

H. A. HAYDEN.

MOP.

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1,002,268.

Patented Sept. 5, 1911.

Fig. 1.

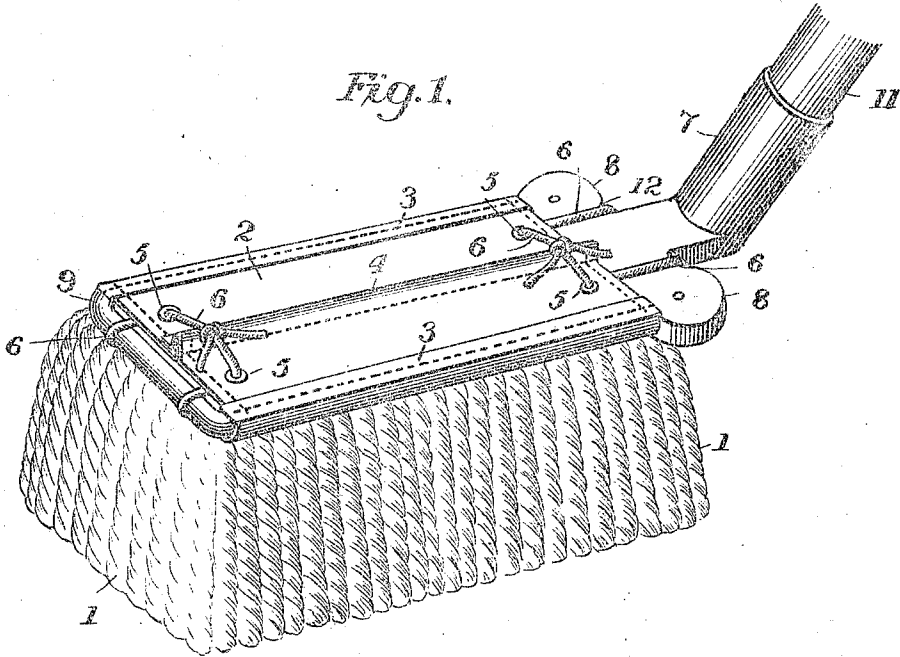


Fig. 2.

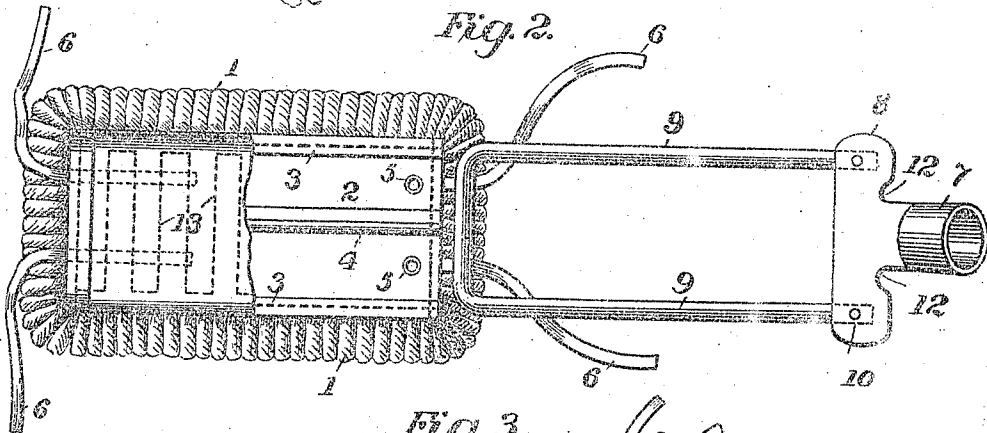
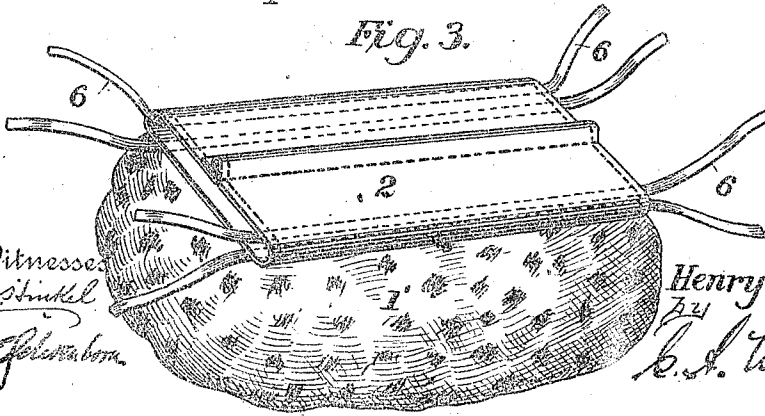


