

E. O. LOEBER.  
COMBINED MOP AND BRUSH HOLDER.  
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972,458.

Patented Oct. 11, 1910.

Fig. 1.

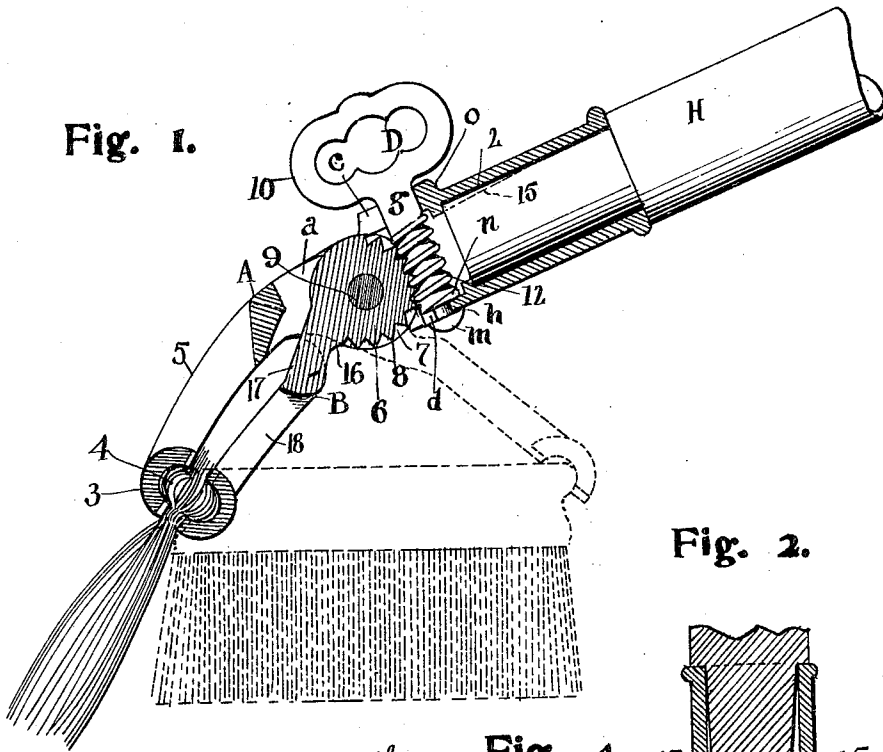


Fig. 2.

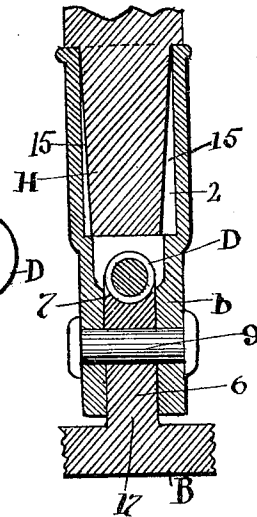


Fig. 4.

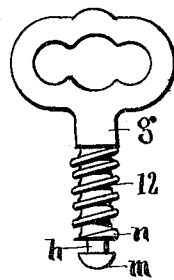
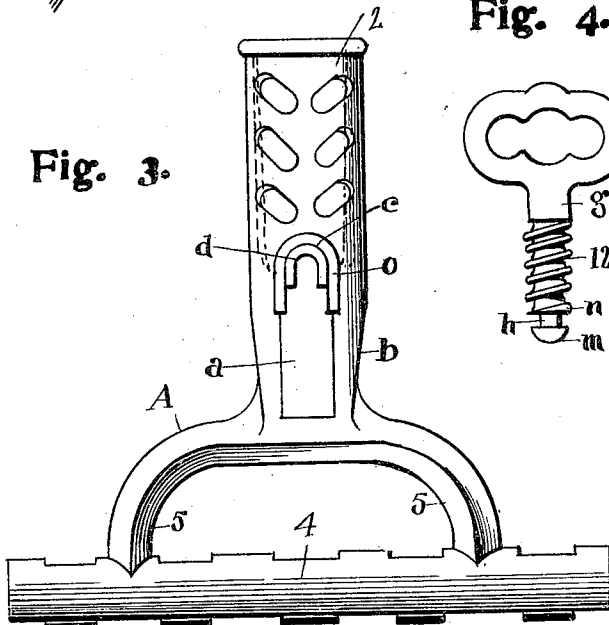


Fig. 3.



ATTEST  
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# UNITED STATES PATENT OFFICE.

EDGAR O. LOEBER, OF CLEVELAND, OHIO, ASSIGNOR TO THE HANDY MANUFACTURING COMPANY, OF CLEVELAND, OHIO, A CORPORATION.

## COMBINED MOP AND BRUSH HOLDER.

972,458.

Specification of Letters Patent. Patented Oct. 11, 1910.

Application filed June 6, 1910. Serial No. 565,423.

*To all whom it may concern:*

Be it known that I, EDGAR O. LOEBER, citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Mop and Brush Holder, of which the following is a specification.

My invention relates to a combined mop and brush holder for scrubbing purposes, and the invention consists in a holder constructed and adapted to operate substantially as shown and described and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional elevation of the holder, and shown in full lines as gripping a mop cloth and in dotted lines gripping a brush. Fig. 2 is a sectional plan view of a part of the holder as hereinafter described. Fig. 3 is a plan view of the fixed or socket member of the holder, and Fig. 4 is an elevation of the actuating screw.

