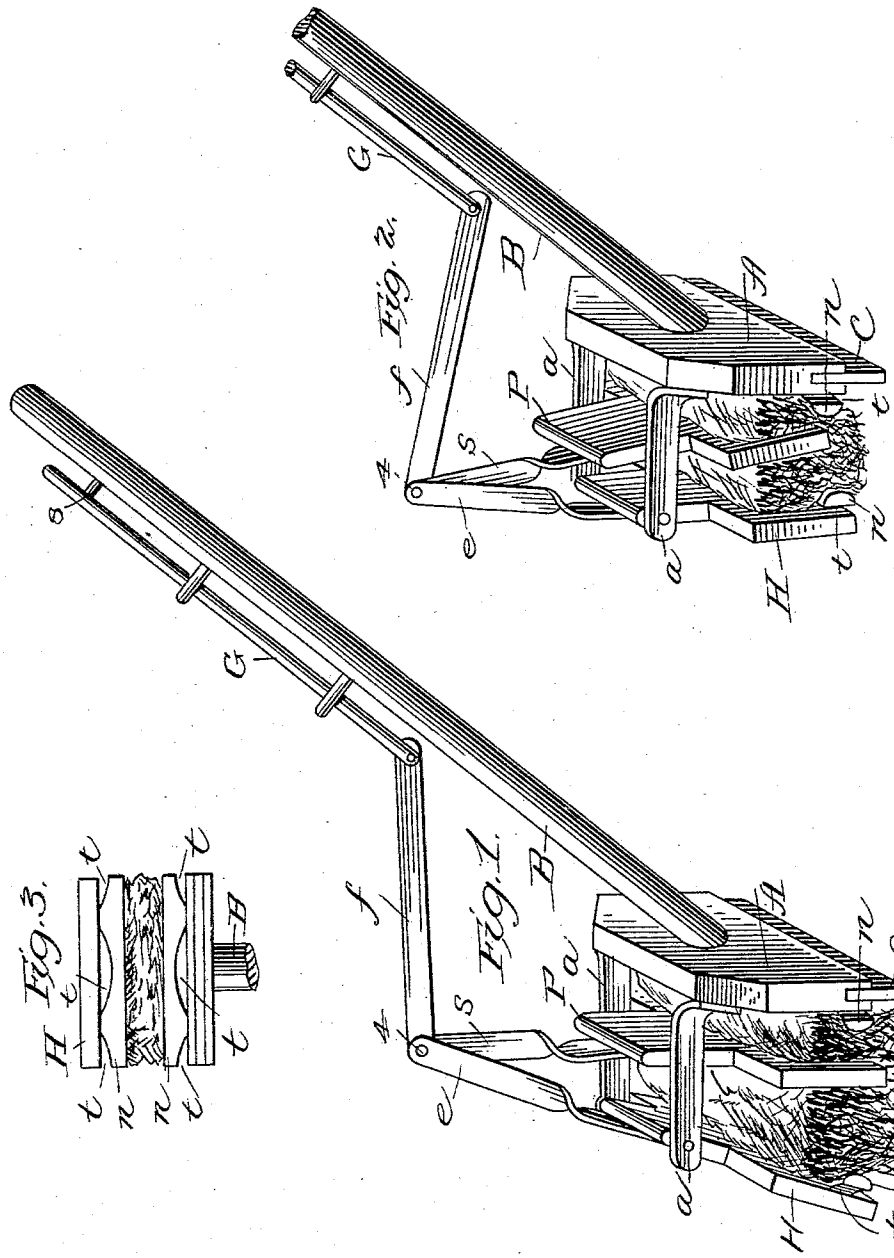
(No Model.)

G. A. KEENE.

FLOOR MOP.

No. 331,641. Patented Dec. 1, 1885.



Attest:
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UNITED STATES PATENT OFFICE.

GEORGE A. KEENE, OF LYNN, MASSACHUSETTS.

FLOOR-MOP.

SPECIFICATION forming part of Letters Patent No. 331,641, dated December 1, 1885.

Application filed April 30, 1885. Serial No. 163,955. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. KEENE, of Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented certain Improvements in Floor-Mops, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to floor-mops, and the nature thereof is fully described and specifically claimed hereinafter.

Referring to the drawings, Figure 1 is a perspective view of a mop embodying my improvements, and represents the mop with jaws opened and the rags or sponge depressed. Fig. 2 is a similar view of the mop with jaws closed together. Fig. 3 is a plan view of the bottom face of the mop, the jaws being closed as in Fig. 2.