Fig. 3.



Witnesses
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MOP.

1,002,268.

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To all whom it may concern:

Be it known that I, HENRY ARTHUR HAYDEN, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Mops, of which the following is a specification.

This invention relates to certain improvements in mops, and more particularly to mops which are intended for washing or cleansing floors, sidewalks, etc.

An important object of my invention is to provide a device of this character wherein the mop and the mop holder are of elongated form and in which the handle enters a socket at the rear of the longest dimension of the holder, the socket being arranged at an angle to the general direction of the mop, whereby the operator gives a sidewise swinging motion to the mop in a series of long sweeps, as distinguished from the ordinary method of manipulating such devices in directions toward and from the operator. In a well known form of prior devices of this character, the mop head comprises a rigid bar or jaw, and a movable bar between which the twisted cotton, cloth or other material used is clamped. In operating this form of mop the same is moved to and from the operator, who holds the handle in such a manner that the clamping jaws of the mop holder are transversely arranged to the direction of movement of the mop in operation. It is found that the material of the mop of such construction frequently doubles upon itself, becomes tangled and matted together, and the constant pressure due to the lower bar of the clamp soon wears out the material of the mop, causing the mop holder to come in contact with the floor being treated, and scratching the same. My invention avoids this difficulty because the mop in action operates in the manner of a brush, and by reason of its construction there is no liability of the frame portion of the holder coming in contact with the floor. By reason of the elongated shape of the frame of my mop holder a further advantage is found in that the mop is adapted to enter the corners of rooms with ease, and to thoroughly cleanse them.

Another important feature of my invention consists in the provision of a flexible casing to which the strands of cotton or other material are secured, such casing being preferably, though not necessarily, of

some waterproof fabric. This casing is open at one or both ends whereby it may be quickly and easily applied to the holder, and moreover is capable of being readily cleansed and kept in a pure and sanitary condition. The material forming the mop being stitched to the flexible casing, there is no chance for the lodgment of germs, dirt, or other matter, as is the case with the ordinary brush head form of mop, where the bristles or strands are secured in sockets upon the face of the holder.

Another feature of my invention consists in the provision of a mop holder of very simple and convenient form, the same comprising an elongated, preferably rectangular, metal frame, which, in the form selected for illustration, is made of heavy wire bent in the form of the letter U and having its free ends secured in holes drilled in a metal casting from which projects the socket to receive the handle of the mop. The frame portion of this holder slips easily within the flexible casing of the mop, and is secured thereto at one or both ends as desired by tapes or any other suitable means.

Other important features of my invention will be set forth more particularly in the following description and will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings in which similar numerals indicate similar parts throughout the several views thereof.

Figure 1 is a perspective view of the mop and mop holder assembled for use. Fig. 2 is a plan view of the mop and mop holder disassembled, but in position to be assembled, the casing of the mop being partly broken away to illustrate the stitching on the under side. Fig. 3 is a perspective view of a modification of the fastening means for securing the mop to the holder, and of the mop material.

