

Dec. 9, 1930.

A. M. GREEN

1,784,588

MOP HOLDER

Filed June 17, 1929

2 Sheets-Sheet 1

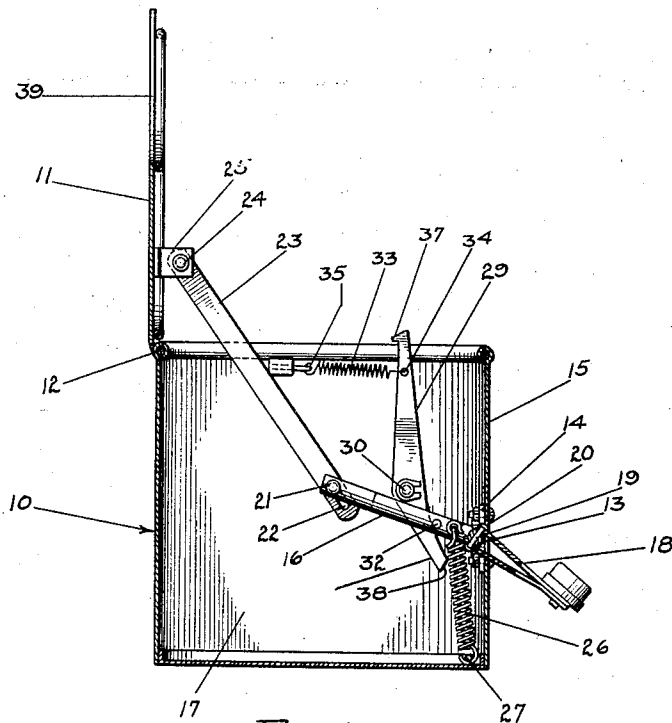


Fig. 1

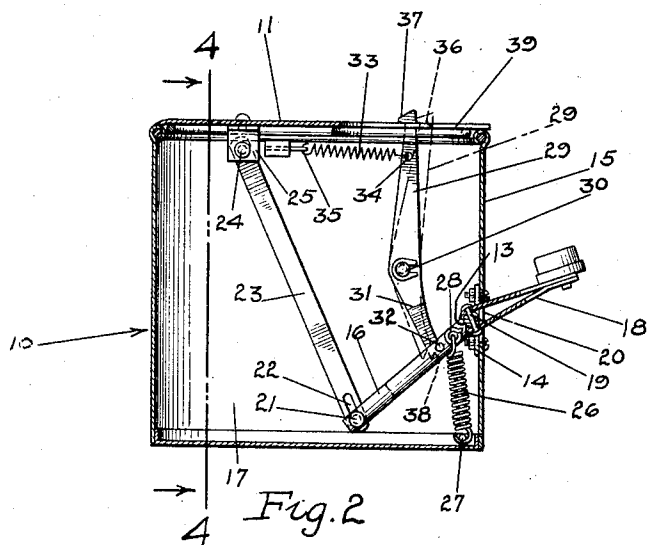


Fig. 2

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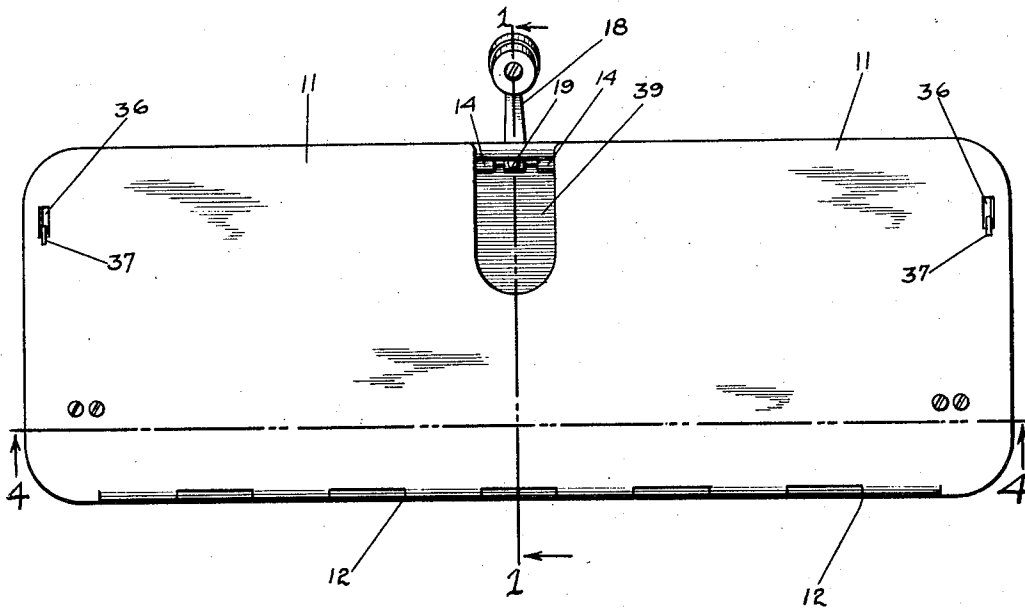


