No. 704,132. Patented July 8, 1902.

A. W. SMITH.

MOP HOLDER AND WRINGER.

(Application filed Apr. 29, 1902.)

(No Model.)

Fig. 1.

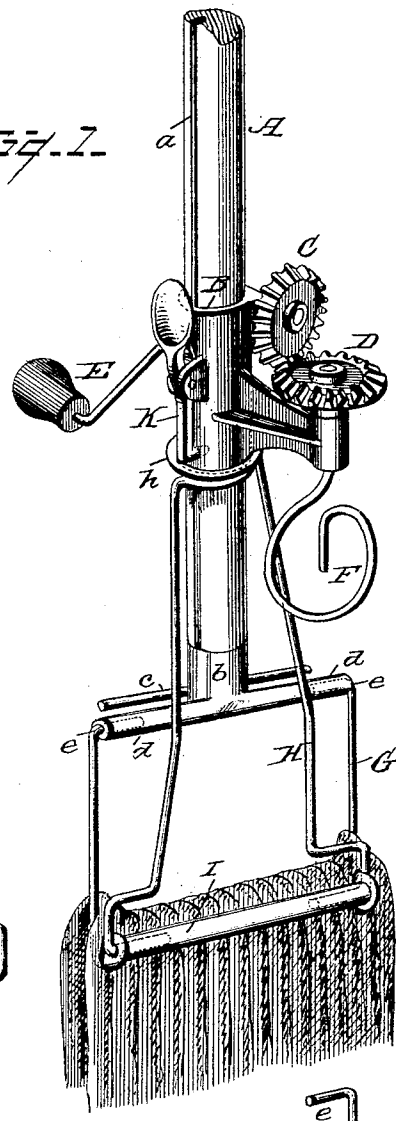


Fig. 2.

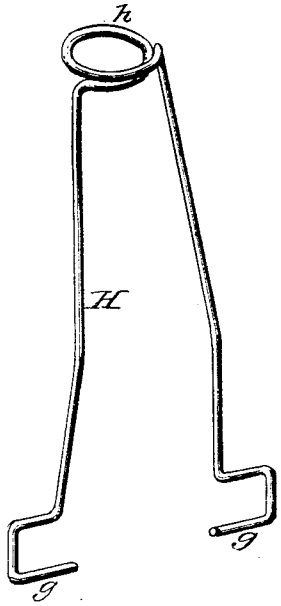


Fig. 4.

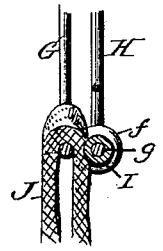
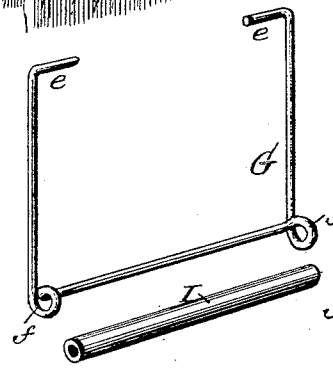


Fig. 3.



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UNITED STATES PATENT OFFICE.

ARTHUR W. SMITH, OF NEW YORK, N. Y.

MOP HOLDER AND WRINGER.

SPECIFICATION forming part of Letters Patent No. 704,132, dated July 8, 1902.

Application filed April 29, 1902. Serial No. 105,176. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR W. SMITH, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Mop Holders and Wringers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to that class of mop-heads or devices for holding the mop to the handle in which the two clamping-jaws are constructed of wire; and the object thereof is to provide a device of this character that will be simple in construction, possess the required strength and durability, and effective in securely holding the mop between the jaws of the clamps; and the invention consists in a mop-holder constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a perspective view showing the mop and mop-holder and also the mop-wringer connected to the handle; Fig. 2, a perspective view of one of the clamping-jaws; Fig. 3, a similar view of the opposite clamping-jaw and the bearing-roller; Fig. 4, a detail sectional view showing the lower ends of the two clamping-jaws, the bearing-roller, and the mop.

