Dec. 29, 1925 1,567,519

E. LECLERC ET AL

MOP WRINGER

Filed Jan. 22, 1925

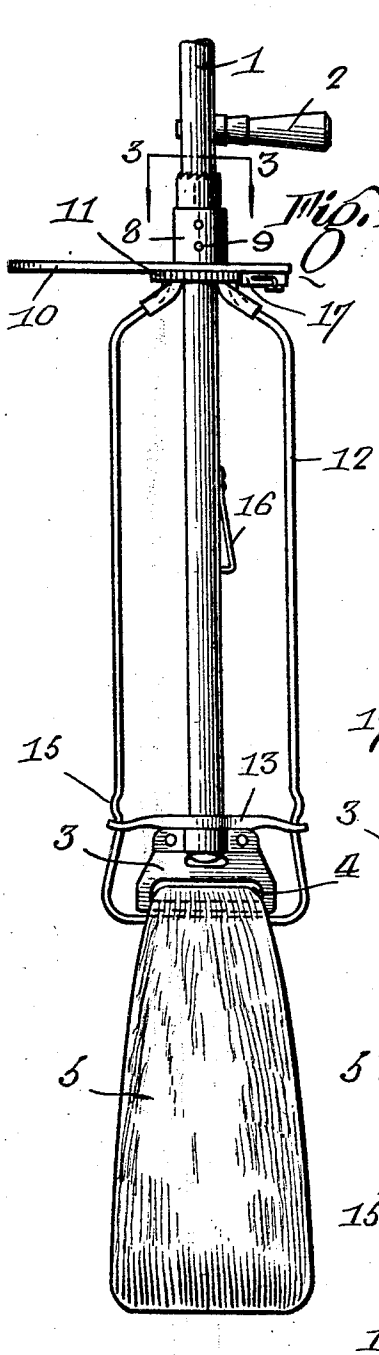



Fig. 1

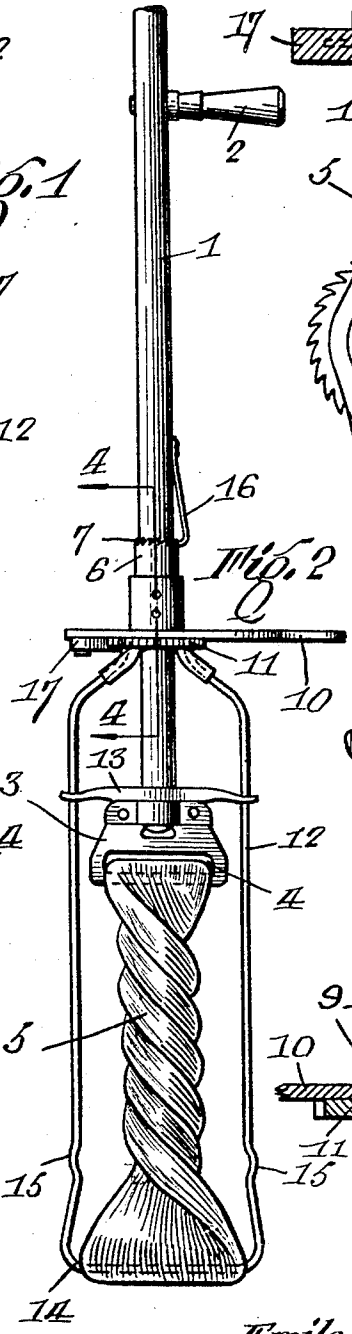



Fig. 2

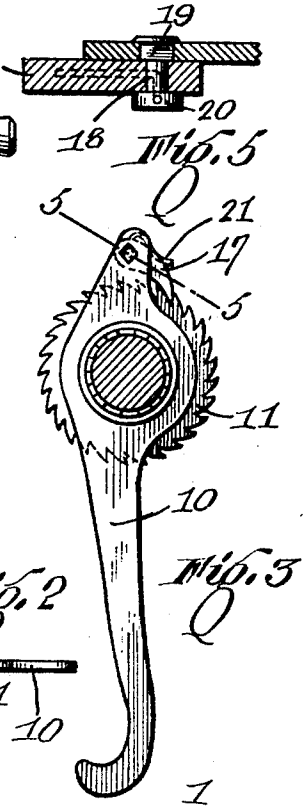



Fig. 3

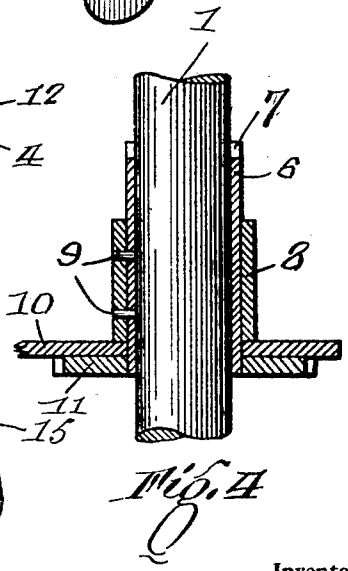



Fig. 4

Inventors

Emile Leclerc

Joseph Bibaud

By William Clinton

Attorney

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# UNITED STATES PATENT OFFICE.

