

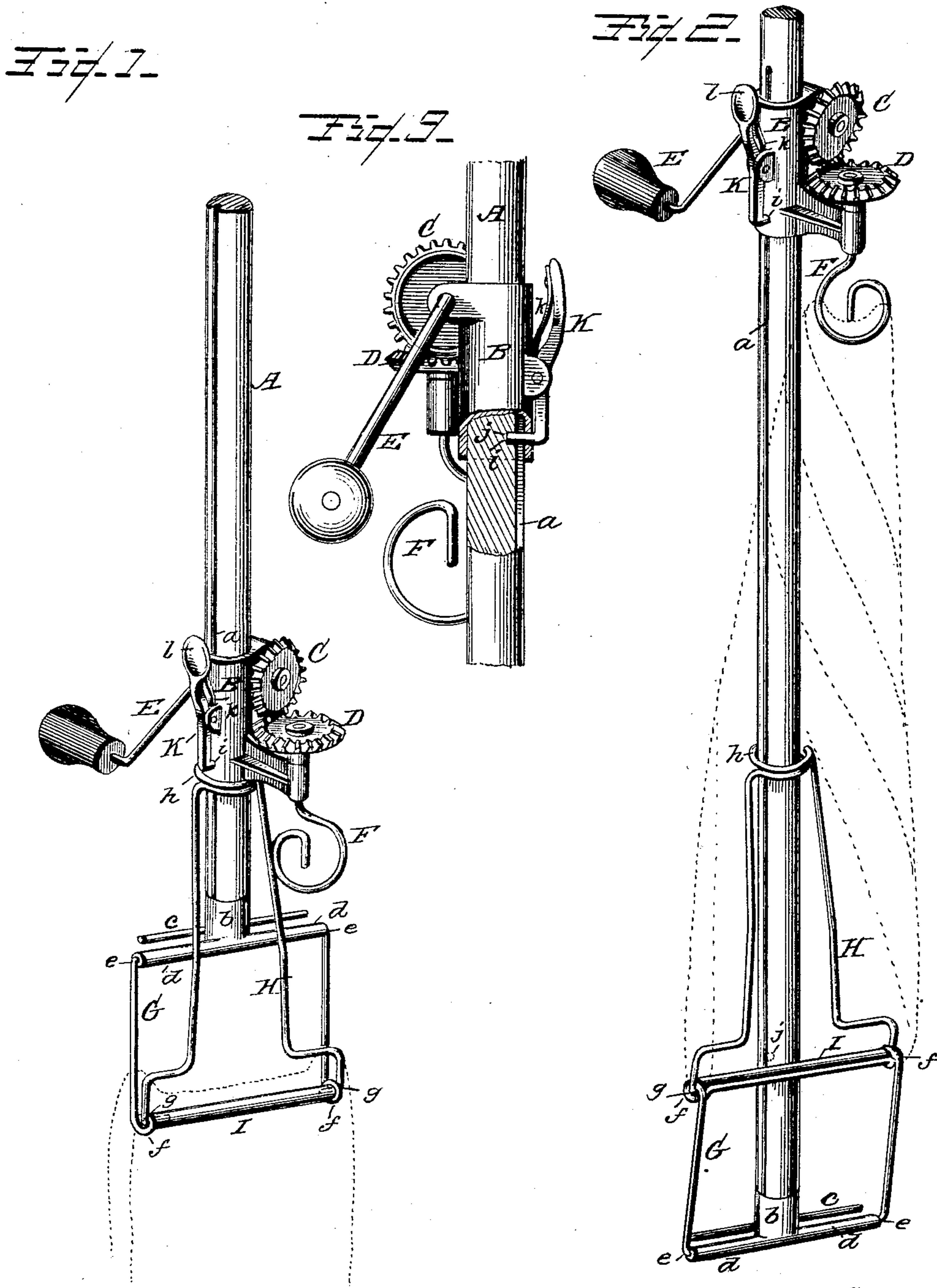
No. 704,133.

Patented July 8, 1902.

A. W. SMITH.
MQP HOLDER AND WRINGER.

(Application filed Apr. 29, 1902.)

(No Model.)



Witnesses
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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. 704,133, dated July 8, 1902.

Application filed April 29, 1902. Serial No. 105,177. (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 reference to that class of mop-wringers which are connected to the handle of the mop-holder; and the object thereof is to provide a simple and effective wringer capable of adjustment upon the handle of the mop-holder to bring the wringer in operative position for wringing the mop or when not required for use to be lowered on the handle and securely held in such position until again required for use, as will be hereinafter more fully described and claimed.

