(No Model.)

W. H. MILLER.

MOP.

No. 411,822. Patented Oct. 1, 1889.

Fig. 1.

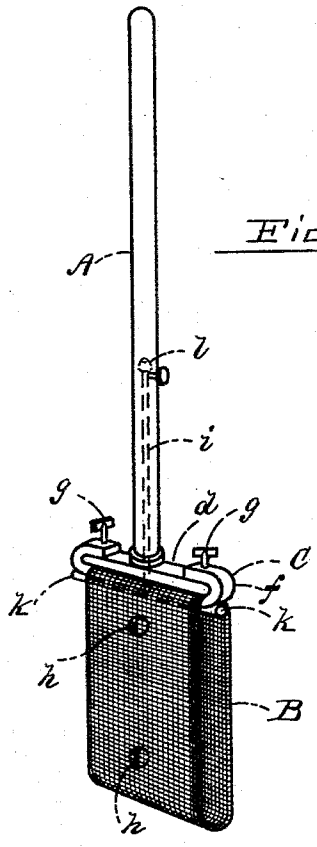


Fig. 2.

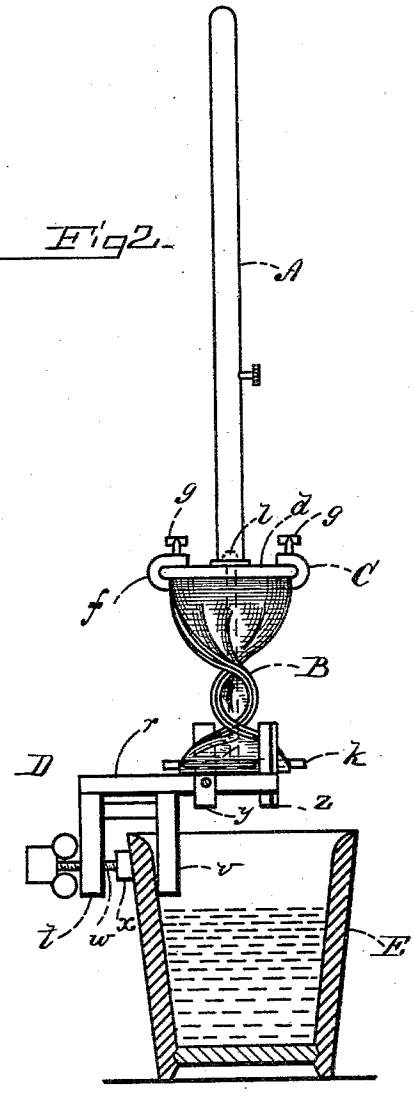
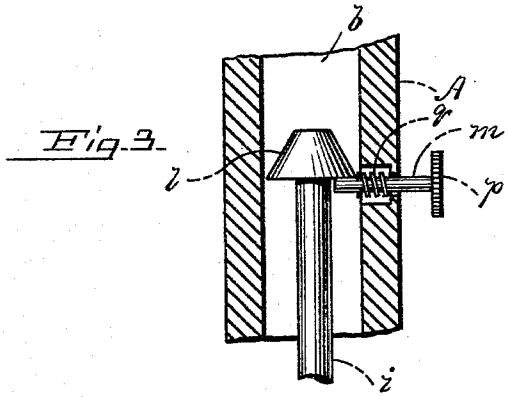


Fig. 3.



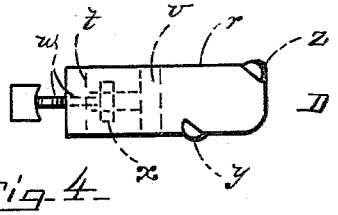


Fig. 4.

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WILLIAM H. MILLER, OF CHELSEA, MASSACHUSETTS.

MOP.

SPECIFICATION forming part of Letters Patent No. 411,822, dated October 1, 1889.

Application filed April 22, 1889. Serial No. 308,068. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MILLER, of Chelsea, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Mops, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of my improved mop; Fig. 2, a like view representing the mop in use with the wringer, and Figs. 3 and 4 views illustrating details of construction.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to floor-mops; and it consists in certain novel features, as hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the handle, and B the mop-cloth. The lower end of the handle is provided centrally with a vertical chamber or socket *b*, as shown in Fig. 3. The mop-cloth is constructed in the form of a cylinder, and is secured to the handle by a clamp C. The clamp consists of a bar *d*, secured to the handle at its lower end, and a plate *f*, the ends of which overlap the ends of bar *d*, to which they are secured by thumb-screws *g*. The mop-cloth is provided centrally with a series of holes *h*. A rod *i* is fitted to slide in the chamber *b* of the handle, said rod extending through the clamp C and provided on its lower end with a cross-bar *k*, preferably of the same length as the bar *f*. The upper end of the rod *i* has a cone-shaped head *l*. A pin *m*, provided with a knob *p*, projects laterally through the handle A into the path of the rod-head *l*, and is held in position by a coiled spring *q*.

A wringer D, adapted to be detachably secured to a pail E, consists of a horizontal body-piece *r*, provided with two downwardly-projecting clamping-arms *t v*, a screw *w* being fitted to work in the arm *t* and provided with a clamping-plate *x*. Two vertically-arranged wringing-arms *y z* are secured to the body *r* at the end opposite the clamping-arms.

In the use of my improvement the mop-cloth B is secured in the clamp C, so that one of its openings *h* registers with the mouth of the chamber *b*. The rod *i* is then inserted in said chamber, its head *l* being forced past the catch *m*, upon which it rests and is held in position. The wringer D is clamped to the pail, as described, and when it is desired to wring the mop the catch *m* is withdrawn, permitting the rod *i* to fall in the chamber *b* until its cross-bar *k* engages the lower end of the cloth B. The cross-bar *k* is then inserted between the wringing-arms *y z* of the wringer, when by turning the mop-handle the cloth may readily be twisted to expel the water, as shown in Fig. 2, after which the rod *i* may again be returned.

By providing the cloth with a series of holes *h* as soon as it becomes worn its position may readily be changed in the clamp C and the rod *i* passed through another opening.

Having thus explained my invention, what I claim is—

1. In a floor-mop, a handle provided with a clamp and a vertical chamber opening therethrough, in combination with a sleeve-shaped mop-cloth having openings adapted to register with the mouth of said chamber, a rod fitted to slide therein and provided with a cross-bar, and a spring-catch for detachably securing said rod in the handle-chamber, substantially as described.

2. In a floor-mop, a handle chambered vertically in its lower end, a spring-catch projecting into said chamber, a rod fitted to slide therein, having a cone-shaped head and a cross-bar on its outer end, a clamp on said handle, through which said rod passes, and a sleeve-shaped mop-cloth secured in said clamp and provided with a series of holes for said rod, substantially as described.

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