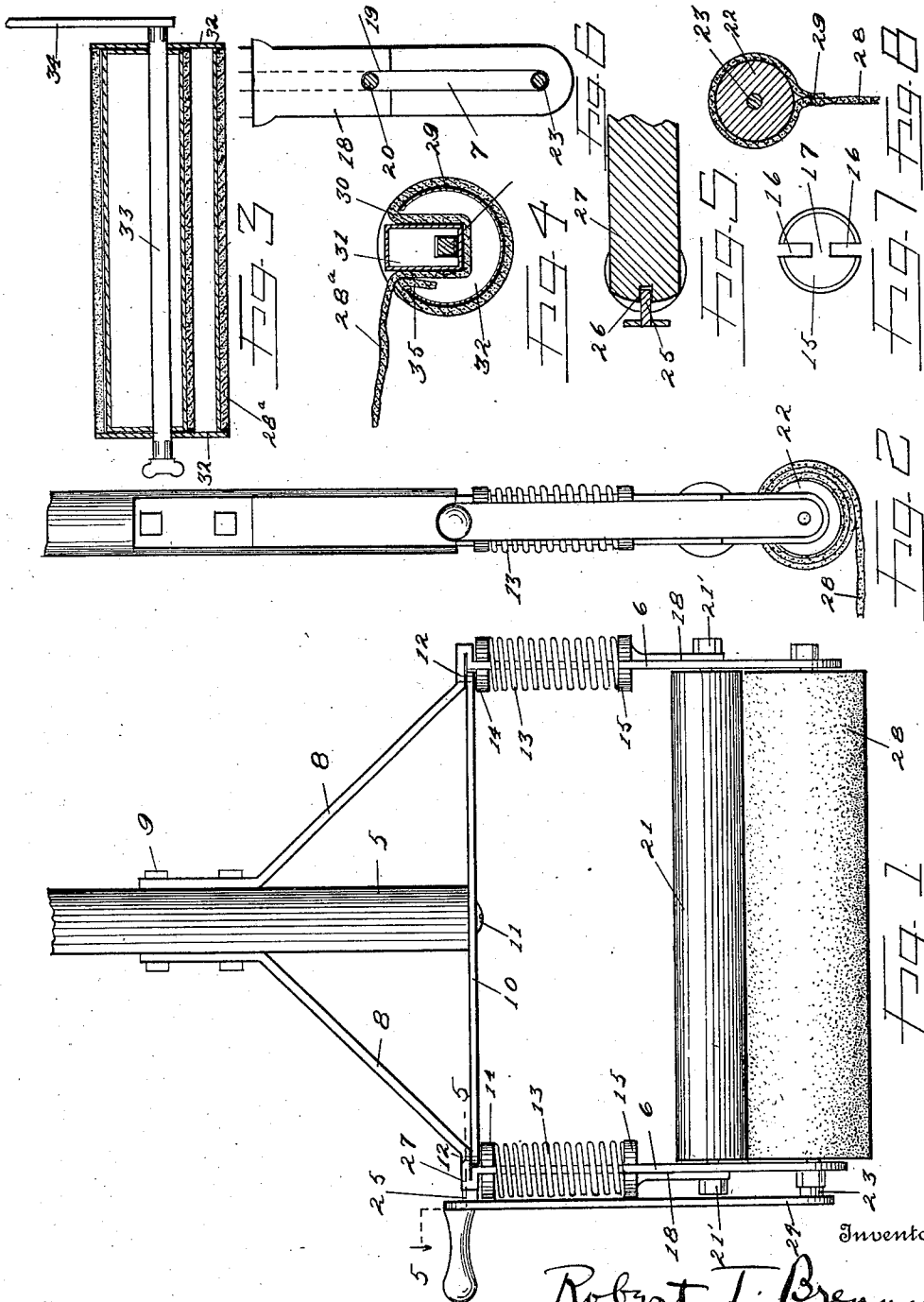


R. T. BRENNAN.
MOP HOLDER AND WRINGER.
APPLICATION FILED JULY 5, 1911.

1,011,109.

Patented Dec. 5, 1911.



Witnesses

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ROBERT T. BRENNAN, OF PORTLAND, OREGON.

MOP HOLDER AND WRINGER.

