F. W. PENDERGAST.

MOP.

APPLICATION FILED JUNE 14, 1921.

1,427,627. Patented Aug. 29, 1922.

FIG. 4.

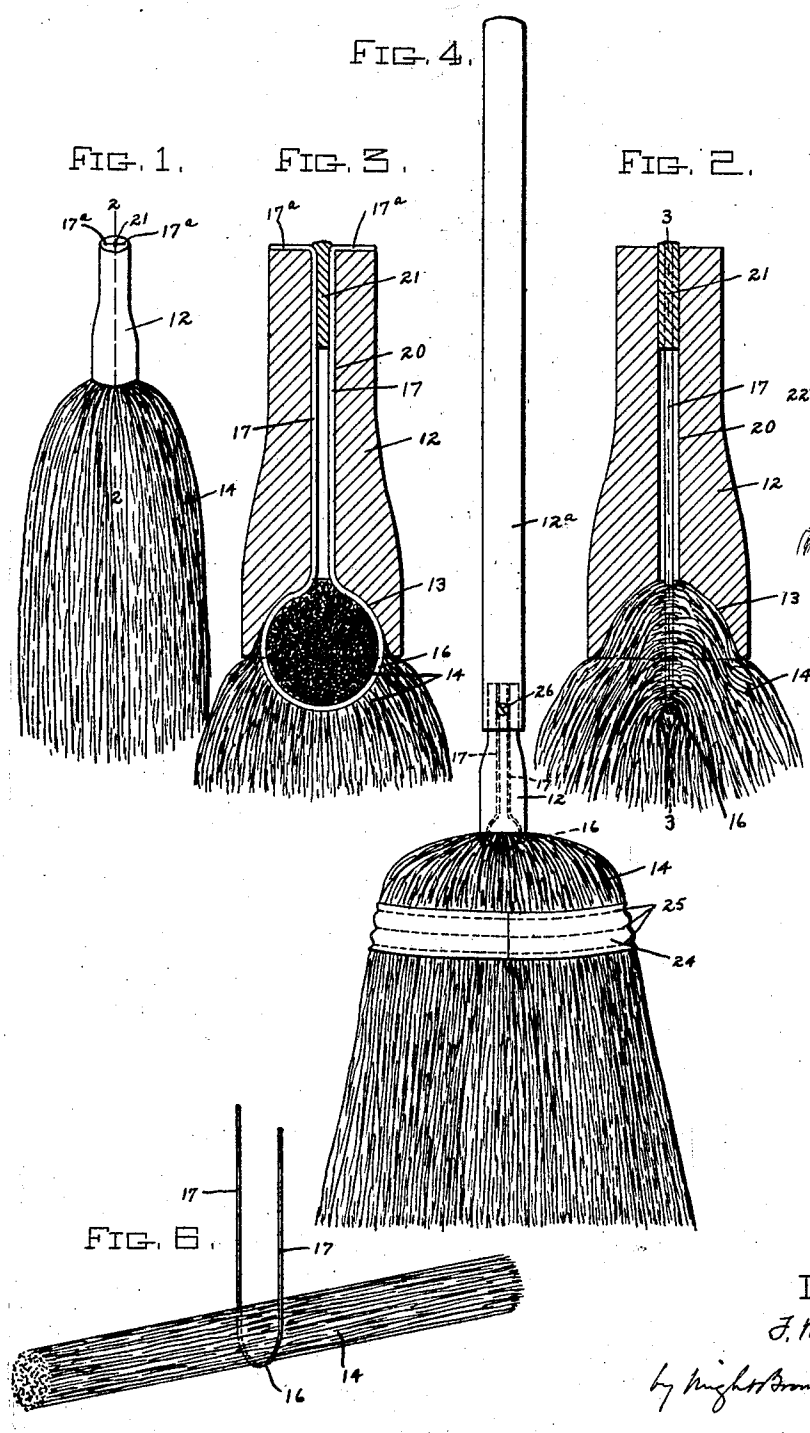


FIG. 1.

FIG. 3.

FIG. 2.

FIG. 7.

FIG. 5.

FIG. 6.

INVENTOR

F. W. Pendergast

by Wright Brown Quinby & May

ATTORNEYS

UNITED STATES PATENT OFFICE.

FREDERICK W. PENDERGAST, OF CAMBRIDGE, MASSACHUSETTS.

MOP.

