

1,281,883.

Patented Oct. 15, 1918.

Fig. 2.

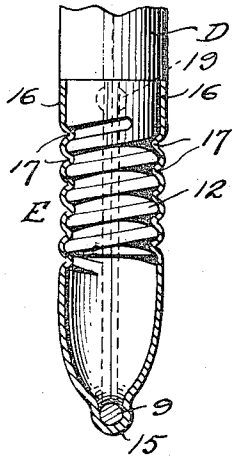


Fig. 1.

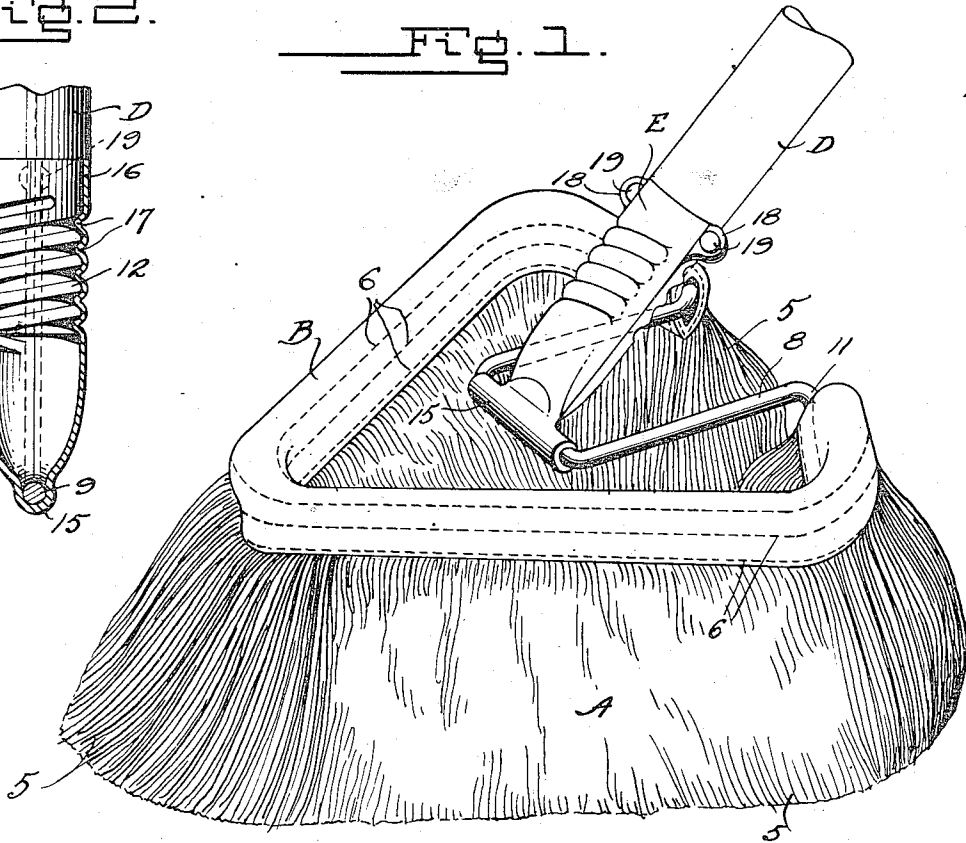


Fig. 3.

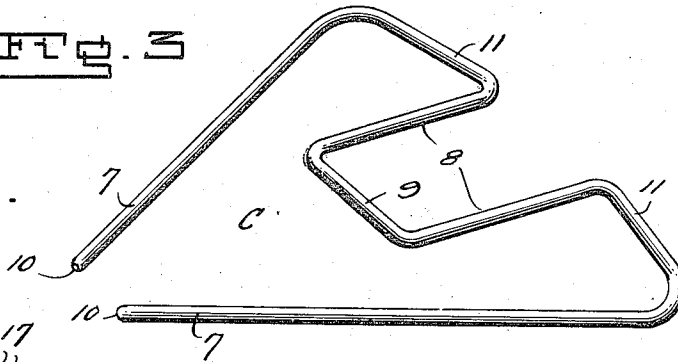
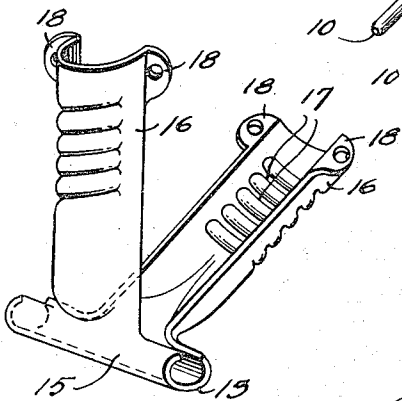


