

(No Model.)

W. F. MILLS.

MOP WRINGER.

No. 303,742.

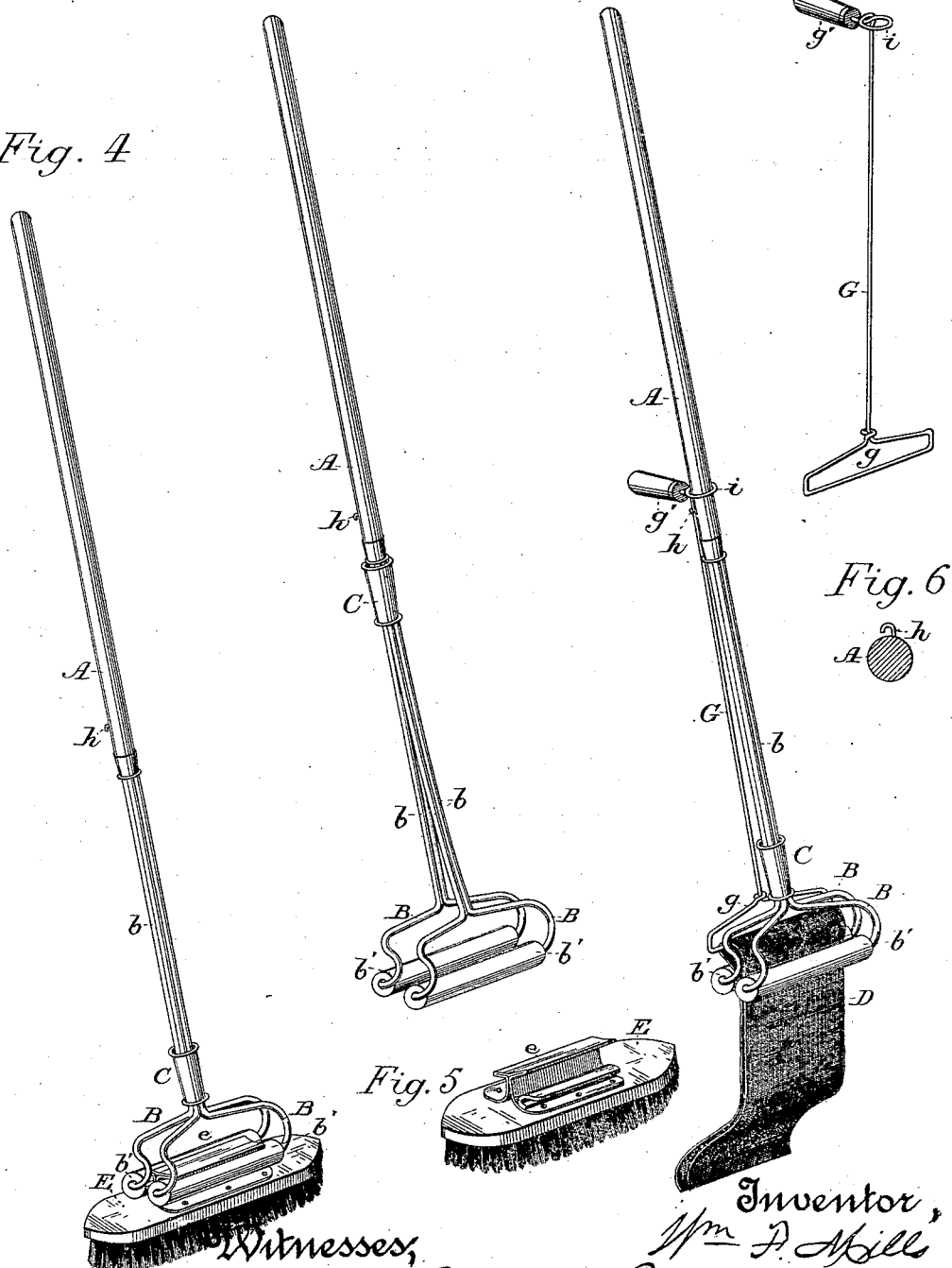
Patented Aug. 19, 1884.

