July 29, 1924.

1,503,062

F. W. PENDERGAST

MOP

Filed May 31, 1923

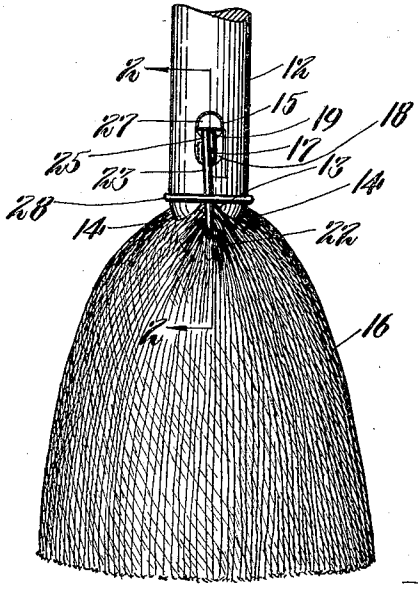


Fig. 1.

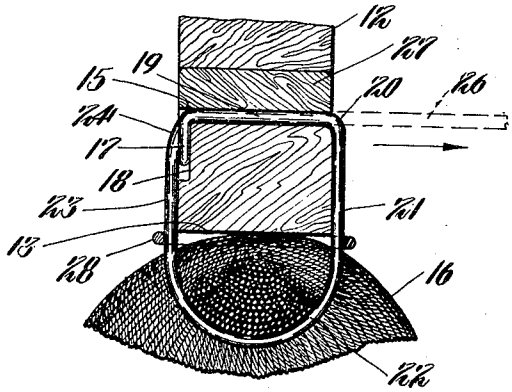


Fig. 2.

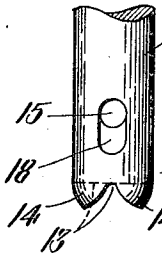


Fig. 4.

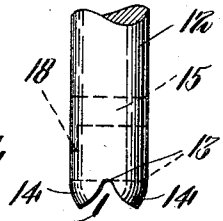


Fig. 5.

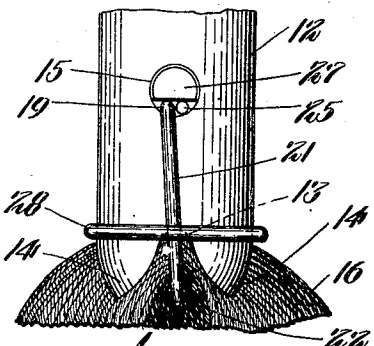


Fig. 3.

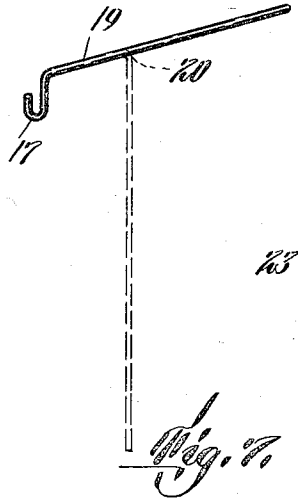


Fig. 7.

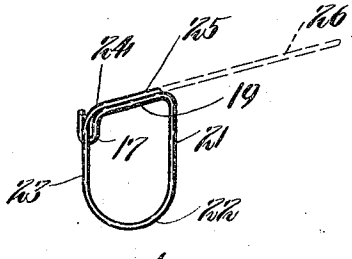


Fig. 8.

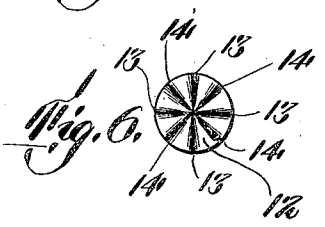


Fig. 6.

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UNITED STATES PATENT OFFICE.

FREDERICK W. PENDERGAST, OF CAMBRIDGE, MASSACHUSETTS; GRACE T. PENDERGAST ADMINISTRATRIX OF SAID FREDERICK W. PENDERGAST, DECEASED.

MOP.

Application filed May 31, 1923. Serial No. 642,497.

To all whom it may concern:

Be it known that I, FREDERICK W. PENDERGAST, a citizen of the United States, residing at Cambridge, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Mops, of which the following is a specification.

This invention relates to a mop comprising a rod or handle, and a mop body composed of a bunch of threads, bound against the inner end of the handle by a flexible wire rod engaged at its end portions with the rod and at its central portion with the mop body.

The object of the invention is to provide a durable and inexpensive mop, the wire member of which is adapted to be put under tension during the operation of assembling the members or parts, and to firmly bind the mop threads against the inner end of the body.

The object is attained by the improved construction hereinafter described and claimed.

Of the acompanying drawings forming a part of this specification,—

Figure 1 is a side view of a mop embodying the invention.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a view of the opposite side.

