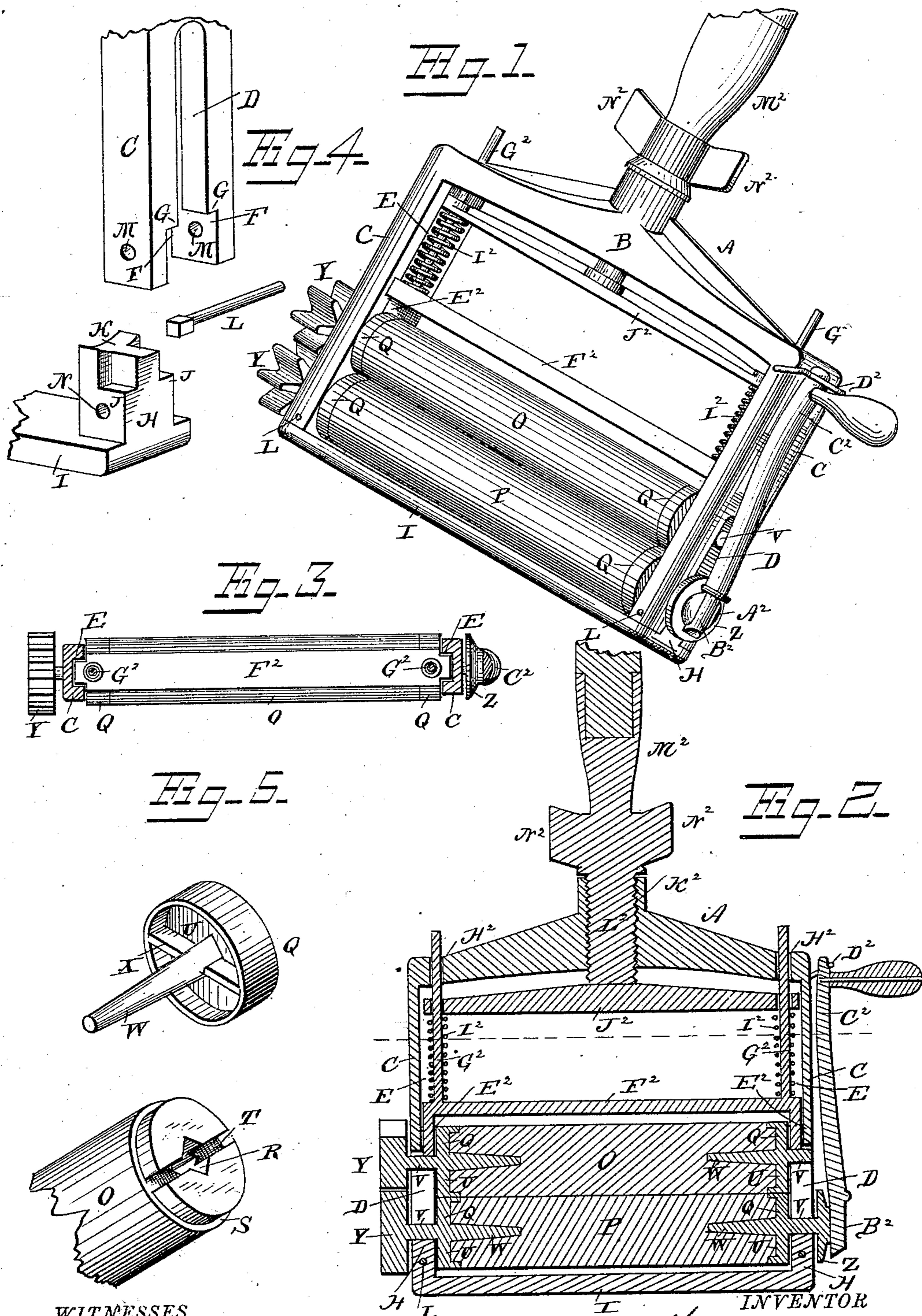


(No Model.)

W. H. BOWEN.
MOP HOLDER.

No. 285,003.

Patented Sept. 18, 1883.



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM HENRY BOWEN, OF OSKALOOSA, IOWA.

MOP-HOLDER.

SPECIFICATION forming part of Letters Patent No. 285,003, dated September 18, 1883.

Application filed May 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, WM. H. BOWEN, a citizen of the United States, residing at Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and useful Mop-Holder, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to mop holders and wringers; and its object is to provide a device possessing superior advantages in point of simplicity, inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of my device. Fig. 2 is a longitudinal sectional view. Fig. 3 is a horizontal sectional view. Fig. 4 is a detail perspective view of the joint between the main frame and the bottom cross-piece. Fig. 5 is a detail perspective view of the end of one of the rollers and the bearing-piece or gudgeon thereof.