Fig. 4.



Inventor
Franklin P. Toof
By Lancaster and Allwine
His Attorneys

UNITED STATES PATENT OFFICE.

FRANKLIN P. TOOF, OF PADUCAH, KENTUCKY.

MOP.

1,281,883.

Specification of Letters Patent.

Patented Oct. 15, 1918.

Application filed April 17, 1916. Serial No. 91,769.

To all whom it may concern:

Be it known that I, FRANKLIN P. TOOF, a citizen of the United States, and a resident of Paducah, in the county of McCracken and State of Kentucky, have invented a new and useful Improvement in Mops, of which the following is a specification.

My present invention relates to mops embodying a handle, a metallic frame pivotally carried by said handle, and a swatch, shaped and positioned for use by said frame.

The principal object of my invention is to provide a mop of the character described embodying a metallic frame so shaped that the swatches may be quickly placed into or removed from operative relation to the frame, enabling the user to cleanse a swatch at any time and to use a plurality of swatches in succeeding relation, such as for cleaning floors, applying polish oil thereto, and finally rubbing in the oil, for giving gloss to the floor, a single frame serving to support said swatches, avoiding the use of clamps or other retainers.

Other objects of my invention are to provide a mop of the character described embodying a coupling for the swatch frame and handle which is simple in construction and adapted to pivotally connect the removable handle with said frame, in such a manner that the user may position or move the swatch without danger of casual lateral displacement of the swatch with respect to the handle; and, to provide a mop embodying a frame in combination with a coupling, the connection between the two being such that there is little or no danger of the operator marring furniture, no wooden or metallic elements of the mop being exposed laterally of the mop adjacent the floor.

Further objects of the invention will appear in the following detailed description, taken in connection with the accompanying drawing, forming a part of this specification, and in which drawing:

Figure 1 is a perspective view of a mop constructed according to my invention, a portion of the handle being broken away and removed.

Fig. 2 is a vertical sectional view through a coupling constructed according to my invention, a portion of the swatch frame being shown in section and the lower portion of the handle in elevation.

Fig. 3 is a perspective view of the swatch frame.

Fig. 4 is a perspective view of said coupling, with complementary parts in spaced relation, to disclose details.

In the drawing, where similar characters refer to similar parts throughout the views, A designates a swatch, including a sheath B; C a frame for said swatch; D a handle; and, E a coupling between frame C and handle D.

Referring first to the swatch, it is made up of a large number of fibers, such as spun cotton, secured to a sheath B of flexible material, such as cloth, the fiber extending between plies of the sheath, with stitching passing therethrough, so as to form a body with all of the fiber rigidly attached, and providing a swatch which is flexible and durable.

As to the frame C, as clearly shown in Fig. 3 of the drawing, it is of polygonal shape including spaced end portions and an offset, lying within the plane of the frame, and including a cross-section disposed substantially midway of the extremities of the end portions, and the angular portions from which offset portion extends.

While I have herein shown the frame C as of substantially triangular shape with its end portions converging toward but in spaced relation at the vertex, and its base portion provided with the U-shaped offset projecting toward the end portions, it is to be understood that I am not to be limited to this specific shape, except in so far as the terms of the claims import, such shape having been found well adapted for practical use where it is found desirable to cover a large area, with a minimum amount of fiber.

