July 21, 1925. 1,546,699

C. T. ADAMS

MOP AND WRINGER

Filed Dec. 13, 1923

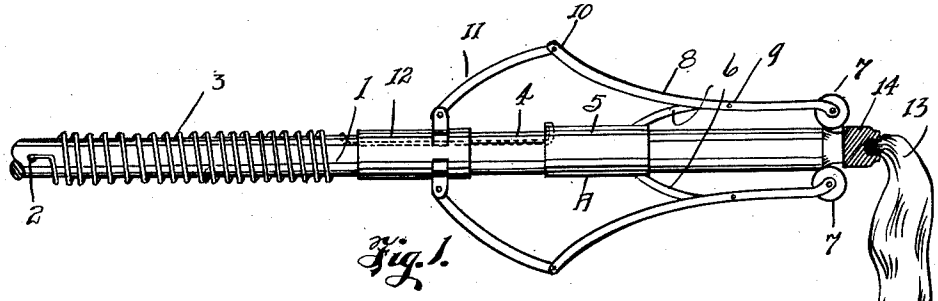

Fig. 1.

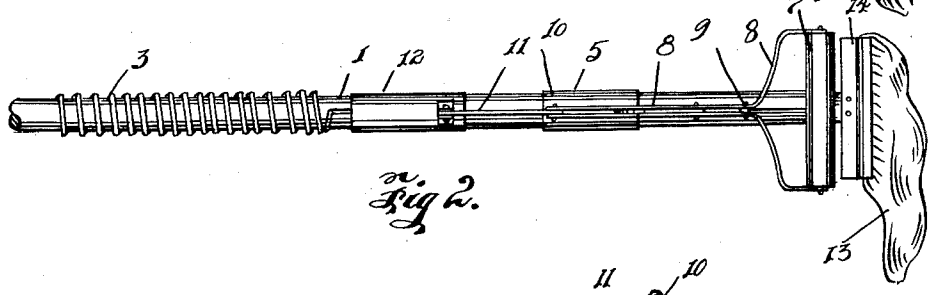

Fig 2.

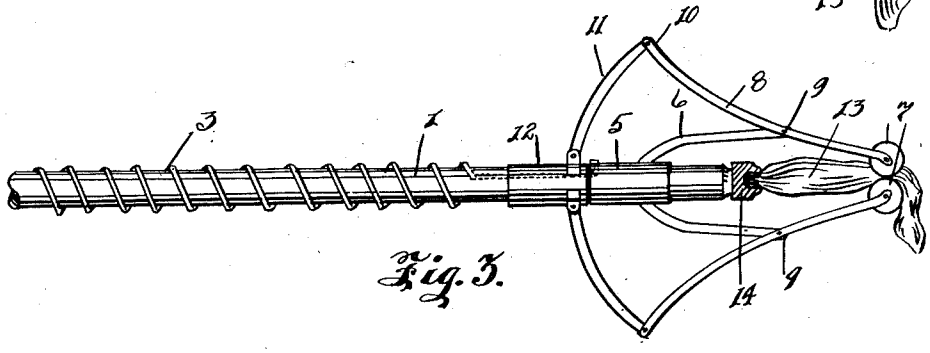

Fig. 3.

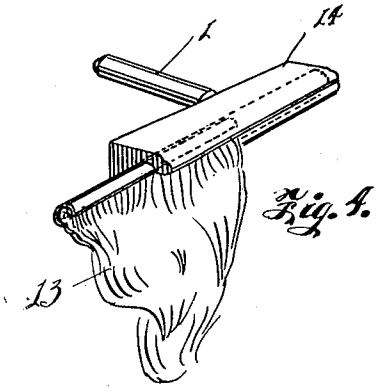

Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES T. ADAMS, OF DALLAS, TEXAS, ASSIGNOR OF ONE-HALF TO CLARENCE W. WHEELER, OF DALLAS, TEXAS.

MOP AND WRINGER.

Application filed December 13, 1923. Serial No. 680,337.

To all whom it may concern:

Be it known that I, CHARLES T. ADAMS, a citizen of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Mops and Wringers, of which the following is a specification.