1,011,109.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT T. BRENNAN, a citizen of the United States of America, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Mop Holders and Wringers, of which the following is a specification.

This invention relates to a combined mop holder and wringer, the object of the invention being to provide a mop head having a pair of wringer rolls mounted directly therein, one of said rolls having a mop or cloth attached thereto in such manner that it can not be accidentally disengaged therefrom.

A further object of the invention is the provision of means for locking the operating handle of the wringer rolls against movement, to hold the mop in its proper position.

A further object of the invention is the provision of improved means for binding the cloth or mop into engagement with one of the rolls.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing, Figure 1 is a side elevation of a combined mop holder and wringer constructed in accordance with the invention, Fig. 2 is an end elevation thereof, Figs. 3 and 4 are respectively longitudinal and transverse sections of a modified form of roller, Fig. 5 is a detail sectional view upon line 5—5 of Fig. 1, Fig. 6 is a detail view of one of the side members of the mop head, Fig. 7 is a detail plan view of any one of the cup-like members between which the springs, hereinafter described, bear, and Fig. 8 is a transverse section of the lower roll shown in Figs. 1 and 2, illustrating the manner of attaching the cloth or mop thereto.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawing, the numeral 5 designates the mop handle. The mop head comprises side bars 6 having vertical slots 7 (see Fig. 6) formed therein. The side bars 6 are bent diagonally inward at 8 and are secured by bolts or other fastening devices 9 to the handle 5. A cross bar 10 is secured to the lower end of the handle 5 by a screw or like fastening device 11. The ends of the cross bar 10 are riveted or otherwise secured at 12 to the portions 8 of the

side bars. Springs 13 bear between cup-like members 14 and 15, see Figs. 1 and 7. Fig. 7 is a view illustrating the inner face of any one of these cup-like members and it will be seen that they comprise circular body portions having slots 16 formed therein for the reception of the side bars 6. Central web portions 17 of the members 14 and 15 travel in the slots 7. The lowermost cup-like members 15 are provided with downward extensions 18, the lower ends of which are slotted at 19 for the reception of the ends of the shaft 20 of an upper roller 21, this shaft likewise passing through the slot 7 and having nuts 21' threaded upon its outer ends. A lower roller 22 is journaled in the lower portions of the side bars, its shaft 23 passing through the slots 7. This shaft is provided with an operating handle 24. An inwardly extending lug 25 upon this handle is adapted to engage in a notch 26 (see Fig. 5) of a horizontal portion 27 of the mop head, whereby the handle may be locked in position after the roller has been turned to bring the mop or cloth to the proper position. As is best illustrated in Fig. 8, the inner end of the cloth 28 is permanently secured to the roller by being passed therearound and being then stitched at 29, so that the cloth cannot become accidentally disengaged from the roller or dropped upon the floor.

In Figs. 3 and 4 a modified form of roller with improved means for clamping the inner end of the cloth 28^a into permanent engagement therewith, has been illustrated. The roller 29 in this case is hollow and has an open side 30 into which a hollow binding block 31 may be pressed. This binding block fits snugly between end plates 32 of the roller and these end plates are provided with openings for the passage of a shaft 33 which corresponds in function to the shaft 23 and has a handle 34 secured thereto. The inner end of the cloth is first engaged over one of the edges of the roller at the open side thereof, as indicated at 35 in Fig. 4, and is then passed around said roller, after which the binding block is pressed down against said cloth to force a portion thereof into the interior of the roller. The shaft 33 is then placed in position, passing through the binding block and holding said binding block in position.

From the foregoing description it will be seen that simple and efficient means are here-

in provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is
5 to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claim.

10 Having described my invention, what I claim is:

In a device of the character described, the combination with a handle, a framework carried by said handle, said framework comprising vertically slotted side members, cup-
15 like members having web portions which

travel in the slots of the side members, springs bearing between said cup-like members, extensions carried by the lowermost of said cup-like members, a wringer roll upon
20 which the lowermost of said cup-like members bear, a second wringer roll mounted in the side members, a mop or cloth carried by said second roll, said first named roll bearing thereon, and means for rotating the
25 last named roll.

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

ROBERT T. BRENNAN.

Witnesses:

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