1,427,627. Specification of Letters Patent. Patented Aug. 29, 1922.

Application filed June 14, 1921. Serial No. 477,369.

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 composed of a handle having a cavity in its inner end and a bundle of mop filaments arranged side by side, the central or mid-length portion of the bundle being drawn into said cavity and clamped therein, so that the major portions of the filaments depend loosely from the inner end of the handle and form the acting portion of the mop.

The chief object of the invention is to provide improved means for clamping the central portion of the bundle in the handle cavity.

The invention is embodied in the improvements which I will now proceed to describe and claim.

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

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

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

Figure 3—3 is a section on line 3—3 of Figure 2.

Figure 4 is a side view; and

Figure 5 an edge view, showing the acting portion of the mop flattened.

Figure 6 is a perspective view, showing the bundle of filaments and the wire binder hereinafter described, as first assembled.

Figure 7 is a view similar to Figure 3, showing a modification.

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

In the drawings, 12 represents a one piece wooden handle having its inner end cupped to form a cavity 13. 14 represents a bundle of mop filaments, such as lengths of cotton yarn arranged side by side. To secure the bundle 14 to the handle, I employ a flexible wire binder, the central or neck portion 16 of which forms a loop embracing the central portion of the bundle 14. The end portions 17 of the binder extend from the cavity 13 to the exterior of the handle under tension, and are anchored to the handle to confine the neck portion and the central portion of the bundle in said cavity. The major portions of the mop filaments depend loosely from the handle and form the acting portion of the mop, said portions diverging from the secured central portions and being so distributed that they conceal the neck portion of the binder.

I prefer to anchor the end portions 17 by inserting them in a longitudinal passage 20, bored in the handle and extending from the cavity to the outer end of the handle, and driving a plug 21 into said bore, the plug closely fitting the bore and securely confining the end portions 17. Said end portions may be extended to engage suitable means for exerting a pulling strain thereon, to draw the loop and the central portion of the bundle into the cavity 13, before the plug is inserted, and cause the loop to tightly compress the said central portion, the extended portions being held by said instrumentality until the plug is inserted, and then cut off from the outer end of the handle at such distance as to form ears 17^a, which are bent in opposite directions and seated on the said outer end. The end portions 17 may be inserted in a V-shaped passage formed by two oppositely inclined bores 22 extending from the cavity to opposite sides of the handle, and their outer ends may be twisted together upon the external surface of the handle, as indicated at 17^b (Figure 7).

When the bundle and the binder are first assembled, the binder is U-shaped, as shown by Figure 6, the neck portion 16 being given a substantially circular form by the operation of drawing the central portion of the bundle into the cavity. The end portions 17 of the wire binder are maintained under tension by their described engagement with the handle, and confine the neck portion 16 and the central portion of the bundle in the cavity 13.

Figures 4 and 5 show the acting portion of the mop flattened and maintained in a flattened form, by applying a bridle 24, composed of a strip of cloth embracing the acting portion near the handle, and secured by stitches 25 passing through the side portions of the bridle, and through the intermediate mop material.

When a relatively long handle is desirable, a handle section or extension 12^a may be secured to the handle 12, as shown by Figure 4, said extension having a socket in which the outer end portion of the handle 12 is secured, as by a screw 26.

I claim:

1. A mop comprising a one piece handle having a cavity in its inner end and bored to form a passage extending from the bottom of the cavity to the exterior of the handle at a distance from the socket, a bundle of mop filaments arranged side by side, and a flexible wire binder including a neck portion bent to form a loop, embracing the central portion of said bundle, and end portions extending from the cavity through said passage to the exterior of the handle and bent outside the handle to engage the external surface of the latter and anchor the binder to the handle, said end portions being under tension and confining the neck portion and the central portion of the bundle in the cavity.

2. A mop comprising a one piece handle having a cavity in its inner end and bored to form a longitudinal passage extending from the bottom of the cavity to the outer end of the handle, a bundle of mop filaments arranged side by side, a flexible wire binder including a neck portion bent to form a loop embracing the central portion of said bundle and end portions extending from the cavity through said passage and bent to form oppositely projecting ears seated on the outer end of the handle, and a plug driven into the passage between said end portions to confine the binder with its ears seated on the outer end of the handle, said end portions being under tension and confining the neck portion and the central portion of the bundle in the cavity.

In testimony whereof I have affixed my signature.

his
FREDERICK W. × PENDERGAST.
mark

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