No. 685,275. Patented Oct. 29, 1901.

W. B. HADLEY.

MOP HOLDER.

(Application filed Jan. 8, 1901.)

(No Model.)

Fig. 1.

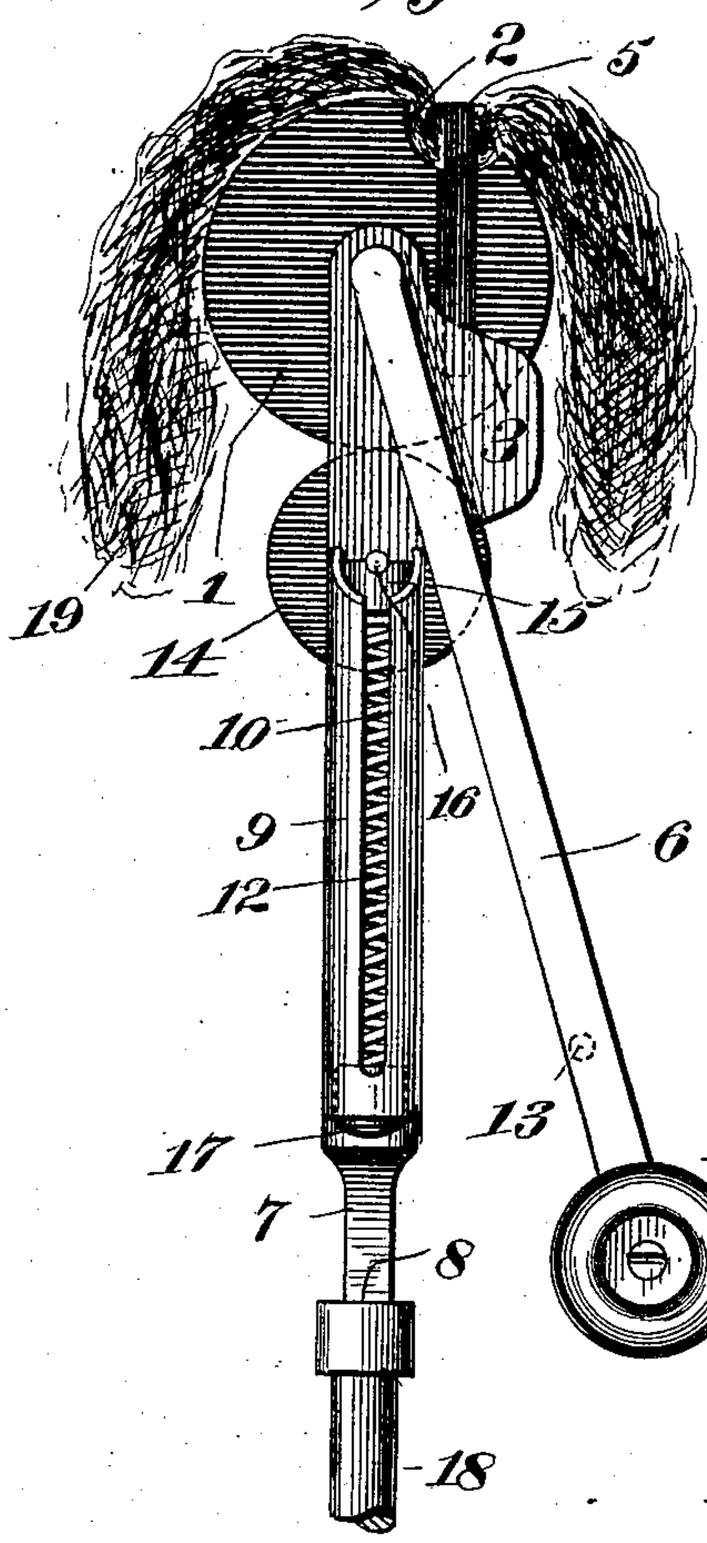
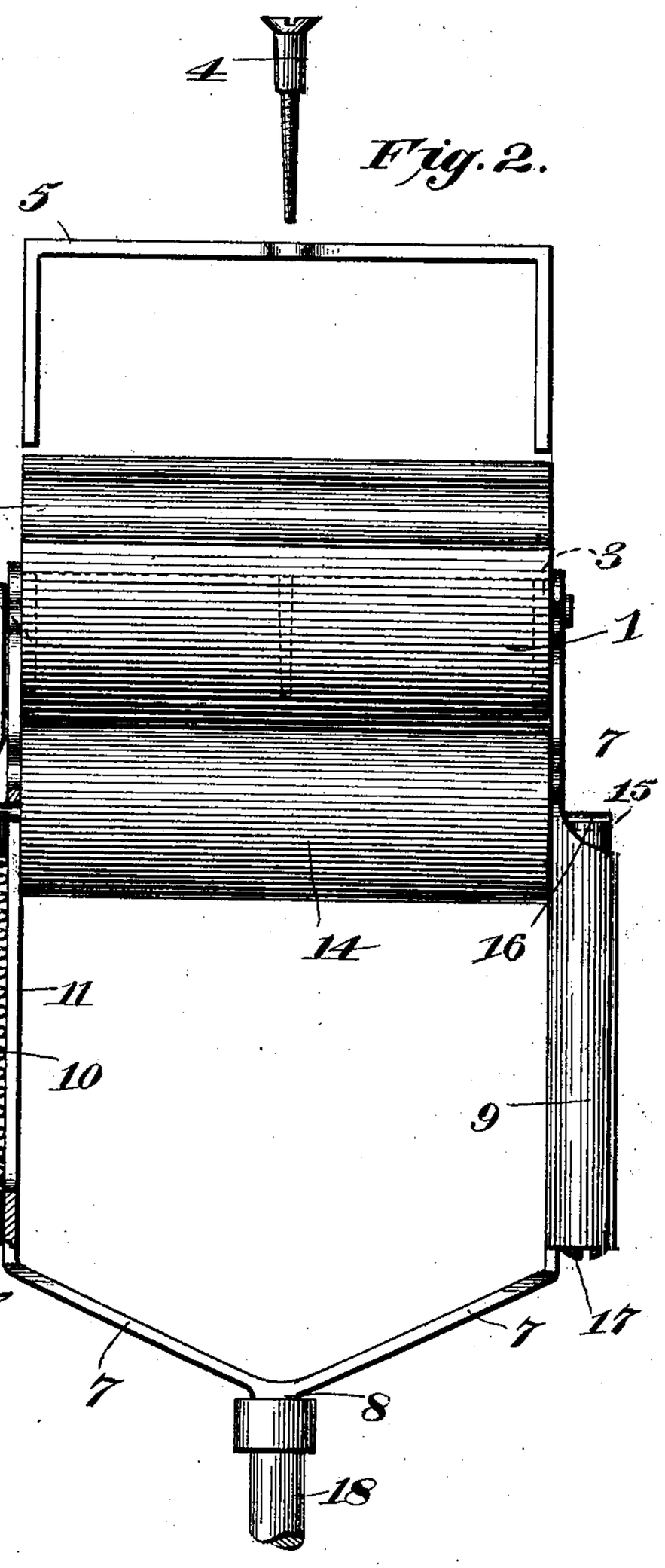


