

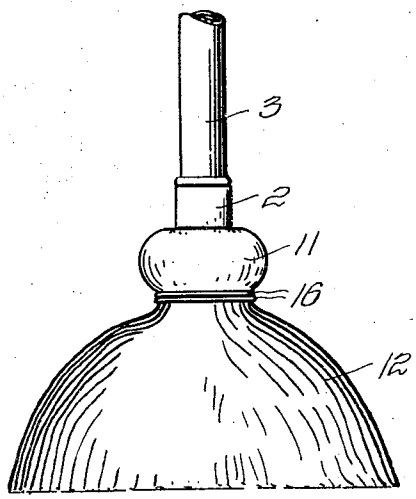


Fig. 1.

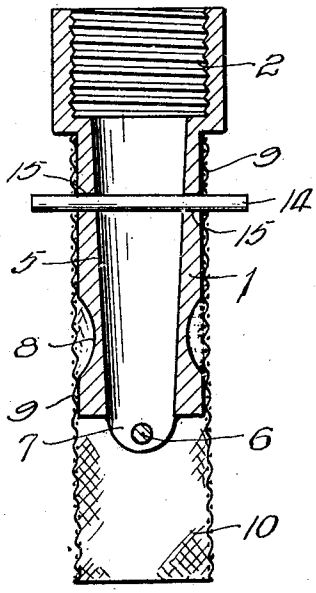


Fig. 3.

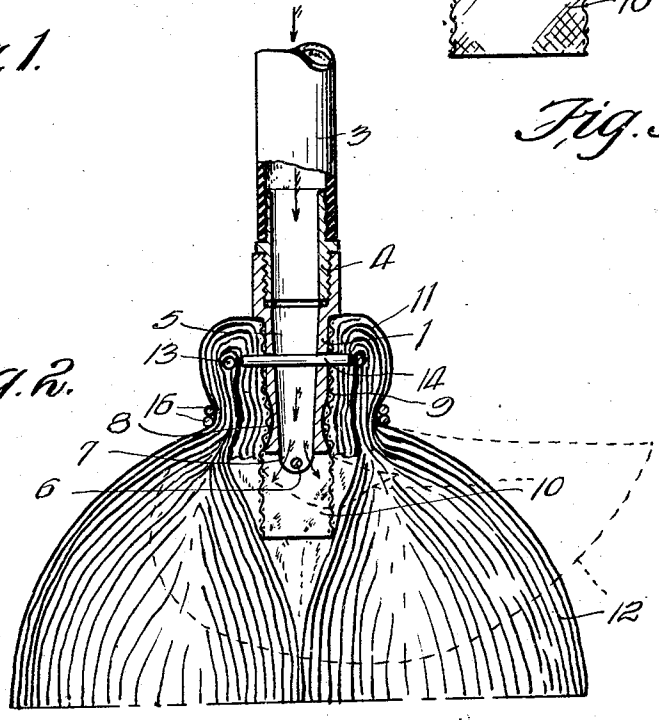


Fig. 2.

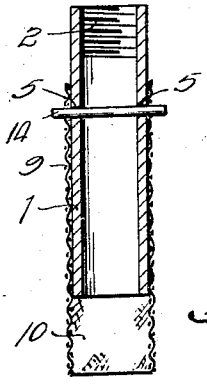


Fig. 4.

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UNITED STATES PATENT OFFICE.

LEON HEMPLE, OF ST. LOUIS, MISSOURI.

FOUNTAIN MOP.

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My invention relates to a fountain mop and, is a distinct and practical improvement to overcome certain practical objections to, and defects in, devices of a similar character.

The object of my present invention is the provision of a mop which is simple in construction and so constructed as to be readily applied to either a hose or mop stick.

A further object of the invention is the provision of a device of the class described provided with extended flexible means to prevent metal parts thereof from coming into contact with and scratching the surface of a vehicle or floor being washed or cleaned.

A further object of the invention is the provision of means to spread or divert the flow of water in two opposed directions at the water outlet of the device to prevent splashing of the flow when saturating mop or washer body.

A still further object of the invention is the provision of means for holding the mop head in position upon the nozzle thereof.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claims hereto appended.

Referring to the accompanying drawing forming a part of this specification, wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is a side elevation of the mop as it appears applied to either a hose or stick.

Fig. 2, is a sectional view of the device embodying the features of my invention.

Fig. 3, is a sectional view of the nozzle as it appears without the mop applied thereto.

Fig. 4, is a modified form of nozzle.

In carrying out the aim of my present invention, I employ a nozzle member 1 provided at its upper end with the internally screw threaded socket 2, to which may be connected a hose 3 through the nipple 4. If it is desired not to use the mop as a fountain device, a suitable handle provided with the nipple 4 may be substituted for the hose 3. The nozzle 1 is preferably, although not necessarily provided with a tapered water passage 5. The lower end of the nozzle 1 is provided with a centrally disposed transversely directed spreader bar 6, preferably, although not necessarily supported by the extended ears 7. The peripheral surface of the nozzle 1, near its lower end, is preferably, although not necessarily provided with a channel 8.