Fig. 3

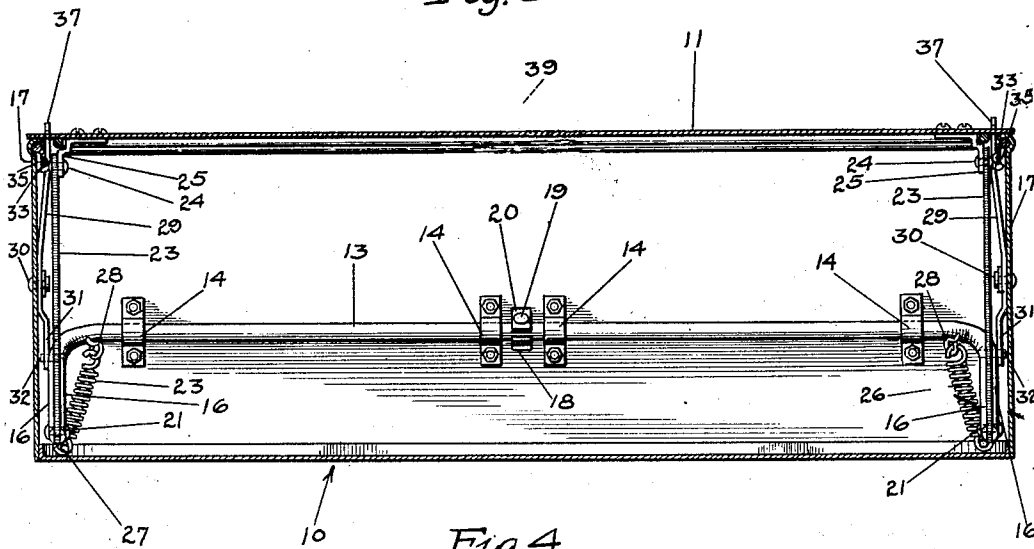


Fig. 4

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UNITED STATES PATENT OFFICE

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MOP HOLDER

Application filed June 17, 1929. Serial No. 371,437.

This invention relates to a mop holder more especially adapted to the purpose of housing an oil mop head.

An object of the invention is to provide a mop holder which will be adapted to retain the head of a mop in such manner that the mop holder, together with the mop, can be moved about from place to place by the mop handle.

A further object is to provide a mop holder adapted to receive a mop head and having a hinged cover including a slot to allow passage of the mop handle, and to equip the holder with fastening means for retaining the cover in closed position adapted to be actuated to release said cover by devices designed to additionally function to move the mop holder cover to open position.

Other objects and advantages of the invention will appear as the full description thereof proceeds, it being understood that the disclosure herein is merely illustrative and not intended in a limiting sense, slight changes in details of construction and arrangement of parts being permissible so long as within the scope of the claims which follow.

In the accompanying drawings forming a part of this specification,

Fig. 1 is a vertical transverse sectional view of a mop holder in which the features of the invention are incorporated, the section being taken on line 1—1 in Fig. 3, but the hinged cover being disclosed in open position;

Fig. 2 is a view corresponding with the disclosure of Fig. 1, showing the hinged cover in closed position;

Fig. 3 is a top plan view of the mop holder; and

Fig. 4 is a vertical longitudinal sectional view of said mop holder, taken on line 4—4 in Fig. 2 or Fig. 3.

With respect to the drawings and the numerals of reference thereon, 10 designates a box or casing, desirably of metal, having a cover 11 hinged thereto as at 12.

A horizontal rockshaft 13, rotatably mounted, as at 14, upon the front wall 15 of the box or casing, includes an arm 16 at each of its ends situated adjacent an end wall 17 of

said box or casing. A foot lever 18, secured to the shaft 13 as indicated at 19 and projecting through an opening 20 in the front wall 15, is for the purpose of swinging the arms 16 from their position as in Fig. 2 to their position as in Fig. 1.

The outer end of each arm 16 is pivotally attached, as indicated at 21, in an elongated slot 22 in the adjacent end of a link 23, the opposite end of each link being pivoted, as indicated at 24, to one of a pair of brackets 25 upon the inner face of the hinged cover. Coil springs 26, one for each arm 16, having their lower ends secured in the box or casing, as at 27, and their upper ends attached to the arms 16, as at 28, normally urge said arms to their position as in Fig. 2 to retain the cover 11 in closed position.

