April 6, 1926. 1,579,463

D. WINTERS

FLOOR MOP

Filed Feb. 11, 1925

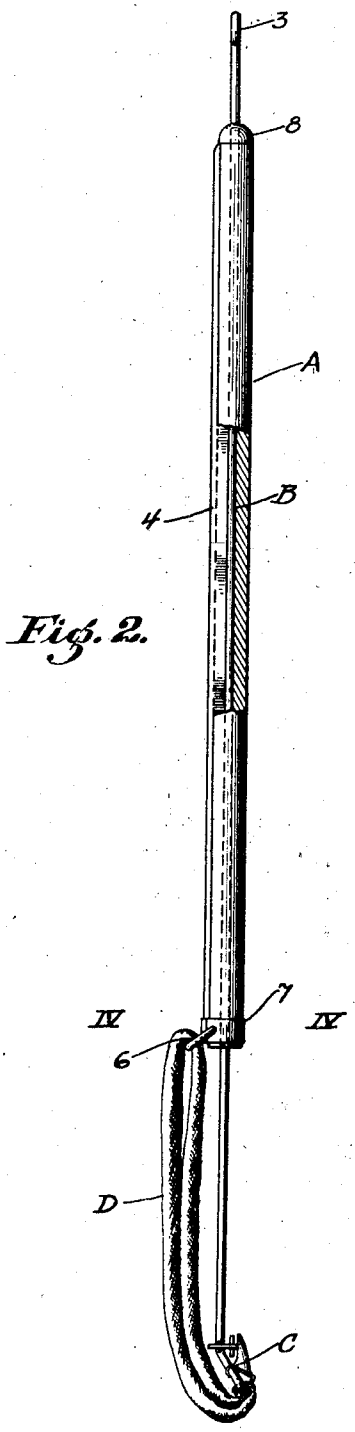


Fig. 2.

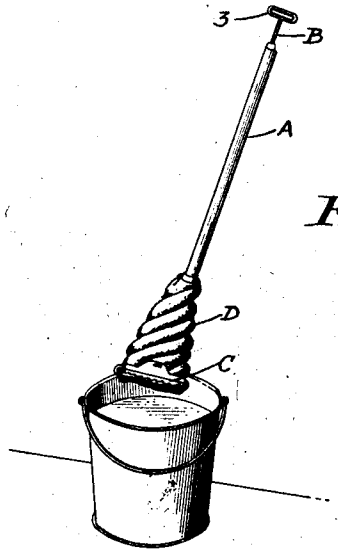


Fig. 1.

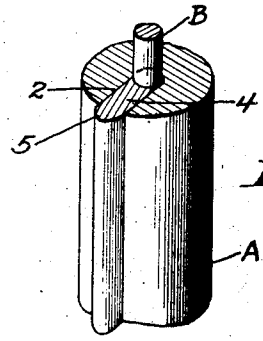


Fig. 3.

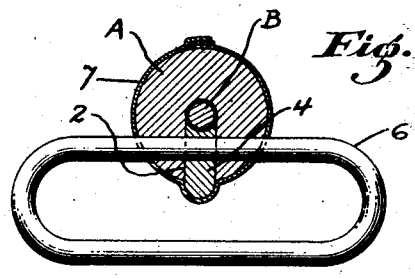


Fig. 4.

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Patented Apr. 6, 1926. 1,579,463

UNITED STATES PATENT OFFICE.

DONALD WINTERS, OF BERKELEY, CALIFORNIA, ASSIGNOR TO PARKER-REGAN MFG. CO., A COPARTNERSHIP COMPOSED OF CHESTER F. PARKER AND GEORGE P. REGAN, OF SAN FRANCISCO, CALIFORNIA.

FLOOR MOP.

Application filed February 11, 1925. Serial No. 8,420.

To all whom it may concern:

Be it known that I, DONALD WINTERS, a citizen of the United States, residing at Berkeley, county of Alameda, and State of California, have invented new and useful Improvements in Floor Mops, of which the following is a specification.

This invention relates to floor mops of the type shown in a pending application entitled "Floor mop", filed Feb. 11, 1925, Serial No. 8,424, and especially to a novel form of handle structure therefor.

The type of mop shown in the pending application referred to comprises a handle, a rod extending therethrough, a combination head and clamping member on the lower end of the rod to secure one end of a mop cloth, and means on the lower end of the handle to secure the other end of the mop cloth. A mop of this character involves both structural and practical problems, the structural problem being that of drilling or otherwise forming a central passage in the handle for the reception of the rod, and the practical problem being that of providing a handle and rod which can be readily manipulated and securely gripped as these members are depended upon to wring and otherwise handle the mop when in actual use.

The object of the present invention is therefore to generally improve and simplify the construction and operation of the handle and rod; to improve the method of forming the central passage in the handle for the reception of the rod; and further, to so construct the handle that it may be securely gripped when in use.

Other objects will hereinafter appear.

One form which my invention may assume is exemplified in the following description and illustrated in the accompanying drawings, in which—

Fig. 1 is a perspective view showing the mop in actual use.