In the accompanying drawings I have shown in connection with the mop-holder a device for wringing the mop, the handle A of the mop having a longitudinal groove *a*, with which engages a spring-actuated latch of any suitable construction to prevent the sleeve B of the wringer from turning upon the handle, but allowed to slide longitudinally thereon to bring the wringer in or out of working position. The sleeve B carries two bevel gear-wheels C D, which mesh with each other and are operated by a suitable handle E, connecting with the gear-wheel C. The bevel gear-wheel D carries a depending hook F for engaging the end of the mop when it is desired to wring the mop by twisting it. The mop-holder comprises two clamping-jaws G H, pivotally connected together at their lower ends, the jaw G being shown in detail in Fig. 3 of the drawings and a similar view of the jaw H being shown in Fig. 2 of the drawings.

The handle A is connected to a socket-head *b*, which has a rod *c* to facilitate attaching a scrubbing-brush thereto when so desired, the socket-head also having laterally-extending tubular arms *d* for pivotally connecting thereto the inwardly-extending ends *e* of the jaw G. A pivotal connection is thereby made between the arms *d* and the jaw G, and as both jaws are constructed of spring-wire the ends *e* may be sprung out from engagement with the tubular arms when it is desired to remove the mop-holder from the handle. The jaw G has eyes *f* at its lower end, which form bearings for the ends *g* of the clamping-jaw H, the ends extending through the eyes and engage with the ends of a tubular bearing-roller I, thereby providing a hinged connection between the two jaws to elevate or raise the mop to a position to be caught by the wringer.

When the wringer is not in position for use, the sleeve B bears down upon the loop *h* of the jaw H to hold the jaw from sliding up on the handle, and the sleeve is locked in position by the spring-actuated latch K engaging a socket in the groove *a*, as shown in dotted lines of Fig. 1 of the drawings.

The two jaws G H being both hinged and pivoted enables them to be raised to bring the mop in position to be operated upon by the wringer. The jaw G is pivoted to the tubular arms *d* and hinged to the jaw H, and said jaw is slidable upon the handle A, and when it is desired to bring the mop in position to be operated upon by the wringer the spring-actuated latch K is released from the socket in the groove of the handle A and the sleeve B raised up on the handle the required height, the latch engaging the groove preventing the sleeve from rotating.

After the wringer has been adjusted with relation to its height and made fast by the latch engaging a socket in the groove the jaws are raised and with the jaws the mop, both of which will now be above the lower end of the handle and the mop in position to be caught by the wringer, and by turning the handle of the wringer the mop will be twisted and wrung.

In connection with my improved mop-

holder any suitable wringing device may be employed; but it is essential that such a device should be slidable upon the handle of the mop and provided with means for holding the wringing device in its adjusted position either to operate upon the mop or hold the slidable clamping-jaw of the mop-holder from sliding upon the handle.

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

1. A mop-holder comprising two clamping-jaws hinged together at their lower ends, one of said jaws being pivotally connected with the handle and the opposite jaw adapted to slide on said handle, whereby the two jaws with the mop may be elevated, substantially as and for the purpose set forth.

2. A mop-holder consisting of a suitable handle having laterally-extending tubular arms, a clamping-jaw having inwardly-extending ends to engage with the tubular arms and bearing-eyes at its lower end, a second clamping-jaw having a loop at its upper end through which the handle extends, and at its lower end having inwardly-extending ends to engage the bearing-eyes, and a tubular bearing-roller located between the eyes, substantially as and for the purpose specified.

3. In a mop-holder, the combination with a suitable slidable wringing device provided with means for holding it in operative position, of two clamping-jaws hinged together at their lower ends and one of the jaws being pivotally connected with the handle and the opposite jaw having a loop at its upper end through which the handle extends and adapted to slide upon the handle, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ARTHUR W. SMITH.

Witnesses:
DAVID DURIE, Jr.,
JOSEPH WILLS.