Figures 4 and 5 are side views of the notched inner end portion of the handle.

Figure 6 is an end view looking toward the notched end.

Figures 7 and 8 are perspective views of the wire member, Figure 7 showing it before, and Figure 8 after its completion.

The same reference characters indicate the same parts in all the figures.

In the drawings, 12 represents the handle, which may be of any desired length, and is preferably a cylindrical wooden rod. The inner end of the handle is notched, preferably by forming two intersecting transverse V-shaped notches therein, as shown by Figures 4, 5 and 6, in which 13, 13 represent the bottoms of the intersecting notches. This operation forms four pointed spurs 14 on the end of the handle, so that a mop body composed of the threads clamped against the notched end is securely confined on the handle.

The handle is transversely bored to form an orifice 15 adjacent to and spaced from the notched end.

The mop body 16 is composed of a bunch of textile threads or strands of any desired size and material, cotton being preferred. The threads are laid across the notched end of the handle and their central portions are pressed into the said grooves.

I provide mop body confining means including a flexible wire rod, one end of which is bent to form a hook-shaped reinforcing head 17. While the main portion of the wire is straight, I insert it in the orifice 15 until the head 17 bears on one side of the handle at one end of the orifice, the handle being preferably provided with a recess 18 (Figure 2), receiving said head. The portion 19 of the wire located in the orifice is a member of an inner neck portion. The rod is then bent at 20 (Figure 7) and extended along one side of the wire to form a side portion 21 of a loop which includes an outer neck portion 22 extending across the notched end of the handle, and another side portion 23 extending along the opposite side of the handle to and across the head 17. The rod is bent at 24, above its intersection with the head, and extended into the orifice 15 to form another inner neck portion 25, beside the neck portion 19. The length of the rod is such that it has an end portion 26 opposite that on which the head 17 is formed, said end portion projecting from the handle as shown by dotted lines in Figure 2, far enough to be grasped by pincers and pulled in the direction indicated by the arrow in Figure 2, to exert tension on the looped portion, and thus cause the outer neck portion 22 to clamp the mop threads firmly against the notched end of the handle. The bearing of the head 17 against the handle enables the desired tension to be exerted on the looped portion.

A plug 27 of wood or other suitable material is then driven into the orifice 15, to confine the inner neck portions therein and maintain the tension on the loop portion. The end portion 26 is then cut off close to the handle.

The head 17 supports the inward pressure of the side portion 23, and prevents liability of splitting the handle below the orifice 15.

The side portions 21 and 23 may be con-

fined against the handle by a metal ring 28, of such diameter that it may be forced down upon the handle and upon the side portions, and held in contact with the side portions by friction.

I claim:

1. A mop comprising a handle having a notched inner end and a transverse orifice spaced above said end; a mop body composed of a bunch of mop threads, the central portions of which are laid across the notched end of the handle; and mop-body confining means including a flexible wire rod having a hooked reinforcing head formed from one end of the wire and bearing on one side of the handle, two inner neck portions extending through the orifice, and a loop composed of two side portions extending beside the handle and an outer neck portion connecting the side portions and extending across the notched end of the handle, to confine the threads against said notched end, one of said side portions bearing on said reinforcing head, the looped portion being maintained under tension, and the head reinforcing the handle at one end of said orifice, and supporting the pressure of a portion of said rod.

2. A mop comprising a handle having a notched inner end and a transverse orifice spaced above said end; a mop body composed of a bunch of mop threads, the central portions of which are laid across the notched end of the handle; and mop-body confining means including a flexible wire rod having a hooked reinforcing head formed from one end of the wire and bearing on one side of the handle, two inner neck portions extending through the orifices, and a loop composed of two side portions extending beside the handle and an outer neck portion connecting the side portions and extending across the notched end of the handle, to confine the threads against said notched end, one of said side portions bearing on said reinforcing head, the looped portion being maintained under tension, and the head reinforcing the handle at one end of said orifice, and supporting the pressure of a portion of said rod, and securing means for said inner neck portions.

3. A mop substantially as specified by claim 2, said securing means being a plug inserted in the said orifice, said inner neck portions and plug maintaining the loop portion under tension.

4. A mop substantially as specified by claim 1, the notched end of the handle being formed by cutting intersecting V-shaped grooves therein, so that the said inner end has a plurality of thread-engaging spurs.

5. A mop substantially as specified by claim 1, comprising also a confining ring surrounding a portion of the handle and confining said side portions against the handle.

6. A mop substantially as specified by claim 1, the said handle being provided with a head-receiving recess at one end of said orifice.

In testimony whereof I have affixed my signature.

his
FREDERICK W. × PENDERGAST.
mark

Witnesses:
CHARLES F. BROWN,
GRACE T. PENDERGAST.