

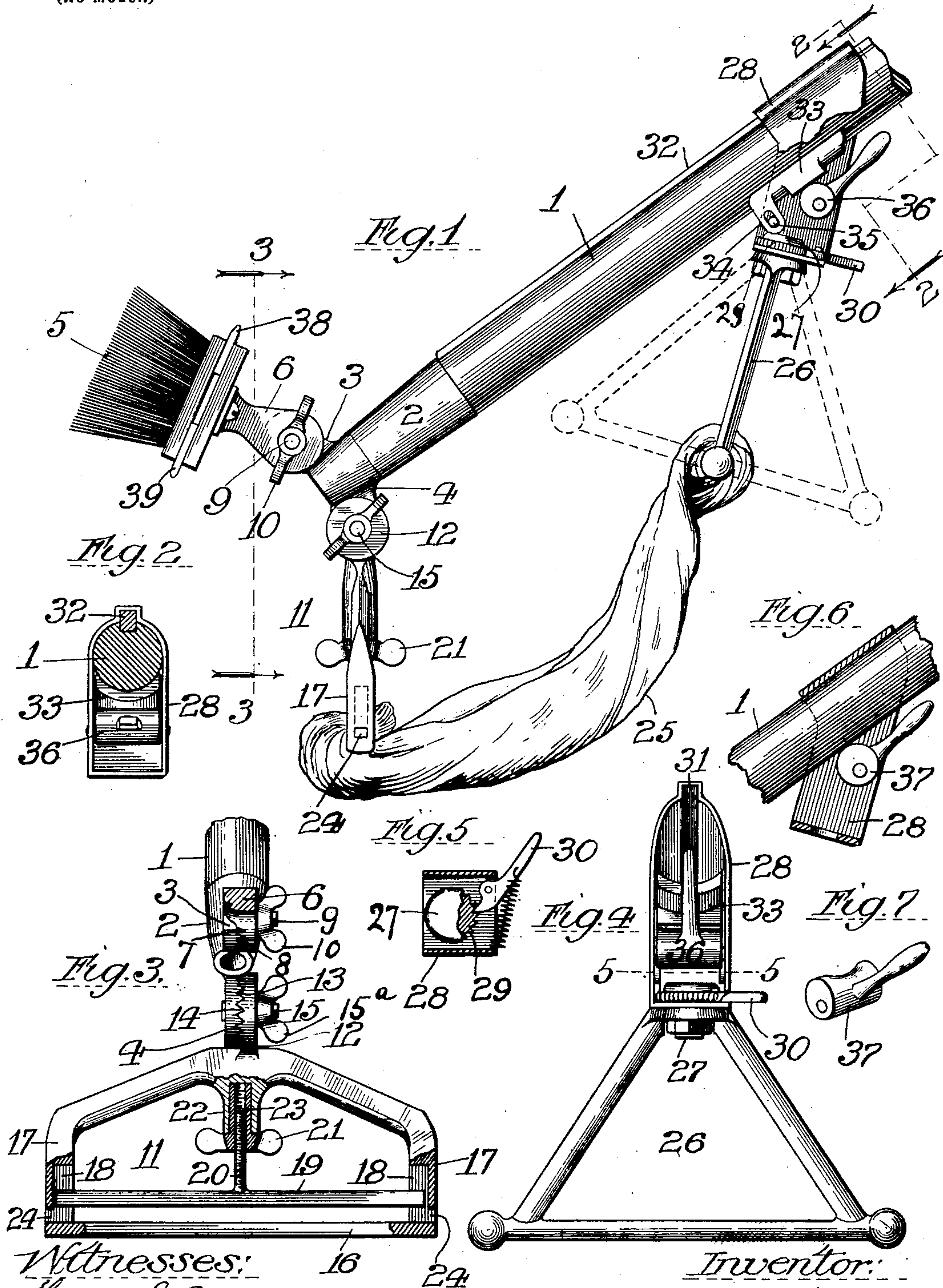
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Patented June 17, 1902.

C. J. HUNT.  
COMBINED SCRUBBER AND MOP.

(Application filed Mar. 1, 1901.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## COMBINED SCRUBBER AND MOP.

SPECIFICATION forming part of Letters Patent No. 702,875, dated June 17, 1902.

Application filed March 1, 1901. Serial No. 49,528. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES J. HUNT, a citizen of the United States, residing at Dayton, Montgomery county, Ohio, have invented certain new and useful Improvements in a Combined Scrubber and Mop, of which the following is a specification.

My invention has relation to that class of cleaning devices known as "scrubbers" and "mops;" and its general object is to improve the construction and utility of devices of this character, as well as to provide for their more convenient operation and manipulation.