The body of the mop may be of any suitable material as twisted cotton, cloth, sponge, etc., but preferably is composed of strands of twisted cotton. These strands, in my preferred construction, are stitched to the lower surface of a casing made of some flexible material, such as muslin, rubber cloth, or the like. It is preferable that this casing should be waterproof, as the same insures durability as well as cleanliness, and one or both ends of the casing are

open for the entrance of the holder. In the form shown in Figs. 1 and 2 of the drawing, the casing is provided with a series of longitudinal reinforcements in the form of tucks whereby additional strength and durability are attained, there being lines of stitching passing transversely of the casing on its lower surface to unite the mop material thereto. The casing is furthermore shown as provided with spaced eyelets at both ends thereof, the same being denoted by the character 5. These eyelets cooperate with tapes or other securing devices 6 which are stitched at suitable points near the end of the casing.

The mop holder comprises a rectangular frame made up of a U-shaped piece of metal 9 and a T-shaped casting 7 the latter having two parallel holes drilled at suitable points therein to receive the ends of the U-shaped piece 9, said ends being preferably secured therein by rivets. The casting 7 has a socket projecting therefrom, upwardly and rearwardly at a suitable angle to the general direction of the mop holder, wherein may be placed the ordinary staff or handle for manipulation.

To assemble the parts, the rectangular portion 9 of the mop holder is inserted in one of the openings at the end of the flexible casing 2 of the mop, as shown in Fig. 2. The tapes or other flexible fastenings 6 are then passed to the rear around the reduced portions 12 of the casting 7, thence through the holes 5 and are tied in a neat knot upon the upper surface of the casing. While I have shown the eyelets 5 and fastening devices 6 at both ends of the casing, it is obvious I may use these devices only at one end thereof.

In Fig. 3 I have shown a modification wherein the securing devices consist of two pairs of tapes or cords, a member of each pair being secured to the top and bottom, respectively, of the flexible casing. In this form, when the mop holder is inserted in the casing, the tapes are passed over the opposite ends of such holder and tied together, whereby the parts are firmly secured. In this form also it is obvious that the securing means at one end of the holder may be omitted, if so desired. In this modification also I show sponge as an alternative material for the mop.

It is obvious that other forms of securing devices may be employed than those shown, as for instance when tapes or their equivalent are employed, they may be arranged to pass around the sides of the casing, in lieu of around the ends thereof; or any other suitable means may be selected for fastening the parts of my mop together.

Having thus described one form of de-

vice in which my invention may be embodied, but without having attempted to set forth all of the forms in which the various parts thereof may be embodied, what I claim as new and desire to secure by Letters Patent, is:—

1. A mop comprising a flexible casing of elongated form having an end opening and a body of absorbent material secured to one side thereof only, in combination with an elongated frame constructed to fit said casing and provided with handle-receiving means at one extremity.

2. A mop comprising a flexible casing of elongated form having an end opening and a body of absorbent material fastened to one side only of said casing, in combination with an elongated frame constructed to fit said casing and presenting transverse end portions, and flexible securing strands fastened to said casing and extending beyond its ends said strands passing around said transverse end portions and secured together at their ends to restrain the casing and frame against relative longitudinal movement, and handle-receiving means at one extremity of said frame.

3. A mop comprising a flexible casing of elongated form having open ends, perforations near said ends and a body of absorbent material fastened to one side only of said casing, in combination with an elongated frame constructed to enter said casing and to present, at opposite extremities, transverse portions beyond the casing, and flexible securing strands fastened to said casing and extending beyond its ends, said strands passing around said transverse end portions and through said perforations and secured together at their ends to restrain the casing and frame against relative longitudinal movement, and handle-receiving means at one extremity of said frame.

4. In a device of the class described, the combination with a frame comprising an elongated U-shaped member and a T-shaped socket member provided with suitable apertures to receive the ends of the U-shaped member, of a flexible casing having an open end and arranged to fit upon said U-shaped member, flexible strands secured to said casing and extending beyond its end whereby to be passed around said T-shaped member to secure said casing and frame against relative longitudinal movement, and a body of absorbent mop material fastened to one side only of said casing.

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

HENRY ARTHUR HAYDEN.

Witnesses:

E. J. SIP,

BENJ. DECKER.