The invention as thus shown comprises a head or socket member A having a handle socket 2 and a handle H mounted therein and provided with a straight upper jaw 3 having a concave channel 4 lengthwise on its under side. Arms 5 connect said jaw with the extremity of the socket portion of the head and between these arms and the handle socket a new and original construction is provided which materially improves the device, as will now appear. Thus the said member A has a longitudinal slot *a* in what may be termed its shank *b* adapted to receive the head 6 of lower pivoted jaw member B and the rotatable actuating or operating screw D. In so far as said head 6 is concerned, it has flat sides adapted to work freely but closely within the flat sides of said slot *a* and a transverse pivot pin 9 serves as a pivot for said head. Furthermore the said head is rounded and concaved in cross section on its inner edge 7 and provided with transverse teeth in said rounded concaved portion, and the operating screw D is located to hold constant and close operating connection with said teeth. Now in order that the said screw shall be held in such operating relation and be cast as a complete operating member requiring no riveting or other work thereon to apply it practically and operatively in the holder I cast the said slot *a* with an extension in its inner portion

of a depth sufficient to receive said screw in addition to said head 6 of the lower jaw and to hold the screw securely in operating relations therewith. To these ends the inner end of said slot, which opens directly into the handle socket in this instance has rounded upper and lower edges *c* and *d* respectively in the wall of said slot, the rounded edge or end *c* in the top wall conforming in size to the top *g* of the otherwise threaded stem of screw D, and the relatively smaller rounded edge or end *d* beneath conforming to the reduced or smaller neck *h* at the lower end of said screw. As to this end it is further provided with a bearing shoulder *n* next above neck *h* adapted to rest and bear down upon the rounded edge *d* and a button *m* at its extremity engaged outside against said edge and serving to confine the screw and prevent its possible withdrawal. Furthermore a slight bead *o* is formed about the top of rounded edge *c*.

Now, in assembling the parts the screw D is first placed in working position in slot *a* and seated as to walls or ends *c* and *d* as shown and described, slot *a* being large enough to permit the insertion of said screw in or through the portion occupied by jaw head 6. Then the jaw B with its head 6 is placed in working position in relation to screw D in slot *a* and pivot pin 9 inserted and riveted in place and the assembling of the parts is completed. In this connection the importance of long open slot 2 adapted to receive both screw D and head 6 will not be overlooked, because thereby all special fitting of the screw and the labor of riveting the same is omitted and the screw can be cast complete with button *m* thereon beneath or outside wall *c* while shoulder *n* within takes the down bearing. In other words this extremity of the screw serves to confine it axially both up and down, while head 6 locked in place by pivot pin 9 against the screw confines it in that direction. Again, the handle socket is specially constructed to hold the handle H firmly in place in case of shrinkage or looseness. To this end said socket is provided with ribs longitudinally which gradually deepen in wedge shape from the outer to the inner end of the socket. The handle is driven in over or upon these ribs and they lock the handle firmly in position.

Another structural and practical feature

is cavity 16 cast in the bottom or under side of neck 17 which connects arms 18 of the lower jaw with the head 6 thereof or of the complete member B. The said jaws are constructed to obtain the greatest reach possible within the limits of their construction as well as to come close together when used as a mop. When wide open the cavity 16 makes room for button *m* and thus the same size of parts otherwise provides for a wider opening than would be possible without said cavity.

The thread or worm 12 on said screw D engages the teeth 8 on the lower jaw and operates member B toward and from member 3 with pin 9 as the pivot. The reach of said member B is indicated by dotted lines, Fig. 1. Thus, for engaging a brush for scrubbing the floor or the like, shown in dotted lines, the jaw is swung back to the dotted position, but for engaging a mop cloth or something that is small it is swung to an approximately closed position, full lines, Fig. 1. It will be seen that a large range of adjustment is provided by this construction, and that a brush or a mop cloth can be gripped with equal convenience.

It will be particularly observed that the arms 5 which carry the upper or fixed jaw are curved downwardly in respect to the handle socket so as to bring said jaw and the engaging portion of the pivoted jaw wholly beneath the axis of said handle and socket, and that the said pivoted jaw is adapted to swing back beyond its own pivot relatively as far as it swings forward from the same and behind the line of the screw D beneath the handle socket so that when a brush is gripped between the said jaws, as shown in dotted lines, Fig. 1, it will occupy a position in respect to the handle which enables the user to hold the handle at the

most convenient inclined position to do the work and so that the whole working surface of the brush will come flat upon the floor and no undue tilting of the handle is necessary. Or in case a mop cloth is used the jaws are brought together in such way that the lower jaw will not scrape on the floor and the cloth will come down on the floor and lift the jaw B above the same. This could not be if the parts were not brought under the cloth and removed from the floor by the construction shown.

What I claim is:

1. A mop holder having a fixed upper member provided with a handle socket and a pivoted lower member and meeting jaws on said members, said fixed member having a vertical longitudinal slot with a rounded inner extremity, a controlling screw for the lower jaw operatively sealed in said rounded extremity and said lower member having a head pivoted in said slot and provided with transverse teeth engaging said screw, said screw being locked against removal in the said rounded inner extremity of said slot.

2. A mop holder having a handle supported jaw member with a vertical slot lengthwise in its shank and the inner end of said slot rounded at *c* and *d* respectively top and bottom, a controlling screw resting against said rounded portions and engaging said lower portion *d* at top and bottom, thereby confining said screw against lengthwise movement and a lower jaw member pivoted in said slot and having a toothed head engaging said screw.

In testimony whereof I affix my signature in presence of two witnesses.

EDGAR O. LOEBER.

Witnesses:

F. C. MUSSUN,  
E. M. FISHER.