The frame or block A, which forms the rear jaw of the mop, is provided with a fixed handle, B, and carries in its bottom face a scraper, *c*, composed of rubber or other similar material. Secured to and extending forward from the block A are two arms, *a a*, in which is arranged, as shown, the block H, that forms the front jaw of the mop. Said block or jaw is connected with the arms *a a* by any suitable pins or screws, and is allowed to rock or oscillate on its pivoting-pins. Secured to the block is an arm, *e*, which is jointed at its top end with the rod *f*, which rod *f* connects, as shown, with a rod, G, which extends upward along the handle B. Said handle B is provided with pins or staples adapted with openings to receive the rod G and allow movement thereof endwise for the purpose of manipulating the toggle-arm *f*. Said rod G is provided with a hole to receive the pin 8, which, being allowed to enter the hole in rod G, operates to lock and prevent the endwise movement thereof.

The mop-rag K may be composed of cloth, sponge, or other flexible material. It is attached to a block, P, and is suspended by an arm, *s*, from the toggle-joint 4, the block and mop-rag being left free play between the jaws H A, as shown. The jaws H A are provided with cleats or wipers *n*, one attached to each jaw, and at or near the bottom edge thereof, as shown. Said wipers operate, when the jaws are brought together, to squeeze the moisture out of the extreme lower part of the mop-rag, as referred to hereinafter, and between the cleats and the jaw are holes or openings *t*, to allow the water from above to escape downward.

In operating this mop the workman, having first moistened the mop-rag, should raise the rod G, thereby to open the jaw H and depress the mop-rag K to the position shown in Fig. 1 of the drawings. He should then allow the pin 8 to enter the hole in rod G, thus to lock the rod G, and so to prevent all movement of the jaw H while the operation of scrubbing and wiping the floor is being performed. In the operation of scrubbing, the workman may seize the handle B alone, or he may also grasp the rod G. The scrubbing and wiping is performed in the usual way. In order to rinse and wring the mop-rag, the pin 8 must be depressed to release the rod G. Thereupon the mop-rag may be placed in water and the rod G reciprocated up and down, thus manipulating the jaw H and alternately squeezing and expanding the mop-rag K.

It should be observed that each reciprocation of the rod G not only effects a movement of the jaw H, but it also lifts and depresses the mop-rag K, and the arrangement of toggle-arms *e* and *f* relatively to the mop-rag-supporting arm *s* should be such that when the jaws are forced together, as in Fig. 2 of the drawings, the mop-rag will be raised to bring the cleats *n* quite closely to the end or bottom edge of the rag, as shown.

It will be seen that the inward movement of the jaw H and the upward movement of the mop-rag are simultaneous, thus producing both a squeezing and rubbing or wiping pressure on the mop-rag. This operates through the strips *n* to work the water down to and quite out of the end of the mop-rag. The moisture above the strips *n* will pass readily down through the openings *t*, and thus be prevented from soaking back into the mop-rag.

I claim as of my invention and desire by Letters Patent to secure—

1. In a floor-mop, the combination of a fixed jaw provided with a handle, a pivoted jaw, and suitable operating-rods to move the said jaw toward and from the fixed jaw, a mop-rag composed of sponge or other flexible material,

and a supporting-block therefor suspended between the two jaws, substantially as described.

2. In a floor-mop, the combination of a fixed jaw provided with a handle, a pivoted jaw, operating-rods for moving said jaw to or from the fixed jaw, a mop-rag composed of sponge or other flexible material, a supporting-block therefor suspended between the two jaws, and a locking device, substantially as described, for holding the movable jaw in an open or closed position, substantially as described.

3. In a floor-mop, the combination, with the jaws thereof, of a scraper secured to one of the jaws and projecting below the edge of the same, the mop-rag or sponge, the supporting-block therefor, and operating-rods adapted to move the mop within the edges of the jaws, whereby the scraper is permitted to come into action, substantially as described.

4. In a mop, the combination of the jaws H and A, an intermediate mop-rag, and the cleats or strips *n n*, all substantially as described.

5. In a mop, and in combination, the jaws H A and intermediate mop-rag, K, said jaws being provided with the cleats or strips *n n*, and having the openings *t* for the escape of water, substantially as described.

6. A floor-mop composed, essentially, of the handle B, the block A, having extensions *a a*, the block H, pivoted to swing in said extensions, the intermediate mop-rag, K, and operating-rods for opening and closing the movable jaw H, substantially as described and shown.

7. In a mop of substantially the construction described, the combination of handle B, the block A, secured to said handle and provided with extension-frame *a a*, the block H, pivoted to swing in said extension, and provided with the upwardly-extended arm *e*, said arm being jointed to a rod, *f*, a rod, G, connecting with the rod *f*, and extended along the handle B, and the mop-rag K, attached to a supporting-block, P, and suspended by arm *s* from the toggle-joint 4, all substantially as described.

GEO. A. KEENE.

Witnesses:
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