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FLOOR MOP

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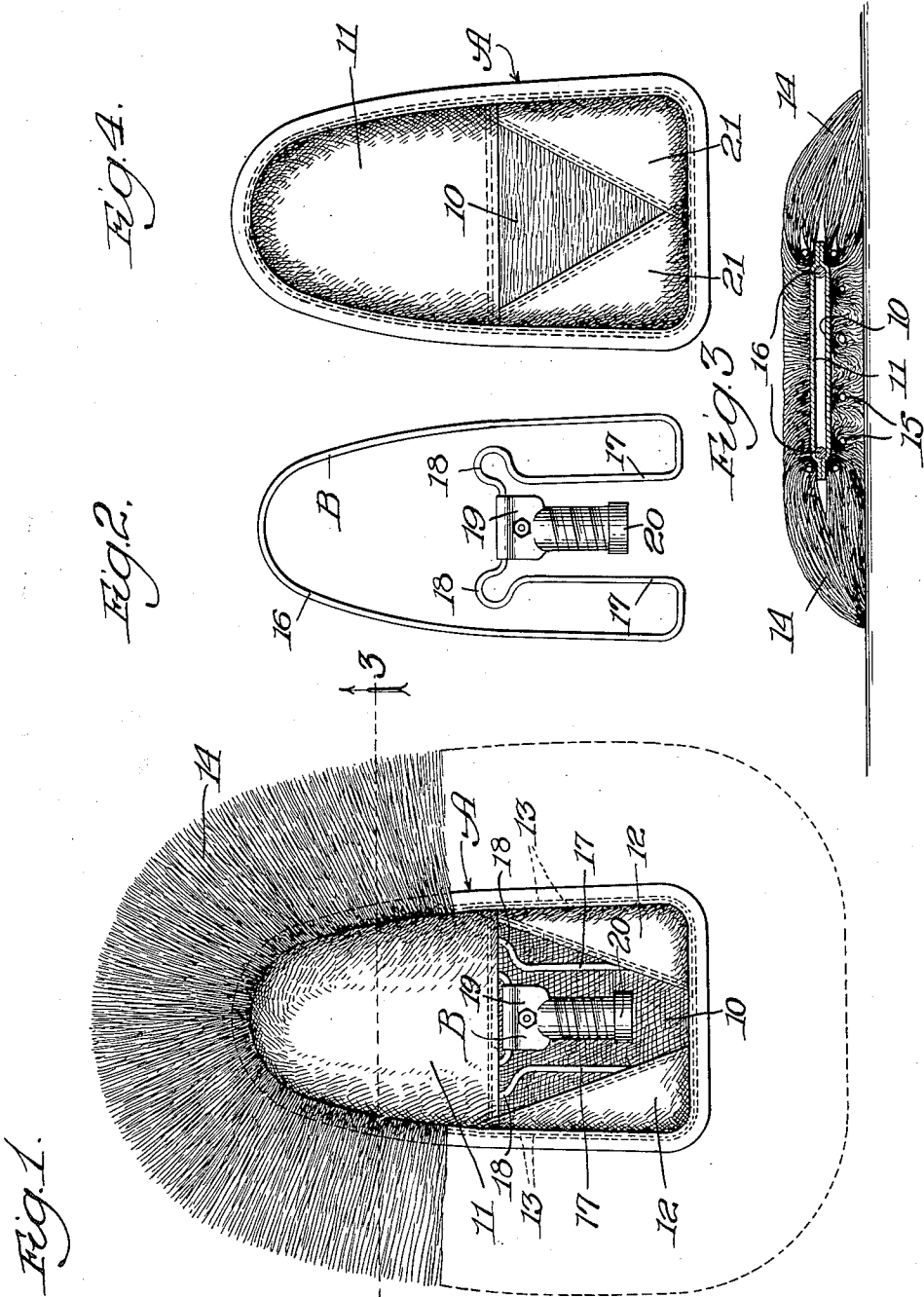


Fig. 1.

Fig. 2.

Fig. 4.

Fig. 3.