Fig. 2 is a side elevation of the mop partially in section.

Fig. 3 is a perspective view of a portion of the handle, the filler strip and the rod retained thereby.

Fig. 4 is an enlarged cross-section, taken on line 4—4 of Fig. 2.

Referring to the drawings in detail, and particularly to Figs. 2, 3 and 4, A indicates an elongated handle constructed of wood or any other suitable material. This handle is preferably circular in cross-section and it is provided with a channel 2 which extends from end to end thereof. This channel is formed in any suitable manner and it is provided for the reception of a rod B, on the lower end of which is formed a combination mop head and clamping member generally indicated at C, which forms the subject matter of the pending application referred to.

The upper end of the rod is provided with a hand-grip 3 for the purpose of imparting a rotary and reciprocal movement thereto.

A filler strip 4 extending from end to end of the handle is provided for the purpose of forming an inner central passage in the handle for the reception of the rod, for filling the remaining portion of the channel, and also to form a projecting rib 5, which will serve the function of forming an anti-friction grip when the mop is in use. The mop is otherwise provided with a mop cloth, generally indicated at D, one end of the mop cloth being hung or suspended from a loop-shaped member 6 secured on the lower end of the handle and the opposite end of the mop being secured by the clamping member C. The filler strip may be secured in the handle in any suitable manner; for instance, by tacking, gluing or otherwise, and it is further secured by a pair of end ferrules 7 and 8.

The mop cloth indicated at D is entirely manipulated by the handle A and the rod B; that is, the mop is wrung by means of these members and the mop head may be brought into engagement with different portions of the mop when mopping a floor or the like by imparting a reciprocal movement to the rod B. It is therefore necessary that means be provided for readily gripping and manipulating the handle and the rod when the mop is in use. By providing the filler strip 4 and permitting its outer edge to project slightly beyond the circular surface of the handle, a rib is formed which produces an anti-friction grip. The handle may thus be securely gripped by one hand when wringing or otherwise manipulating the mop, while the hand-grip shown at 3 provides a secure grip for the other hand and either

the handle or the rod B may thus be reciprocated or turned one with relation to the other as desired.

Handles employing a central rod have heretofore been drilled longitudinaly and as such have been more or less costly as far as production is concerned as drilling of long passages of this character involves a fairly difficult problem. This difficulty has in this instance been entirely overcome by merely channelling the handle from end to end and then partially closing it by a filler strip, such as shown at 4; that is, the filler strip is so positioned that an inner central passage is formed for the rod B and the remaining portion of the channel is closed by the filler strip, which also produces a projecting rib to increase the gripping powers of the operator.

Both practical and manufacturing problems have thus been improved and a simple, substantial and rugged structure is at the same time obtained, the handle being furthermore strengthened as two pieces of wood are required to produce a structure of this character, and it is also strengthened by the end ferrules 7 and 8, the end ferrule 7 being of particular importance as it serves as a bearing member for the loop-shaped member 6. (See Fig. 4.)

While certain features of the present invention are more of less specifically illustrated, I wish it understod that various changes in form and proportion may be resorted to within the scope of the appended claims. I similarly wish it understood that the materials and finish of the several parts employed may be such as the experience and judgment of the manufacturer may dictate or various uses may demand.

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

1. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, a rod lying in the channel, a strip forming a filler for the channel and retaining the rod against removal, and means for securing the strip.

2. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, a rod lying in the channel, and a filler strip secured in the channel and extending slightly beyond the exterior surface of the rod to form a longitudinal rib thereon.

3. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, said handle being cylindrical in cross-section, a rod lying in the channel, a filler strip secured in the channel and extending from end to end thereof, said filler strip retaining the rod against removal but permitting free turning and reciprocal movement thereof, and said filler strip extending slightly beyond the cylindrical surface of the handle to form a longitudinal rib thereon.

4. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, said handle being cylindrical in cross-section, a rod lying in the channel, a filler strip secured in the channel and extending from end to end thereof, said filler strip retaining the rod against removal but permitting free turning and reciprocal movement thereof, and said filler strip extending slightly beyond the cylindrical surface of the handle to form a longitudinal rib thereon, a ferrule on each end of the handle and securing the filler strip against removal, and a loop-shaped member extending through one of the ferrules and the filler strip and pivotally mounted therein.

5. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, a rod lying in the channel and reciprocally and turnably mounted therein, a strip forming a filler for the channel and retaining the rod against removal, said strip extending from end to end of the handle, means for securing the strip against removal, a turning handle on the upper end of the rod and a mop holder on the lower end of the rod.

6. In a mop of the character described, an elongated handle member, said handle having a channel formed therein extending from end to end, a rod lying in the channel and reciprocally and turnably mounted therein, a strip forming a filler for the channel and retaining the rod against removal, said strip extending from end to end of the handle, means for securing the strip against removal, a turning handle on the upper end of the rod, a mop holder on the lower end of the rod, a loop shaped member extending through the lower end of the handle, and a mop cloth passing through said loop and secured to the mop holder.

DONALD WINTERS.