Sept. 18, 1928. 1,684,379

J. I. ANDERSON

MOP

Filed Jan. 18, 1927

FIG. 1

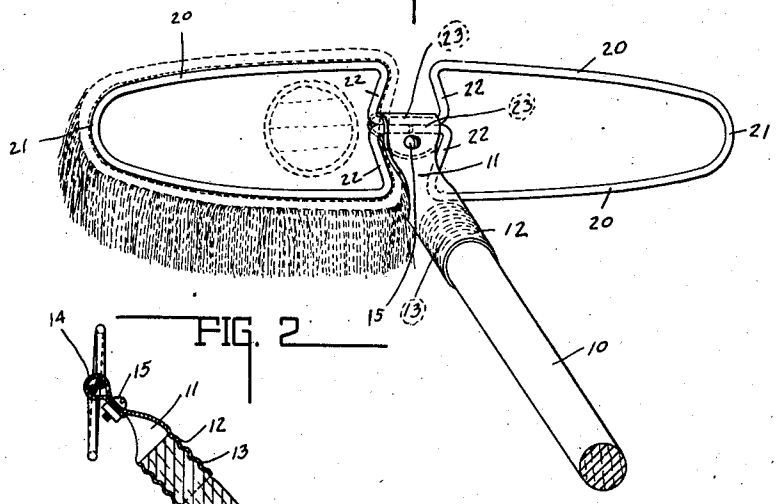


FIG. 2

FIG. 3

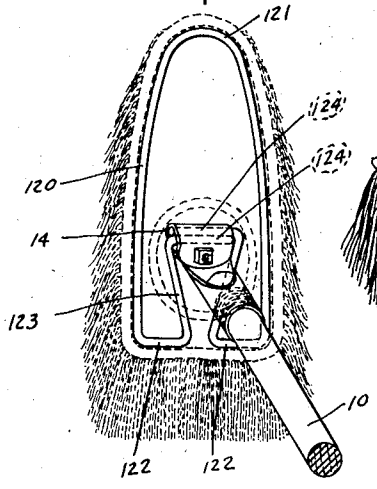
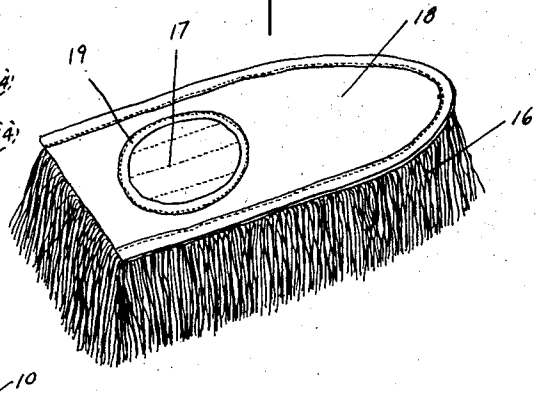


FIG. 4



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MOP.

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This invention relates to a mop for dusting, cleaning or the like.

One of the chief objects of the invention is to provide a mop which is capable of projection into relatively inaccessible places for cleaning the same and which has the advantage of having the mop head detachably associated with the frame supporting the same.

Another object of the invention is to construct the mop of but a minimum number of parts.

One feature of the invention consists in the formation of several relatively different types of mops, all of which have a common characteristic, and all of which are adapted to employ substantially the same mop fabric or swab or a plurality of mop fabrics or swabs and interchangeably support the same.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims:

In the drawings Fig. 1 is a perspective view of a multiple wing mop, one mop head being shown mounted thereon and by the dotted lines. Fig. 2 is a transverse sectional view taken through the frame support and supporting handle. Fig. 3 is a perspective view of a modified and simpler form of the invention with the mop head mounted thereon and indicated by dotted lines. Fig. 4 is a perspective view of one form of mop head which is receivable by either one of the mop frames illustrated.

In the drawings 10 indicates a handle, 11 a sheet of metal rolled into ferrule formation 12 at one end to receive the end of the handle and secured thereto by suitable means such as the screw threading indicated at 13. The opposite end of the metal strip 11 is curled upon itself to form a tubular pivotal support 14 and the edges thereof are suitably secured together as by the bolt and nut means 15 or other equivalent means. The aforesaid mounting is employed in either type of the invention.

In Fig. 4 there is illustrated a triangular or a substantially semi-elliptical swab including the mop body of fringe or fibre 16 suitably secured to a backing 17, and superimposed thereon is another backing 18, the same forming a pocket therebetween. Backing 18 is provided near its non-pointed end with an opening 19 through which the mop frame is inserted and when inserted is retained by expanding within the pocket, the frame being of resilient character.

In Fig. 1 there is illustrated a plurality, and herein a pair, of mop frames substantially identical. Each frame is substantially triangular or more nearly semi-elliptical and these are arranged in substantially full elliptical formation and lie in the same plane.

Herein both frames illustrated are shown formed from a single piece of wire and have considerable resiliency or flexibility by reason of the formation thereof. 20 indicates the side portions, 21 a pointed or curved end and 22 the base portion which is formed by a pair of inwardly extending portions which extend from the side portions 20 towards each other. Extending angularly thereof at 23 are portions which constitute the pivot for the frame, and in Fig. 1 the portions 23 lie adjacent each other and are receivable by the tubular portion 14. It will be apparent from an examination of Figs. 1 and 4 that a pair of swabs such as shown in Fig. 4, are receivable by the multiple frame to form a multiple head mop.

In Fig. 3 the mop handle and member 11 support a spring frame including the curved end 121, the curved sides 120 and the inward extensions 122, the ends of which extend angularly as at 123 of said ends and lie parallel to each other as at 124 and within the pivot forming sleeve 14. In both types of mop frames the spring frame ends terminate within the tubular sleeve and are retained thereby, and with both types of mop frames the mop head is mounted by first positioning the end 21 or 121 into the pocket through the opening 19 and thereafter one rear corner of the frame is passed into the pocket and then the other one is worked into the pocket. Upon passage of the second corner into the pocket the frame expands and assumes the shape shown in Fig. 1.

The production advantages of the foregoing construction in addition to the commercial advantages, obvious from an inspection of the mop, are that but a single type of mop head is required, a single type of handle is required, a single type of connection is required and but a single die will satisfactorily serve for bending the wire into the semi-elliptical form. The only difference in the manufacture of both types of mop heads is in the length of wire required and in the formation

of slightly different ends to obtain the several similar mountings illustrated.

The invention claimed is:

1. A mop frame including a wire arranged in two portions semi-elliptical outline with the side portions as continuations of each other, the free ends of the sides extending inwardly therefrom towards each other, and lateral extensions thereof terminating adjacent each other and constituting a single pivot substantially in the plane of the elliptical frame for pivotally supporting the same.

2. A mop frame including a wire forming a pair of spaced wings, each wing being semi-elliptical in outline with the point and sides continuations of each other and the ends thereof extending inwardly towards each other, being continuations and embodying an intermediate portion lying substantially in the major axis of the ellipse, and in the plane thereof, the other side members similarly formed with the ends of the wire terminating immediately adjacent the intermediate portion of the first side member for forming a relatively closed multiple wing frame and a single pivotal support and anchorage.

3. A device as defined by claim 1 characterized by the addition of a support for the frame comprising a metal strip having one end arranged in substantially complete ferrule formation to be received by and be secured to the end of a handle, the other end of said metal strip being doubled back upon itself and secured in tubular formation with its axis transverse of the ferrule axis and terminating short of the ferrule, said tubular formation receiving the single pivot of the frame.

In witness whereof, I have hereunto affixed my signature.

JESSE I. ANDERSON.