This invention relates to mops and wringers and has for its object to provide a mop and wringer arranged and constructed in such a manner as to enable the mop to be wrung easily and quickly and to provide uniform and satisfactory results in its wringing arrangement.

Another object of the invention is to provide a mop and wringer, wherein the wringer in its forward or wringing operation will compress the mop firmly and when compression is completed will be automatically released from the mop.

A further object is to provide a mop and wringer in which the mop rollers are kept in alignment with the handle of the mop.

Other minor advantages of the invention will be clearly understood by reference to the following description taken in connection with the accompanying drawings and wherein:

Figure 1 is a side elevational view of the invention with the rollers in normal position.

Figure 2 is a view similar to Figure 1 but with the rollers shown at right angles to the mop handle.

Figure 3 is a view similar to Figure 1 but illustrating the rollers and arms in extended position and;

Figure 4 is a perspective view of a portion of the mop, illustrating its detachable feature.

Referring more in detail to the drawings, 1 denotes the mop handle around which is coiled a spring 3, secured at its outer end 2 to the handle. The inner portion of the spring as will be seen by dotted lines in Figure 1, is disposed in a slot in the mop handle and its end 4 fastened to a cuff 5 arranged to ride along the handle during the wringing operation.

Rigidly secured to the cuff 5 is a U-shaped guide 6 for the purpose of keeping the rollers in alignment with the mop and handle. These rollers 7—7 are supported by brackets which comprise arms 8 and are doubled in formation and pivoted at 9 to the U-shaped guide 6 about midway of their center and curved outwardly and have their inner ends 10 pivoted to short arms 11. The arms 11 are also pivoted to a second cuff 12 arranged to slide loosely on the handle 1. The cuff 5 is limited in its backward movement on the handle by a rivet located at a point A in the handle. The mop 13 is fastened to the handle by a slotted member 14 so that the mop may be replaced when outworn.

In operation, the cuff 12 is grasped by the hand and moved downward along the handle which will cause the arms 11 and 8 to spring outward. The spring 3 being secured to the cuff 5 will now pull against the arms 8 through the U-shaped member 6 and cause the rollers 7—7 to be pressed together on the mop. As illustrated in Figure 3, when the rollers have passed over the mop in the wringing operation and the cuff 12 released the rollers 7—7 will spring away from the mop.

It should be understood that modifications may be made in the arrangement and construction of the invention without departing from the spirit and intent and in keeping with the following claims:—

1. In a device of the kind set forth, a handle, a mop head detachably disposed upon one end thereof, a sleeve mounted on the handle, opposed arms pivoted to said sleeve and normally extending downwardly in substantial parallelism with said handle, a wringer roller carried by each of said arms, said rollers being adapted to engage the mop material, a second sleeve on said handle, one of said sleeves being slidable relatively to the other, links connecting said second sleeve and said arms, and means for returning said rollers to normal inoperative position.

2. In a device of the kind described, a handle, a mop head detachably disposed upon one end thereof, a sleeve mounted on the handle, opposed arms pivoted to said sleeve and normally extending downwardly in substantial parallelism with said handle, a wringer roller carried by each of said arms, said rollers being adapted to engage the mop material, a second sleeve on said handle, one of said sleeves being slidable relatively to the other, links connecting said second sleeve and said arms, and means for returning said rollers to normal inoperative position, said means comprising a spring secured by one

end to said handle and having its other end portion slidable in a slot in the handle and its extremity secured to said second sleeve.

3. A mop as set forth, comprising a handle with a mop head detachably disposed upon one end thereof, a pair of spaced sleeves on the handle, a pair of arms pivoted to opposite sides of one of said sleeves, a second pair of arms pivoted to said first pair, a wringer roller carried by each of said latter arms to engage the mop material; links connecting the lower of said sleeves to the longer of said arms; means for limiting the upward return movement of the lower of said arms and sleeve; and spring means on the handle connected to said lower sleeve to retract the sleeve to normal position.

In testimony whereof I have signed my name to this specification.

CHARLES T. ADAMS.