In the drawings, Figure 1 is a side elevation of my combined scrubber and mop; Fig. 2, an enlarged sectional elevation on line 2 of Fig. 1; Fig. 3, a sectional elevation on line 3 of Fig. 1 with portions of the spindle 17 broken away and the mop removed; Fig. 4, a rear elevation of one of the mop-holders; Fig. 5, a sectional plan on line 5 of Fig. 4, and Figs. 6 and 7 detail views of a modified form of clamping device for one of the mop-holders.

The usual handle 1 has at its lower end a ferrule or head 2, having a socket, in which the handle is secured in any suitable manner. This head has two oppositely-arranged lugs 3 and 4, to which a brush and mop are adjustably attached. As a convenient construction for the purpose of obtaining this adjustable connection the brush 5 has secured to its back a projecting plate 6, corresponding to the lug 3, both the lug and plate being provided on their meeting faces with corrugations or teeth 7 and 8, respectively. A short bolt 9, having a thumb-nut 10, serves to hold the brush in different adjusted positions with respect to the handle and the lug 3.

The lower mop frame or holder 11 has a projecting plate or lug 12, provided with corrugations or teeth 13, to engage similar corrugations or teeth 14 on the lug 4, and also provided with a short bolt 15, similar to bolt 9, and a thumb-nut 15<sup>a</sup>, for holding the mop in desired adjusted position. The mop-frame 11 has a straight end piece 16 and side pieces or bars 17. Each side piece has a groove or recess 18, in which is adapted to slide the ends of a follower or movable cross-bar 19, having a centrally-projecting screw-threaded

stem 20, which is received by the thumb-nut 21 and by the tubular extension 22 of the mop-frame. The thumb-nut 21 has a shank 23, receiving the stem 20 and being itself received by the tubular extension 22. The side pieces 17 have lateral openings 24, whereby after the thumb-nut has been screwed down sufficiently on the stem 20, so that its shank will clear the tubular extension, either end of the cross-bar may be moved slightly laterally through one of said openings in order that the opposite end will clear its side piece, thus allowing the entire cross-bar to be removed from the mop-holder frame. The mop 25 is designed to be securely held between the end piece 16 and the cross-bar 19, as shown in Fig. 1, the screwing of the thumb-nut toward the end of the stem 20 forcing the cross-bar downward upon the mop.

The above construction is both simple and efficient and provides for ready assembling and taking apart.

The mop is also secured to a supplemental mop-holder, which is movable longitudinally of the handle and is capable of rotation, so that the mop can be twisted, and thereby wrung out. This mop-holder consists of a mop-holder frame 26, which by means of a short bolt 27 is rotatably secured to what may be termed a "sleeve" 28, which is adapted to be moved longitudinally on the handle and to be clamped thereon in desired positions. The head of the bolt 27 has ratchet-teeth 29, engaged by a spring-pressed pawl 30, pivoted on such sleeve, whereby the mop-holder proper, 26, can be prevented from turning back after the mop has been twisted. The sleeve 28 has an interior groove 31, which receives a feather or spline 32, let in or otherwise provided in the handle 1, the object of this construction being to prevent rotation of the sleeve with respect to the handle. This construction is the preferable one, but is not absolutely essential. The sleeve is preferably adapted to be clamped to the handle in adjusted positions, and in the drawings I have illustrated two methods of accomplishing this result. In the form shown in Fig 1 a clamping-plate 33, curved to fit the handle, has a slotted projection 34, that engages a stud 35, 100



arranged on an interior wall of the sleeve. A cam or eccentric 36, pivoted in the sleeve, bears against the plate and is adapted to force such plate against the handle or to relieve it therefrom. In the modification of the clamp as illustrated in Figs. 6 and 7 an eccentric or cam 37, pivoted in the sleeve, has a curved face, so as to fit the handle. In this construction the clamping-plate is dispensed with and the clamping is done directly by the cam itself.

If desired, the scrubbing-brush may be provided along one edge of its back with a flexible strip 38, forming a squeegee, and on its opposite edge with a plate 39, forming a scraper, so that my device in its complete form, as herein illustrated, is, in fact, a combined scrubber, mop, wringer, drier, and scraper.

The operation of my device will be apparent from the description above given. When it is desired to wring out the mop, the movable mop-holder is drawn upward on the handle to the proper distance, and such holder is thereupon clamped to the handle by means of the cam. The rotatable holder-frame 26 is thereupon turned by hand, so as to twist the mop, thereby wringing out the water from the mop. The movable mop-holder can be then released, when the mop is again ready for mopping purposes. By means of the adjustable connections the lower mop-holder can be adjusted to any desired angle or position with respect to the handle, and the same is true as to the brush.

