J. A. MEINHARDT.

MOP HOLDER.

APPLICATION FILED JUNE 13, 1921.

1,414,037. Patented Apr. 25, 1922.

Fig. 1.

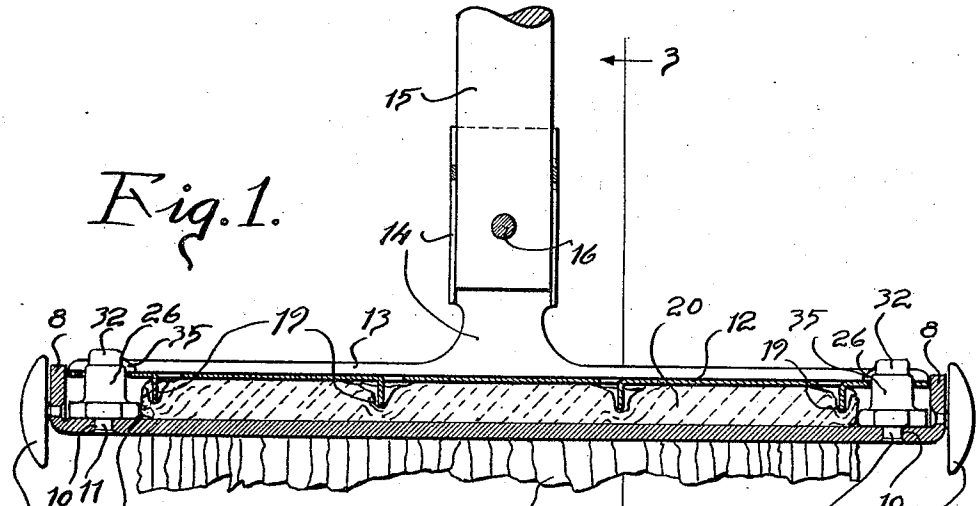


Fig. 2.

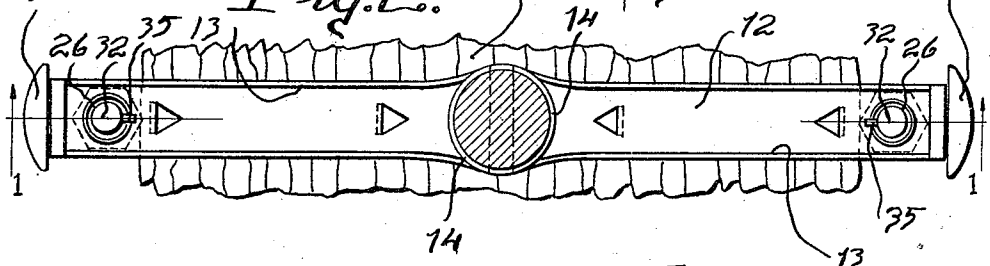


Fig. 3.

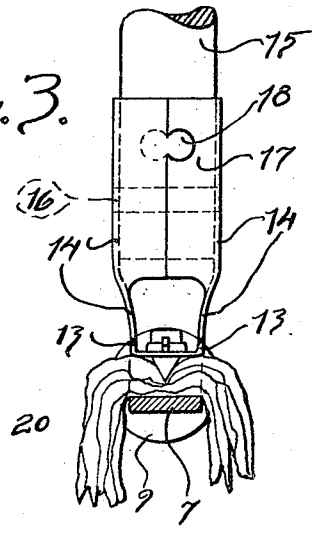
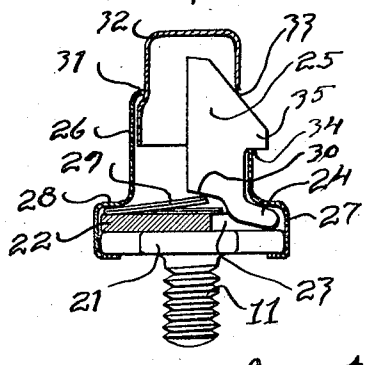


Fig. 4.



Witness

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MOP HOLDER.

1,414,037. Specification of Letters Patent. Patented Apr. 25, 1922.

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To all whom it may concern:

Be it known that I, JACOB A. MEINHARDT, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in a Mop Holder, of which the following is a specification.

The present invention has relation to floor-mops, and particularly, to a holder of a clamp type for cloths of such mops, and it consists in certain peculiarities of the construction, novel combination and arrangement of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

One of the objects of the invention is to provide a mop-holder of a clamp type, the clamping members of which can be easily detached from one another for the disposition there-between of a mop, and then readily connected together in such a way as to securely hold the mop in position ready for use in mopping or wiping a floor or other surface to be cleaned without liability of the mop becoming bunched by sliding lengthwise of the clamping members.

Another object is to provide a mop holder of such construction and arrangement of its parts as to enable it to be economically manufactured, and if desired, by stamping out various of its parts.

Other objects and advantages of the invention will become obvious from the subjoined description and explanation.

In the accompanying drawing, which serves to illustrate an embodiment of the invention—

Fig. 1 is a sectional view taken on line 1—1 of Fig. 2 longitudinally through the clamping members of the device.

Fig. 2 is a plan view partly in section.

Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 1, and

Fig. 4 is an enlarged central sectional view of one of the fasteners or locks used for detachably securing the clamping members together.

Corresponding numerals of reference refer to like parts throughout the different views of the drawing.