A latch element 29 is pivoted, as at 30, upon each end wall 17 of the box or casing; and has a depending portion 31 urged into engagement with a pin 32, one in each arm 16, by means of a coil spring 33 secured to the upper portion of said latch element, as at 34, and to the box or casing, as at 35. The upper end portion of each latch element projects above the top of the box or casing, and is adapted to pass through an elongated slot 36, one for each latch element, in the cover 11 when the latter is moved to its closed position. The coil springs 33 urge the upper portions of the latch elements toward the rear of the box or casing as disclosed, and a catch 37 upon each latch element is adapted to engage the upper surface of the cover adjacent the rearward end of the corresponding elongated slot 36 when the cover is in closed position and the foot lever 18 is elevated as disclosed in Fig. 2, to thus fasten said cover down upon the box or casing. The lower end of each depending portion 31 is shaped to provide a camming surface 38, and the pins 32 upon the arms 16 of the rockshaft 13 are adapted to ride over said camming surfaces when the foot lever 18 is depressed, to cause the depending portion 31 to be moved rearwardly and the catches 37 to be moved forwardly (as disclosed in dotted lines in Fig. 2) and thus released from said cover.

A slot 39 in the cover 11, situated intermediate the ends of said cover, preferably at the midlength thereof, and opening to its forward edge, is for the purpose of receiving the handle of a mop (not shown) the head of which is adapted to be situated in the box or casing. Desirably, the slot or opening 39 is of dimension not much greater than the dimension of a mop ordinarily intended to be housed by the present holder, smaller than the mop head, in order that the mop will be permanently held in the box or casing so long as the cover 11 is in its fastened down position.

Supposing the mop holder cover to be fastened down as it is disclosed in Figs. 2, 3 and 4, depression of the foot lever 18 will first cause the pins 32 to engage the camming surfaces 38 to move the latch elements 29 to their unlocking position, as will be evident, and will thereafter cause the cover to be lifted to open position as disclosed in Fig. 1. The elongated slots 22 in the links 23 permit movement of the arms 16 to actuate the latch elements 29 before the commencement of the lifting movement upon the cover. With the cover open, the mop can be freely removed from the holder. When the foot lever 18 is released, the coil springs 26 depress the arms 16 to move the cover 11 to its closed position, and to release the latch element 29 to the action of the coil springs 33 which act to draw the catches 37 into locking relation with the surfaces of said cover adjacent the inner ends of the elongated slots 36, as will be understood.

If desired, a small quantity of oil may be placed in the box or cover 10 in order that a mop when not in use may absorb oil, to possess a sufficient quantity of oil requisite to the use of an oil mop.

I claim as my invention:

1. A mop holder comprising a casing adapted to receive the head of a mop, a hinged cover upon said casing and having an opening to allow passage of the handle of said mop, fastening means for retaining the cover in closed position upon the casing, and devices for releasing the cover from said casing and for moving said cover to open position.

2. A mop holder comprising a casing adapted to receive the head of a mop, a hinged cover upon said casing and having a slot opening to its free edge to allow passage of the handle of said mop, said slot having dimension smaller than the dimension of said mop head, fastening means for retaining the cover in closed position upon the casing, and devices adapted to be actuated to first release the cover from said casing and to then move said cover to open position.

3. A mop holder comprising a casing adapted to receive the head of a mop, a hinged cover upon said casing and having an

opening to allow passage of the handle of said mop, a rockshaft upon said casing and having an arm, a foot lever secured to said rockshaft, a link pivoted to said arm and to said cover, resilient means attached to said casing and to said arm for urging said cover to closed position, a latch element upon said casing and adapted to engage said cover, a catch upon said latch element, resilient means urging said catch into holding engagement with said cover, and means upon said arm for releasing said catch from said cover when said foot lever is actuated.

4. A mop holder comprising a casing adapted to receive the head of a mop, a hinged cover upon said casing and having an opening to allow passage of the handle of said mop, a rockshaft upon said casing and having an arm, a foot lever secured to said rockshaft, a link pivoted to said arm and to said cover, resilient means attached to said casing and to said arm for urging said cover to closed position, a latch element pivoted upon said casing and passing through an elongated slot in said cover, a catch upon said latch element, resilient means urging said catch into holding engagement with said cover, means permitting relative movement between said cover and said arm, and means upon said arm for releasing said catch from said cover when said foot lever is actuated.

In witness whereof, I have hereunto set my hand this 14th day of June, 1929.

AZARIA M. GREEN.