Referring to the drawings, A designates the frame, which comprises a top cross-piece, B, and two side pieces, C C, at the lower ends of which latter are provided slots D, in the longitudinal interior guide-grooves, E, as shown. At the bottom of the slots E E are formed recesses F, that provide shoulders G G. These recesses F F receive the upwardly-projecting ends H H of the removable bottom cross-piece, I, of the frame A, these projecting ends H H being provided with shoulders J J, that abut against the shoulders G G, and with a concaved top edge, K, that forms a bearing for the ends of the bottom roller. The removable bottom piece, I, is secured to the side pieces, C C, of the frame by means of a cross-pin, L, which is inserted through perforations M M in the sides of the recess F, and through a perforation, N, in the end H.

O P designate, respectively, the top and bottom rollers. These rollers are formed of any suitable material, and have bearing-pieces or gudgeons Q arranged on their ends. The rollers are provided with an end recess, R, having angular sides, and with a circumferential shoulder, S, from which extends a transverse groove, T, that crosses the recess R. The end pieces, Q, are correspondingly formed, and comprise a circular cap or disk, U, having a projecting gudgeon, V, from its face, and formed with an inwardly-projecting pin, W,

that is received into the recess R, and with a transverse rib, X, that is received by the groove T. At one side of the frame the rollers are provided with intermeshing gear-wheels Y Y, and at the other end of the frame one of the rollers is provided with a disk, Z, having a dovetailed groove, A², adapted to receive the correspondingly-shaped end B² of an operating crank or handle, C². A pivoted loop, D², is arranged at the upper corner of the frame A, which is adapted to be turned down over the top end of the handle C², to retain the same against the side of the frame when the device is in use as a mop. The top roller, O, has its bearings against the downwardly-projecting ends E² E² of an adjustable cross-piece, F², from which vertical pins or guides G² G² project up through perforations H² H² in the top piece, B, of the frame. Coiled springs I² I² are arranged around the pins G² G², and against these springs a transverse bar, J², works, the said bar being arranged to slide on the pins G² G² to regulate the tension of the springs on the cross-piece F². By adjusting this tension-bar J² the relative pressure of the rollers can be regulated. The top bar, B, is provided with a central interiorly screw-threaded perforation, K², in which works the exteriorly screw-threaded end L² of the handle-socket M², this socket being preferably provided with wings or flanges N² N², by which it can be conveniently operated to cause its end to bear on the tension-bar F² to adjust the same.

The operation and advantages of my invention will be readily understood. In practice the mop-cloth is placed between the rollers and the tension of the springs is tightened, so that it will be firmly retained between the same during the operation of mopping. When it becomes necessary to wring the mop, the rollers have simply to be turned by the crank or handle so that they will carry the mop-cloth between them and thoroughly wring the same.

I claim as my invention—

1. The combination of a frame comprising a top cross-piece having the interiorly screw-threaded perforation and the perforations at the sides of the same and the side pieces, pressure-rollers arranged at the bottom of the frame, the transverse cross-piece, against which the

top roller has its bearings, this cross-piece being provided with upwardly-extending pins passing through the smooth perforations in the top piece of the frame, the coiled springs arranged on these pins, the transverse tension-bar acting on these springs, and the mop-handle socket, exteriorly screw-threaded and working through the screw-threaded perforation against the tension-bar, as set forth.

2. The combination of the frame comprising the perforated top cross-piece, the grooved and slotted sides, and removable bottom cross-piece, providing bearings for the bottom roller, the rollers having the end gudgeons and inter-meshing gear-wheels, the cross-piece having the downturned ends, forming bearings for the top roller, and provided with upwardly-extending pins passing through the perforations in the top cross-piece of the frame, the coiled springs arranged around these pins, the transverse tension-bar acting against the said springs to regulate their tension, and the handle-socket provided with the exterior screw-threads and working through the top cross-piece of the frame against the tension-bar, as and for the purpose set forth.

3. The combination of the frame carrying the pivoted loop at its upper corner, and provided with the grooved and slotted sides, the rollers having the gudgeons working through the said slots, one of these gudgeons being provided with the disk having the dovetailed groove, and the operating crank or handle having a correspondingly dovetailed end, and adapted to be held against the side of the frame by the top loop, as and for the purpose set forth.

4. The combination, with the roller having the end recess with angular sides, the circumferential shoulder, and the transverse groove extending from this shoulder and through the said recess, of the end piece or gudgeon having the corresponding circular cap or disk provided with the projecting gudgeon and with the inwardly-projecting pin and transverse rib, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM HENRY BOWEN.

Witnesses:

JAS. R. ASHER,

FRANK DALBY.