The reference numeral 7 designates the base clamping member of the holder, which member is made of an elongated piece of metal or other suitable material and has at each of its ends an upturned extension 8 to the outer surface of each of which is secured a cushion 9 of rubber or other suitable cushioning material. As shown in Figs. 2 and 3 of the drawing, these cushions 9 are of sufficient size to extend some distance below the lower surface of the member 7 and also outwardly of each of its side edges. By this arrangement the cushions 9 will not only serve to hold the base member 7 at a slight distance from the floor when the device is being used, but will also prevent marring the walls of a room or the furniture therein.

Near each of its ends the base member 7 is provided with a vertical opening 10 in each of which is located a shank 11 of an automatic lock or fastening device for the upper clamping member, which is designated as a whole by the numeral 12 and is substantially of a corresponding shape to that of the base member 7 except that the member 12 is without the upturned extensions 8 of the base member.

The member 12 is by preference made of thinner material than that of the member 7, and for the purpose of strengthening the same is provided along each of its edges with an upwardly extended rib 13 which are co-extensive with the member 12 and each has integral therewith midway between its ends an upwardly extended member 14 each of which is semi-circular in cross-section so that when their adjacent edges are joined, they will provide a socket for the reception of a handle 15 which may be secured in said socket by means of a bolt 16 extending transversely through suitable openings in the members 14 and in the handle.

To provide simple and efficient means for securing the members 14 together, one of said members is provided at a suitable point in its straight edge with a circular opening 17 which is intersected by the straight edge of said member, and is for the reception of a tongue 18 formed integral with the other member 14 at a proper point on its straight edge to coincide or fit in the opening 17 of the first named member. The opposite edges of the members 14 are similarly equipped with a tongue 18 and receiving opening 17 therefor. The upper clamping member 12 is provided with a number of depending spurs or projections 19 which are by preference punched out of the material of which the member 12 is made and have their lower ends pointed to engage the mop cloth which is interposed

between the base member 7 and the upper clamping member as will be readily understood by reference to Figs. 1 and 2 of the drawing.

In order to securely hold the clamping members 7 and 12 in proper relation to one another after the mop 20 has been placed in position there-between, I preferably employ at each end of the device a fastener or lock which consists of a base plate 21 from which is extended a screw-threaded shank 11 for engagement with one of the openings 10 in the base member of the holder. Located on top of the base plate 21 of the fastener is a spacing plate 22 which has a radial slot 23 for the reception of an outwardly deflected arm 24 on the locking bolt 25 of the fastener. This locking bolt, as well as the spacing plate 22, is located within a casing 26 which has a skirt 27 tucked or bent under the lower surface of the plate 21 so as to hold the casing thereon.

The upper portion of the casing 26 is contracted so as to provide said casing with an outwardly extended annular flange 28 from which the said skirt depends. Between the flange 28 and the spacing plate 22 is a spring 29 which engages a beveled portion 30 on the lower part of the locking bolt 25 opposite the arm 24 on said bolt. The upper end of the casing 26 is provided with an opening 31, in which is mounted for vertical movement a cap 32 which is provided with a vertical slot 33 registering with a vertical slot 34 in the upper portion of the casing 26. The slots 33 and 34 are for the reception of a lateral projection 35 on the locking bolt 25, which projection is normally held in its projected position by the spring 29, see Fig. 4, so that said projection will engage the upper surface of the clamping member 12, it being understood that the casing 26 is extended through a suitable opening in the member 12 near one of its ends.

In order to release the catch or projection 35 from the member 12, so as to permit of the removal of the latter from the base member, it is only necessary to exert pressure on the cap 32, which will cause the locking bolt 25 to rock inwardly of the casing against the tension of the spring 29 and thereby remove the catch or projection 35 from its extended position.

While I prefer to use a fastener or locking device of the above described construction, on account of its automatic action in locking the clamping members together, yet I do not desire to be limited to such construction, as I may employ any other suitable means in lieu thereof.

From the foregoing and by reference to the drawing, it will be readily understood and clearly seen that the upper clamping member 12, with its socket forming members 14 and its depending spurs or projections 19 can be readily stamped out of a single piece of material and positioned to provide a socket for a handle and to furnish projections for engagement with the mop at a minimum of expense.

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

1. In a device of the class described, the combination with an elongated base clamping member, of an upright mounted thereon near each of its ends and each carrying a spring-actuated catch, an upper elongated clamping member adapted to co-act with the first named member and having opening near its ends to receive said uprights, and to be engaged by said catches.

2. In a device of the class described, the combination with an elongated base clamping member, of an upright mounted thereon near each of its ends, a spring actuated catch carried by each of said uprights, an upper elongated clamping member having means midway between its ends for securing a handle thereto and provided near each of its ends with an opening to receive said uprights, and for the passage of said catches.

3. In a device of the class described, the combination with an elongated base clamping member, of an upright mounted thereon near each of its ends, a spring actuated catch carried by each of said uprights, an upper elongated clamping member having means midway between its ends for securing a handle thereto and provided near each of its ends with an opening to receive said uprights and for the passage of said catches, said upper clamping member having on its lower surface a series of spaced and depending projections.

4. In a device of the class described, the combination with an elongated base clamping member having an upturned extension at each of its ends, of an upright mounted on the upper surface of said member inwardly of but near each of said extensions, a spring actuated catch carried by the upper portion of each of said uprights, a handled elongated clamping member adapted to lie in parallelism with the base member between the upturned extensions of the latter and having an opening near each of its ends to receive said uprights.

JACOB A. MEINHARDT.