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

WALTER B. HADLEY, OF EAU CLAIRE, WISCONSIN, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO AMERICAN MOP COMPANY, A CORPORATION OF ILLINOIS.

MOP-HOLDER.

SPECIFICATION forming part of Letters Patent No. 685,275, dated October 29, 1901.

Application filed January 8, 1901. Serial No. 42,570. (No model.)

To all whom it may concern:

Be it known that I, WALTER B. HADLEY, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented certain new and useful Improvements in Mop-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in mop-holders, and more particularly to that form of mop-holder which is provided with a wringer which is intended to be substituted for the hands of the operator, who finds it necessary at numerous times during the process of mopping to stop and wring from the mop the dirty water and take a supply of clean water.

The invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of the invention with a mop attached. Fig. 2 represents a view in front elevation of the improved mop-holder, with the mop-securing parts shown detached and part of one of the spring-housings being broken away to more clearly disclose the construction of the various parts.

Referring to the drawings by numerals, 1 indicates a main roll provided with a groove, as 2, running longitudinally thereof, and end grooves, as 3 3, running partially through the roll at each end thereof and to one side of the center. A screw or other appropriate securing means, as 4, is provided for passing through the yoke-shaped bar 5 and into the roll 1 to hold said yoke within the groove 2 and grooves 3 3 for the purpose of tightly holding a mop between said yoke and main roll. A crank, as 6, is secured to the axis of the roll 1, the opposite ends of which axis find bearings in the ends of arms 7 7 of the handle 8. Each of the arms 7 is provided with a housing 9, which is primarily intended for inclosing a spring, as 10. Each of the said housings 9 is provided with a slot 11, and the housing 9 on the side of the device which carries the crank 6 is provided with a slot 12, which is adapted to receive a lug 13, which serves to lock the crank 6 and prevent the rotation of roll 1.