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4



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UNITED STATES PATENT OFFICE.

WILLIAM F. MILLS, OF OAKLAND, CALIFORNIA.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 303,742, dated August 19, 1884.

Application filed January 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. MILLS, of the city of Oakland, county of Alameda, and State of California, have invented an Improvement in Mop-Wringers; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a new and useful self-wringing mop and brush attachment; and it consists in a means by which the mop can be wrung without handling it, as I shall hereinafter fully explain.

The object of my invention is to provide a house implement which is adapted to wring the mop conveniently without having to take it in the hands.

Referring to the accompanying drawings, Figure 1 is a perspective view of the handle with its clamp. Fig. 2 is a perspective view of the same with the mop attached. Fig. 3 is a view of the mop-holder. Fig. 4 is a view of the handle and clamp with brush attached. Fig. 5 is a view of the brush. Fig. 6 is a cross-section of the handle, showing the hook by which the rod of the mop-holder is guided beside the main handle.

A is a handle resembling that of a broom, and having secured to its lower end the shanks *b* of the open clamp-frames B. These shanks are made of some spring material, either a single plate, or as here shown, of rods or heavy wires bent to suitable shape. The bases *b'* of the frames B are by reason of the spring of the shanks normally separated to permit the introduction of the brush or mop or other similar attachment. They are forced to clamp whatever may be inserted between them by means of a sleeve, C, fitted upon the shanks, and adapted to be forced down and drawn up. When pushed down, the bases *b'* of the clamps are forced together and held, and when pulled up they spring open again.

In Fig. 2 the mop D is shown as introduced between the clamps, and the sleeve is forced down to clamp it. Instead of the mop, I show in Fig. 4 a brush, E, as being clamped, ready for use. This brush I shall explain more fully hereinafter.

Though the mop may be thus readily clamped and used, my invention contemplates a further improvement. The bases *b'* of the clamp-frames are made as rollers, as shown, and adapted to be revolved.

Fig. 3 shows the holder of the mop. It consists of a rod, G, the base of which is bent

to form an open frame, *g*, and a handle, *g'*, is secured to the upper end, which is formed with a loop, *i*.

The mop D is fitted through the open frame *g*, as seen in Fig. 2, passing through one of the frames B, and is drawn down between the roller-clamps. The rod G is laid along the handle, being guided by a hook, *h*, Fig. 6, and by the loop *i*, which fits over the handle A. When the mop has become too wet, the handle *g'* is pulled up, thus drawing the mop up between the rollers *b'*, which, being compressed tightly by the sleeve, act as a wringer for the mop and relieve it of its surplus water. When the mop is drawn fully up, the sleeve is then raised to relieve the clamps, and the mop is again lowered between them. This wringing feature of the device saves much trouble in the use of the mop, as it can be done rapidly and conveniently. The brush E has a grooved handle-piece, *e*, with which the clamps engage, as shown in Fig. 4. When the brush is to be used, the mop is of course temporarily removed and again inserted upon the removal of the brush according to the progress of the work.

I am aware it is not broadly new to clamp a mop between a pair of spring-arms by means of a sliding frame, and such I do not claim.

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

1. The handle A, having the clamping-frames B, with rollers *b'* and spring-shanks *b*, and the sleeve C on the shanks, in combination with the mop D between the rollers, the rod G, having the frame *g*, to which the mop is secured, and a handle, *g'*, for raising it, substantially as and for the purpose herein described.

2. The handle A, having the open clamping-frames B, provided with rollers *b'* and spring shanks *b*, and the sleeve C on the shanks, in combination with the handle-rod G, guided by the handle A, and having an open base-frame, *g*, adapted to secure the upper end of a mop lying between the rollers, substantially as herein described.

In witness whereof I have hereunto set my hand.

WILLIAM F. MILLS.

Witnesses:

B. F. SANBORN,
WM. F. BOOTH.