Figure 1 of the drawings is a perspective view of a mop-holder with mop shown in dotted lines and my improved wringer connected to the handle thereof and lowered out of the way when not in use as a wringer; Fig. 2, a similar view showing the mop in dotted lines and the wringer elevated on the handle in position for use and the clamping-jaws of the mop-holder in a raised position; Fig. 3, a detail side elevation with the handle partly in section and on an enlarged scale.

In the accompanying drawings, A represents the handle of the mop-holder, having the longitudinal groove *a*, the handle having connected to its lower end a socket-head *b*, the rod *c* for convenience of connecting a scrubbing-brush thereto when the mop-holder is removed to be used in the place thereof, and also the socket-head is provided with laterally-extending tubular arms *d* for removably connecting thereto one of the clamping-jaws of the mop-holder.

The mop-holder comprises two clamping-jaws G H, hinged together at their lower ends, the inwardly-projecting ends of the jaw H, as indicated at *g*, engaging bearing-eyes *f* on the jaw G and entering the ends of a tubular bearing-roller I. The inwardly-projecting ends *e* of the jaw G enter the ends of the tubular

arms *d* and form a pivotal connection between the jaw and the arms, while the connection between the two jaws forms a hinge. These jaws may be of any suitable construction so long as the jaws are hinged together and one of the jaws pivotally connected with the handle, so that the jaws may be folded together when the mop is in use, as shown in Fig. 1 of the drawings, or extended or unfolded, as indicated in Fig. 3 of the drawings, which latter position is when the mop is to be wrung. The clamping-jaw H has a loop *h* at its upper end, through which the handle A of the mop-holder extends in order to form a guide for the jaw when it slides up or down on the handle, and also forms a bearing-shoulder for the sleeve B when said sleeve is down on the handle to the position shown in Fig. 1 of the drawings. The sleeve B when in its lowered position bears against the loop *h* and holds the jaw H stationary and prevents the same from sliding on the handle, and in the position indicated in Fig. 1 of the drawings the mop is ready for use, and when in the position shown in Fig. 3 of the drawings the mop is to be operated upon by the wringer, the mop in said figure being shown in dotted lines and connecting with the wringer.

The wringer comprises the sleeve B, the two bevel gear-wheels C D, and the hook device F, connecting with the wheel D and to which the mop is engaged, said hook device being of any suitable construction that will engage the end of the mop. The bevel gear-wheels C D mesh with each other, and the gear wheel C is provided with a suitable handle E for turning it, which will communicate its motion to the gear-wheel D, and through the medium of the hook device F the mop will be wrung by twisting it. The sleeve B is allowed to slide lengthwise of the handle A, but is held against rotation thereon by means of the longitudinal groove *a* and the spring-actuated latch device K, the bolt *i* of the latch engaging the groove to prevent the sleeve from rotating upon the handle. It is essential to hold the sleeve stationary when the wringer is not in use and against the loop *h* of the clamping-jaw H, or in an elevated position, as shown in Figs. 1 and 3 of the drawings, respectively, and for this purpose there are provided sockets *j* in the groove *a* near the top and bottom

of the handle A, and with these sockets engages the bolt *i* of the latch K, said latch being spring-actuated by means of a suitable spring *k* and is preferably provided with a
5 suitable thumb-piece *l* for operating it.

Any suitable spring-actuated latch and any suitable arrangement of gearing may be substituted for that shown, and any such changes as would come within ordinary mechanical
10 construction may be resorted to without departing from the spirit of my invention.

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

15 1. The combination with a mop-holder having two pivoted and hinged jaws, of a wringer provided with a hook device for engaging the mop, said wringer provided with a sleeve slidable upon the handle of the mop-holder,
20 and a spring-actuated latch for holding the sleeve against rotation and holding it in a

lowered or raised position, substantially as and for the purpose set forth.

2. A mop-holder comprising two hinged and pivoted clamping-jaws, one of said jaws having a loop at its upper end and a handle extending through the loop, a longitudinal groove in the handle and sockets in the groove, and a suitable wringer slidable upon the handle, and a spring-actuated latch to engage
30 the groove and sockets to hold the wringer from turning upon the handle and also hold it stationary in either a lowered or elevated position, substantially as and for the purpose specified. 35

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.,
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