Surrounding the nozzle 1 is a wick fabric sleeve 9. The lower end of the sleeve 9 extends beyond the lower edge of the nozzle 1 a suitable distance, as at 10, to afford flexible covering means for the lower end of the nozzle to prevent the scratching of surfaces during washing or cleaning movements of the device, as will be apparent hereinafter.

The numeral 11 represents a mop which is formed of the usual fabric mop strands arranged around the periphery of the nozzle member and longitudinally thereof with the lower free ends thereof extending beyond the lower end of the nozzle to provide the mop body. The mop strands forming the head 12 of the body 11 engage the peripheral surface of the nozzle. At a point above the peripheral channel 8, the mop strands are secured around the nozzle 1 by means of a suitable binding cord 13. The mop strands are also securely held from slipping down the nozzle by means of a cross-pin 14 which is receivable in the nozzle openings 15 and passes transversely through the nozzle with its ends extending beyond the peripheral surface thereof. The upper ends of the mop strands are then folded back upon themselves outwardly above, the binding cord 13 and directed downwardly. These mop strands are then bound to the nozzle 1 by means of the binding cord 16 which forces and holds the mop strands in contact with the channeled portion of the nozzle 1 for completing the head 12 and further securing the mop strands to the nozzle for securely holding the head portion of the mop from displacement upon the nozzle 1.

In the modified form of nozzle shown in Fig. 4, it will be observed that I employ an ordinary pipe 1 threaded, as at 4, instead of being provided with a screw threaded socket, and I also eliminate the cross-pin spreader bar 6.

It will be apparent from the dotted lines in Fig. 2, that as the mop strands are displaced in mopping or washing operations of the device that the cords will cause the extended end 10 of the fabric sleeve 9 to yield or flex so as to cover the lower end of the nozzle to eliminate any possible chance of scratching surfaces being mopped or washed.

When the device is being used as an automobile washer, the device is connected to a

hose so that the water from the hose can pass through the nozzle of the device to furnish the mop body 11 with a continuous flow of water which cannot splash.

From the foregoing description, it is evident that I provide a very simple device which can be used either for washing vehicles or mopping floors, that it will not scratch surfaces and will cause opposed flows of water to be absorbed by the mop strands thereby proving itself highly efficient for the purposes intended.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which it appertains.

I do not desire to be understood as limiting myself to the exact details of construction and arrangement of parts as herein described and illustrated, as it is manifest that variations and modifications may be made without departing from the spirit and scope of my invention and the terms of the following claims, hence I wish it to be understood that I reserve the right to make any such changes or modifications as may fairly fall within the scope of the appended claims when fairly construed.

What I claim is:

1. In a fountain mop, a nozzle member having a screw threaded socket for the connection of a hose thereto, a fabric sleeve carried by the nozzle and extending below the lower end of the nozzle, mop strands applied to the nozzle and means to prevent displacement of the mop strands upon the nozzle.

2. A fountain mop comprising a nozzle having a screw threaded socket to which a nipple can be applied, a fabric sleeve applied to the nozzle and extending below the lower edge thereof, mop strands fixed to and surrounding the nozzle and extending below the lower edge of the nozzle and a cross bar spanning the outlet end of the nozzle for diverting the flow of water to the mop strands in opposite directions for retarding and spreading the flow thereof.

3. In a fountain mop, a nozzle member having a screw threaded socket for the connection of a hose thereto, a fabric sleeve carried by the sleeve and extending below the lower end of the nozzle, mop strands applied to the nozzle, means to prevent displacement of the mop strands upon the nozzle and a cross bar spanning the outlet end of the nozzle for diverting the flow of water to the mop strands in opposite directions for retarding and spreading the flow thereof.

4. A fountain mop comprising a nozzle having a screw threaded socket to which a nipple can be applied, a fabric sleeve applied to the nozzle and extending below the lower edge thereof, mop strands fixed to and surrounding the nozzle and extending below the lower edge of the nozzle, inner and outer binding cards for securing the mop strands to the nozzle, a cross-pin fixed to the nozzle and spanning the passage thereof and a cross bar spanning the outlet end of the nozzle for diverting the flow of water in opposite directions to the mop strands.

5. In a fountain mop, a nozzle having a screw threaded socket for the connection of a hose thereto, a sleeve carried by the nozzle and extending below the lower end of the nozzle, mop strands applied to the nozzle and a pin passing transversely through the nozzle with its ends projecting beyond the outer face of the nozzle to prevent rotary displacement of the mop strands applied to the nozzle.

6. In a fountain mop, a nozzle having a screw threaded socket for the connection of a hose thereto, a sleeve carried by the nozzle and extending below the lower end of the nozzle, mop strands applied to the nozzle and a pin passing transversely through the nozzle with its ends projecting beyond the outer face of the nozzle and disposed between some of the mop strands on opposite sides of the mop to prevent twisting displacement of the mop strands and cords engaging the mop strands for securing the mop strands to the nozzle.

In testimony whereof, I have hereunto signed my name to the specification.

LEON HEMPLE.