The handle D is preferably provided with screw threads at its end portion for engagement with the coupling E which, in the present example, is formed of a single elongated piece of sheet metal, with an enlargement intermediate its ends, such enlargement being bent to form a cylinder, adapted to embrace the said cross-section of offset, forming a part of frame C. Portions extending from enlargement are bent longitudinally to an arcuate cross section, as is clearly shown in Fig. 4, and may be provided with screw threads, formed by pressing the metal inwardly, one section being complementary to the other section, to form a socket for receiving the screw

threaded end portion of handle D. Each portion 16 may be provided with perforated ears 18, remote from the enlargement 13, the ears of one portion abutting against the ears of the other portion, and adapted to receive rivets 19, as shown in Fig. 1, preventing casual separation of said portions from operative relation, forming a socket.

When applying the swatch to its frame, one end portion of the sheath B is passed upon one of the end portions 7 of the frame, and forced thereupon until it passes around one of the angles of the polygonal frame. The other end portion of the sheath is then similarly placed, so that the end portions 7 and their extremities 10 are inclosed within the sheath, and the base sections 11 of the frame are also covered. If it is desired to remove the swatch, this can be accomplished by grasping the handle D, coupling E or offset 8 of the frame, and pulling upon the angular portion of the sheath B which covers the extremities 10. Very little pull is necessary to accomplish this, the operator merely hooking the index finger about such angular portion of the sheath.

It is to be observed that the cylindrical portion 15 of the coupling E firmly embraces the cross-section 9 of offset 8, so that the swatch and swatch frame is permitted to swing about a transverse axis but is held firmly against a lateral swinging axis. Because of the pivotal connection of the handle with the frame, falling within the plane of the frame, and substantially midway of the front and back of the latter, the mop is well adapted for use in the cleaning of ceilings, walls, etc., and if it is desired to clean ledges, such as plate rails, the frame C may be swung with respect to handle D so that the latter engages the under portion of sheath B at its angular portion about the extremities 10 of frame C, where it will be held firmly for such cleaning.

Changes in details may be made without departing from the spirit or scope of my invention; but,

I claim:

1. A mop comprising in combination, a handle, a frame formed of a single piece of metal, pivotally carried thereby and embodying spaced free end portions, and a swatch including a sheath into which said frame extends with the said free end portions inclosed.

2. A mop comprising in combination, a handle, a frame formed of a single piece of

metal and embodying spaced-apart end portions, means pivotally connecting said handle with said frame intermediate the end portions of the latter, and a swatch including a sheath into which said frame extends

3. A mop comprising in combination, a handle, a polygonal frame including an offset projecting inwardly of itself with a cross-section substantially midway of opposite sections of said frame, a swatch including a sheath about said frame and extending around angles thereof, and means for pivotally connecting said handle with said frame at the said cross-section of the said offset thereof.

4. A mop comprising in combination, a handle, a polygonal frame embodying spaced end portions and an offset intermediate its ends extending toward said end portions and including a cross-section disposed substantially midway of the extremities of said end portions and the opposite portion of said frame from which said offset extends, a swatch including a sheath about said frame and extending around angles thereof, and means for pivotally connecting said handle with said frame, at the said cross-section of the said offset thereof.

5. In a mop, the combination of a frame formed of a single piece of metal and embodying spaced end portions, and a swatch including a sheath open at opposite ends and into which said spaced end portions of the frame extend with the said end portions inclosed.

6. In a mop, the combination of a polygonal frame having spaced end portions, and a swatch including a sheath open at opposite ends and into which said end portions of the frame extend with the said end portions inclosed, said sheath extending around angles of the frame.

7. A mop comprising in combination, a handle, a frame formed of a single piece of metal carried upon the handle and having spaced free end portions, and a swatch including a channeled sheath open at opposite ends and into which said free ends of the frame extend.

8. A device of the class described, comprising a continuous metal strip bent to form an outer and an inner rim, the outer rim having open ends adapted to be threaded into a mop band, and a handle attaching ferrule hinged to the inner rim.

FRANKLIN P. TOOF.