While I have herein shown a combined scrubber and mop, it will be understood that the combination of these devices in one article of manufacture is preferable, but that the mop and scrubber may be used on different handles and independently of each other—that is to say, that so far as my invention on the mop feature is concerned, such mop may be used separately from the scrubber and the scrubber separately from the mop.

Although I have shown and described more or less precise forms and details of construction, I do not intend to be understood as limiting myself thereto, as I contemplate changes in form, proportion of parts, and the substitution of equivalents as circumstances may require or render expedient without departing from the spirit of my invention.

Having thus fully described my invention, I claim—

1. In a mop, the combination with the handle, of a mop-holder secured to the handle and comprising a frame with interior guides, a cross-bar reciprocable in said frame with its ends in such guides, and a nut anchored in the frame and cooperating with said cross-bar for reciprocating the latter, substantially as described.

2. In a mop, the combination of a handle, of a mop-holder secured thereto, a second mop-holder movable longitudinally on the

handle and having a rotatable mop-holding frame extending at an angle thereto, and means for preventing back rotation of said frame, substantially as described.

3. In a mop, the combination of a handle, a mop-holder at one end thereof, a second mop-holder comprising a sleeve movable longitudinally of the handle, means for preventing rotary movement of the sleeve on the handle, and a mop-holding frame rotatably mounted on the sleeve and extending at an angle to the said sleeve and handle but at all times above the first-named mop-holder, and means for clamping said sleeve at different adjusted positions on the handle; substantially as described.

4. In a mop, the combination of a handle, a mop-holder secured to one end thereof, a second mop-holder comprising a sleeve portion around the handle and a frame portion rotatably mounted on the sleeve, and a pawl-and-ratchet connection between said sleeve and rotatable frame; substantially as described.

5. In a mop, the combination with a handle, of a mop-holder secured thereto, a second mop-holder comprising a sleeve portion engaging the handle, but movable only longitudinally thereon and a frame portion, rotatably mounted on such sleeve and having a movement independent of such sleeve, and means for preventing the back movement of the frame, substantially as described.

6. In a mop, the combination with a handle, of a mop-holder secured thereto, a second mop-holder comprising a sleeve movable longitudinally of the handle, means for preventing rotary movement of the sleeve on the handle and a frame portion rotatable on such sleeve, and a mop secured to such holders, the first-named mop-holder being normally unmovable and the second mop-holder being movable or rotatable for wringing the mop, and means for preventing backward turning of said holder in the wringing of the mop.

7. In a mop, the combination of a handle, a mop-holder secured to one end thereof, a second mop-holder comprising a sleeve portion around the handle and a frame portion rotatably mounted on the sleeve, a pawl-and-ratchet connection between the sleeve and said frame, and a clamp in such sleeve for clamping the sleeve to the handle in adjusted positions; substantially as described.

8. In a mop, the combination of a handle, a mop-holder secured to one end thereof, a second mop-holder movable longitudinally on the handle, means for preventing rotation of such second holder on the handle and means for clamping the same onto the handle in different adjusted positions; substantially as described.

9. In a mop, the combination of a handle, a mop-holder secured to one end thereof, a second mop-holder comprising a sleeve portion around the handle and a holder proper



rotatably secured to the sleeve, a spline on the handle, said sleeve having a groove to receive the spline, and an eccentric pivoted within the sleeve and adapted to clamp the sleeve upon the handle; substantially as described.

10. In a mop, the combination of a handle, a mop-holder secured to one end thereof, a second mop-holder comprising a sleeve portion around the handle and a holder proper rotatably secured to the sleeve, a clamping-plate loosely connected to the sleeve and adapted to fit the handle, and a cam pivoted in the sleeve and adapted to bear against the clamping-plate; substantially as described.

11. In a mop, the combination, with the handle, of a mop-holder secured to the handle and comprising a frame having an end bar and side bars provided with interior guides, a cross-bar reciprocating in such frame with its ends in said guides and having a screw-threaded stem and a nut engaging said stem, said frame having a tubular

extension to receive such stem; substantially as described.

12. In a mop, the combination, with the handle, of a mop-holder secured to the handle and comprising a frame having an end bar and side bars provided with lateral openings and interior guides, a cross-bar reciprocating in such frame with its ends in said guides and having a screw-threaded stem, and a nut having a shank, said frame having a tubular extension to receive said stem and shank, whereby a mop can be held between said end bar and cross-bar and whereby upon screwing said nut upon the stem and moving the cross-bar slightly laterally through one of such openings, the cross-bar can be removed from the holder; substantially as described.

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