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## UNITED STATES PATENT OFFICE

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## FLOOR MOP

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3 Claims. (Cl. 15—229)

This invention relates to a floor mop and more particularly to a type of floor mop in which the mop head or frame may be disengaged from the mop swab.

5 An object of the invention is to provide a mop in which the head securely grips the swab and in which the head may be readily disengaged from or inserted into the swab pockets. A further object is to provide a swab which is adapted  
10 to be used as a hand swab, the pockets of the swab serving as a glove for the hand, when the mop head is not in place. Other specific objects and advantages will appear as the specification proceeds.

15 The invention is illustrated, in a preferred embodiment, by the accompanying drawing, in which—

Figure 1 is a plan view of a mop embodying my invention; Fig. 2, a plan view of the mop head; Fig. 3, a sectional view, the section being taken as indicated at line 3 of Fig. 1; and Fig. 4, a plan view of a modified form of swab embodying my invention.

In the illustration given, A designates a swab; and B, a head or frame adapted to be received within the pockets of swab A.

The swab A preferably comprises a bottom fabric wall 10 having a toe piece 11 secured to its forward edge portion and having heel pieces 12 secured across its rear corner portions. The toe piece 11 and heel pieces 12 are secured to the edge portions of the bottom wall 10 by stitches 13. The mop cords 14 are secured to the swab fabric by stitches 15 in the usual manner.

20 The mop head B comprises a wire body bent in the form illustrated providing a toe portion 16 and two heel portions 17. The ends of the wire after forming forwardly extending ears or loops 18 are secured within the clamp 19 which is integrally formed with the handle-receiving portion 20. With the construction illustrated, it will be noted that the heel portions 17 may be drawn inwardly to narrow the rear portion of the frame.

#### Operation

45 When it is desired to insert the head B within the pockets of the swab A, the toe portion 16 of head B is pressed forward into contact with the pocket formed by the toe piece 11 so as to snugly fill the pocket. The heel parts 17 may then be sprung toward each other to enable them to be received within the pockets formed by heel pieces 12. If desired, one of the heel parts 17 may be first slipped into position and then the other heel part slipped into position. The spring of the metal causes the portions 17 to expand against the walls of the heel pockets. At the

same time, the extension of the heel pieces 12 forwardly below the toe pieces 11 serves to conceal the sides of the metal frame B. It will also be observed that the forwardly extending loops or ears 18 extend under the toe piece 11 and engage the toe piece when the frame B is lifted. At the same time, the handle clamp 19 is free to swing upon its pivot without contact with the toe piece 11.

When it is desired to remove the head B, this is accomplished by springing the heels 17 inwardly so as to permit first one and then the other of the heels 17 to clear the heel pockets. The head may then be drawn rearwardly to remove the toe portion 16 from the toe pocket.

When it is desired to use the swab without the head B and as a hand swab, the head B may be removed and the hand thrust forward into the glove-like toe pocket.

In the modified form shown in Fig. 4, the bottom wall 10 and toe piece 11 are the same as shown in Fig. 1. The heel pieces 21, however, extend toward the center and overlap a short distance. The overlap is free so that the heels of the head B may be inserted first into the pocket on the right and then into the pocket on the left.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A swab comprising: an elongated fabric wall, a fabric toe piece extending across the forward portion of said wall and secured to the edge portion thereof, and fabric heel pieces extending across the rear corners of said wall and secured to the edge portions of said wall forwardly below said toe piece.

2. A swab comprising: an elongated fabric wall, a fabric toe piece extending over the forward portion of said wall and secured to the edges thereof, a pair of separate fabric heel pieces extending over the rear corners of said wall and secured to the edges thereof, a portion of one heel piece secured to the rear edge of said wall overlapping a similar portion of the other heel piece.

3. A mop comprising: an elongated fabric wall, a fabric toe piece extending over the forward portion of said wall and secured to the edge portions thereof, heel pieces extending across the rear corners of said wall and tautly secured to the edges thereof, said heel pieces at their forward ends and said toe piece at its rear side being in overlapping relation.

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