A. W. BUNNELL.

Mop-Wringers.

No. 144,828. Patented Nov. 25, 1873.

Fig. 1.

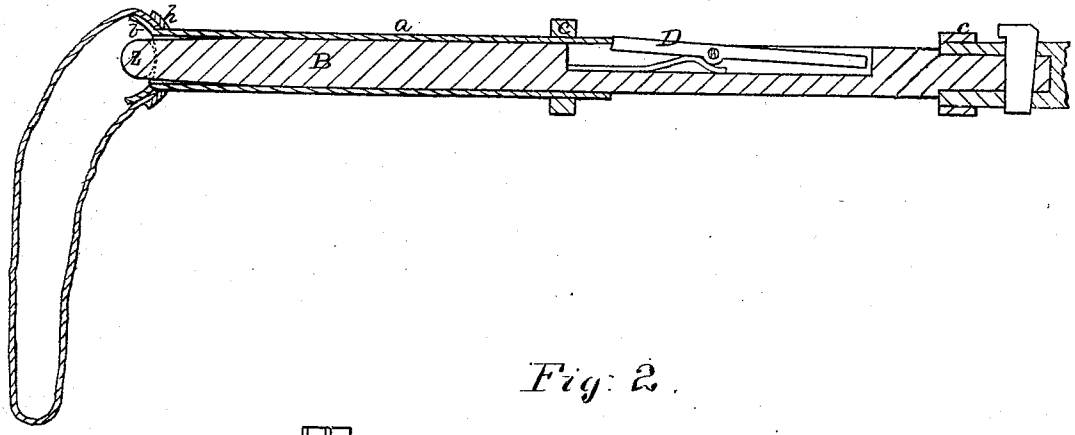
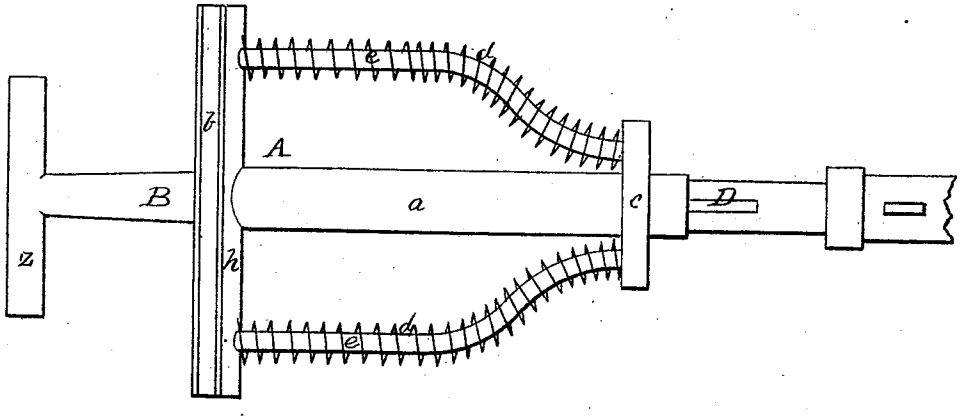


Fig. 2.



Witnesses.

E. H. Bates

Chas. B. Steele

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Chipman & Fraser & Co

Attys

UNITED STATES PATENT OFFICE.

AARON W. BUNNELL, OF LINESVILLE, PENNSYLVANIA.

IMPROVEMENT IN MOP-WRINGERS.

Specification forming part of Letters Patent No. **144,828**, dated November 25, 1873; application filed March 29, 1873.

To all whom it may concern:

Be it known that I, AARON W. BUNNELL, of Linesville, in the county of Crawford and State of Pennsylvania, have invented a new and valuable Improvement in Mops and Wringers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my mop-head. Fig. 2 is a top view of the same.

This invention has relation to mop-heads; and it consists in the construction and novel arrangement of the sliding sleeve, rigidly attached to the mop-holding plate, and the extension-handle having rigidly attached to its end the wringer cross-bar, whereby the mop-cloth band is stretched for wringing by pushing the handle with its rigidly-attached cross-bar down through the sleeve, which is designed to be provided with a suitable offset or shoulder to give a purchase against the edge of a tub or stationary projection, whereby the mop is wrung.

In the accompanying drawings, the letter A indicates that portion of the mop-head to which the cloth is attached. This consists of the sleeve *a*, the cross-head *b* made convex toward the cloth, and connected with transverse bar *c* at the other end of the sleeve by the brace-rods *d*, the springs *e*, and the concave sliding cross-plate *h* having openings at its center and ends for the passage, respectively, of the sleeve *a* and the braces *d*. The cloth slipped over the convex cross-head *b* is secured by the concave slide-plate *h*, which is pressed down upon it by the springs *e*. The opposite side of the cross-head *b* is concave. B indicates an extension-shank, which may be connected with the handle C by a ferrule, key, or other device. This shank passes through the sleeve *a*, and is provided at its end with a rigid cross-bar, *z*. D indicates a spring-stop, by means of which the sleeve *a* of the mop-head is locked at the end of the extension with the cross-bar *z*, in position lying lengthwise within the concavity of the under side of the cross-head *b*. When the parts are thus locked together, the mop-head will not turn on the extension, and may be conveniently operated by the handle.

In wringing the mop, the spring-stop is disengaged by pressure, and the sliding head A forced back upon the extension-shank by catching the cross-bar *c* upon the edge of the tub or other convenient projection. The handle can then be turned, rotating the shank B in the sleeve *a*, and twisting the cross-bar *z* in the mop-cloth; or the bar *c* may be held by one hand while the handle is pushed down and twisted with the other.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the wringer mop-holder having the mop-head *b* rigidly attached to the sleeve *a*, and the wringer cross-bar *z* rigidly attached to the handle-shank B, and the offset *c*, or its equivalent, rigidly attached to the sleeve *a*, as specified.

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

AARON WHITED BUNNELL.

Witnesses:

E. C. HUGHES,

E. S. GRAHAM.