EMILE LECLERC AND JOSEPH BIBAUD, OF ST. HYACINTHE, QUEBEC, CANADA.

## MOP WRINGER.

Application filed January 22, 1925. Serial No. 4,063.

*To all whom it may concern:*

Be it known that we, EMILE LECLERC and JOSEPH BIBAUD, subjects of the King of Great Britain, and residing at St. Hyacinthe, Province of Quebec, Canada, have invented certain new and useful Improvements in Mop Wringers; and we do hereby declare that the following is 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.

The present invention pertains to a novel attachment for mop wringers adapted for application to and used in connection with household mops.

The principal object of the invention is the provision of a device of this character which is simple in construction and effective in its operation. To this end there is provided a frame slidable upon the mop handle and having a part thereof disposed between the two laps of the fibrous part of the mop. When the mop is to be wrung, the frame is lowered so that its end lies at the lower end of the fibrous part. By use of a suitable turning means, including a relatively long lever, the entire frame is rotated whereby the mop is effectively wrung.

The invention is fully disclosed in the following description and in the accompanying drawings in which:

Figure 1 is an elevation of the device in inoperative position;

Figure 2 is a similar view of the device in operative position;

Figure 3 is a section on the line 3—3 of Figure 1;

Figure 4 is a section on the line 4—4 of Figure 2; and,

Figure 5 is a section on the line 5—5 of Figure 3.

Reference to these views will now be made by means of like characters which are employed to designate corresponding parts throughout.

In Figure 1 is shown a mop handle 1 of usual construction, being provided, however, intermediate its ends with a grip 2, the purpose of which will presently appear. To the lower end of the handle is fixed a mop head 3, which is a substantially flat member having a straight transverse slot 4. Through the slot is passed the fibrous portion 5 of the mop which consists of two laps, one on each side of the plane of the head.

On the handle 1 is slidably mounted a sleeve 6 having a plurality of notches 7 cut in its upper end. The sleeve is surrounded by a collar 8 secured thereto by means of pins 9. Beneath the collar, and also surrounding the sleeve, is provided a rotatable lever 10 extending a considerable distance outwardly from the handle 1. To the lower surface of the lever is secured a ratchet wheel 11 also surrounding the sleeve 6 and rotatable with respect to the handle 1. A substantially rectangular frame 12 depends from the ratchet and has its sides disposed at opposite sides of the handle 1 and head 3. A double armed member 13 surrounds the handle 1 just above the head and is rotatable with respect to these members. The extremities of the member 13 receive the sides of the frame 12, as indicated in Figures 1 and 2. The lower end member 14 of the frame is disposed between the laps of the fibrous portion 5 of the mop. The sides of the frame are formed near their lower ends with bends 15 which, when disposed over the member 13, prevent the frame from dropping and hold it in the position shown in Figure 1. A wire spring 16 is secured to the handle 1 and is adapted to slide into it in order to permit the sleeve to pass from the position shown in Figure 1 to that shown in Figure 2. In the latter position, the spring again projects outwardly and holds the sleeve 6 and its associated parts in the lower position.

The short side of the lever 10 has pivotally connected thereto a pawl 17 adapted to engage the teeth of the ratchet wheel 11. The pawl is secured by means of a pin 18 having a square head 19 received in the lever and its opposite end formed with a rounded head 20. The pawl 17 is disposed between the heads 19 and 20, as clearly illustrated in Figure 5. A spring 21 having an end secured to the round head 20 bears against the pawl 17 and holds it in engagement with the wheel.

In the normal use of the device, the frame and associated parts are raised as in Figure 1 and held in this position by reason of the bends 15 resting upon the arm member 13. The bends are so made that they cannot pass through the apertured ends of the arm unless pushed therethrough by force. When the mop is to be wrung, the frame is pushed downwardly until the sleeve is disposed beneath the spring 16. Then, as shown in Figure 2, the spring 16 holds the frame and

associated parts in lowered position. During this movement, the lower end member of the frame 12 passes downwardly between the laps of the fibrous portion 5 until reaching the lower end thereof. The grip 2 is now taken in one hand and the lever 10 in the other, and the latter is turned. By reason of the engagement of the pawl 17 in the ratchet wheel 11, the latter rotates and carries with it the frame 12. The head 3, however, is fixed to the mop handle 1, as a result of which rotation of the frame twists and wrings the fibrous portion 5. It is immaterial whether the parts 6 and 8 are constructed to rotate with the lever, but if so, the teeth 7 should be adapted to pass along the lower end of the spring 16.

While a specific embodiment of the invention has been illustrated and described, it is to be understood that various alterations in the details of construction may be made without departing from the spirit of the invention as indicated by the appended claim.

Having thus fully described the invention, what we claim as new and desire to protect by Letters Patent is:—

A mop wringer comprising in combination with a mop handle and a two-lap fibrous portion carried at one end thereof, a frame slidably mounted on the handle and having a portion thereof disposed between the laps of the fibrous portion, a ratchet wheel rotatably surrounding the handle and secured to said frame, a lever rotatably surrounding the handle, and a pawl carried by the lever and adapted to engage said ratchet wheel.

In witness whereof we have hereunto set our hands.

EMILE LECLERC.
JOSEPH BIBAUD.