A spring-pressed roll, as 14, is provided in contact with roll 1 and is supported directly upon the head of said spring or in bearings formed in plugs 15 15 through the medium of its axis, as 16. Each of said plugs 15 is supported by a spring 10, said spring being supported by screws or other supporting means, as 17. Any suitable arm, as 18, may be secured in any appropriate manner to the handle 8.

In the operation of the invention a mop is placed across groove 2 and yoke 5 is brought against the same, the ends of said yoke being inserted in slots 3. Screw 4 is then inserted through the yoke and into roll 1 for tightly holding said yoke and mop, and the device is ready for operation. During the process of mopping the crank 6 is locked in position by means of lug 13 and slot 12, and when it is desired to wring the mop all that is necessary is to lift the said lug from its engagement with the slot by simply pulling the crank outward, said crank being slightly flexible, and rotate the said rolls by means of the crank until the desired result is obtained without touching the mop with the hands.

From the above description it will be seen that a mop may be easily and quickly wrung without the necessity of the manual effort required with an ordinary mop and mop-holder, and it will also be readily apparent that the present invention provides a simple, cheap, and durable structure which will not permit the mop to become loosened from the holder and the operation of which will be easily comprehended by any one.

Although I have described my invention in detail, I do not wish to be understood as limiting myself to the exact structure disclosed, but claim any and all changes in size, shape, and minor details of construction within the spirit and scope of my invention.

A further advantage will be seen in my construction in that I provide springs, as 10, for supporting the roll 14 by means of axis 16, which pass up and down in slots 11, and

also provide tension-screws below said springs, and thus allow for mops of various thicknesses passing between the two rolls or for any foreign matter which may be carried by the mop.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A mop-holder, comprising a handle, a yoke on said handle, a yielding and a non-yielding roller, both mounted in said yoke, means for forcing the said yielding roller along the said yoke against the other roller, one of said rolls being provided with means for securing a mop thereto, and means for rotating said mop-carrying roll for wringing said mop, substantially as described.

2. A mop-holder comprising a handle provided with a yoke at its end, the said yoke having closed bearings and elongated bearings, a non-yielding roller in said closed bearings, a yielding roller in said elongated bearings, means for securing a mop to the non-yielding roller, and a crank also attached thereto for rotating it, said crank carrying locking means, whereby said roller may be locked against rotation, substantially as described.

3. A mop-holder comprising a handle provided with a yoke at its end, two rolls journaled in said yoke, one of said rolls being provided with grooves for receiving a yoke-shaped bar for firmly securing a mop to said roll, a yoke-bar adapted to fit over a mop and within said grooves, means for securing the yoke-bar to the roll, and means for rotating the roll carrying the yoke-bar and mop, substantially as described.

4. A mop-holder comprising a handle provided with a yoke having both closed bearings and elongated slot-bearings, a yielding roll and a non-yielding roll engaging said bearings, means carried by one roll for securing a mop thereto, means for rotating said roll, and means on said yoke for forcing the yielding roll along said elongated slot-bearings for bringing it in yielding contact with said mop-carrying roll, substantially as described.

5. A mop-holder comprising a handle having a yoke at its end, two rolls carried by said yoke, the axis of the outer roll finding bearings in the ends of said yoke, and the axis of the inner roll being supported by springs carried by said yoke, one at each end of said roll, housings about said springs formed with slots to permit said last-mentioned roll to be pressed yieldingly against said outer roll, means carried by said outer roll for securing a mop thereto, a crank secured to the axis of said outer roll, a lug or detent carried by said crank and adapted to engage a slot in one of the spring-housings, whereby said crank and outer roll may be locked against rotation during the process of mopping, and tension-screws inserted in the lower ends of said housings and bearing against the feet of said springs, substantially as described.

6. A mop-holder, comprising a handle having a yoke, a non-yielding and a yielding roll mounted in said yoke, widened portions on the ends of the yoke adapted to direct a mop between the rolls, means for turning the non-yielding roll whereby the mop will be wrung between said rollers, and means for forcing the yielding roll along the yoke against the other roll, substantially as described.

7. A mop-holder, comprising a handle having a yoke which receives and holds in position rollers, a mop-roller and a pressure-roller mounted between the arms of said yoke, the said arms having elongated slots to engage and guide the trunnions of the pressure-roller, hollow casings formed on the said arms, springs in said casings for forcing the pressure-roller against the mop-holder, one of said casings having a slot in its outer side, and a crank-handle for turning the mop-roller and carrying a lug or detent, adapted to be sprung into the said casing-slot for holding the crank-handle stationary when not in use, substantially as described.

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

WALTER B. HADLEY.

Witnesses:
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