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W. J. DENNIS

2,088,777

SQUEEGEE

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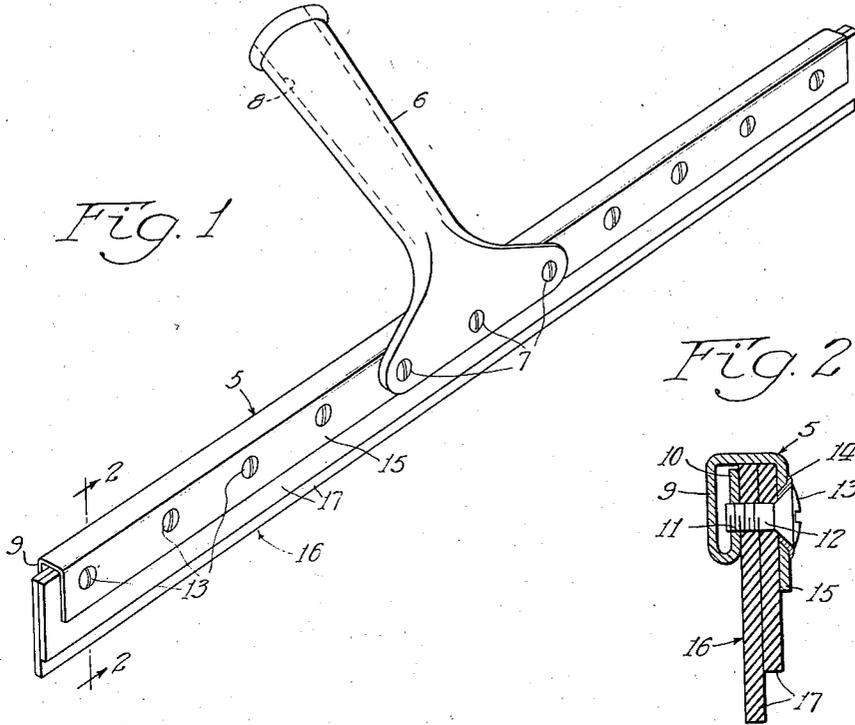


Fig. 1

Fig. 2

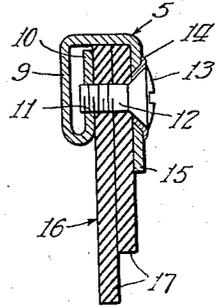


Fig. 3

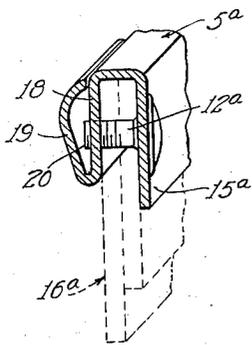
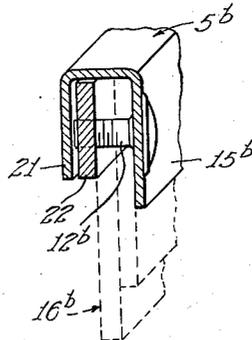


Fig. 4



Witness:
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UNITED STATES PATENT OFFICE

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SQUEEGEE

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6 Claims. (Cl. 15—245)

This invention relates to squeegees, and particularly to portable hand operated devices adapted for use on windows, floors, walls, etc.

In the use of squeegees of the character described, it is the customary practice, after wiping a section of window or the like, to wipe off the edge of the blade or wiping element and adjacent portions of the holder with a sponge, chamois or the like, and frequently, portions of the securing means employed for securing the wiping element to the holder protrude beyond the body of the holder, thus, causing damage by slitting and tearing of the sponge or chamois.

One object of the present invention, therefore, is to provide a device of the character described wherein the exposed ends or rough portions of the securing means are covered to prevent contact therewith of a sponge, chamois or the like, employed for wiping the squeegee.

Another object of the invention is to provide a squeegee wherein the wiping element is removable and may be readily replaced with another, which may be conveniently secured to the holder by screws, and wherein any exposed ends of the screw-threaded portions of the screws are covered to protect a sponge, chamois or the like, from damage by contact therewith.

Another object of the invention is to provide a squeegee of the character described wherein the covering or protecting means is formed integrally with the holder.

Another object of the invention is to provide a squeegee wherein the wiping element holder thereof is so constructed as to resist lateral strains and bending effects tending to distort the holder and wiping element from its straight line position.

A further object of the invention is to provide a squeegee wherein the clamping member for the wiping element and the covering or protecting means are formed integrally with the holder.

A still further object of the invention is to improve devices of the character described in sundry details hereinafter referred to and particularly pointed out in the appended claims.

Illustrative embodiments of the present invention are shown in the accompanying drawing, in which

Fig. 1 is a perspective view of an improved squeegee embodying features of the present invention.

Fig. 2 is a transverse sectional elevation taken substantially as indicated by the line 2—2 of Fig. 1.

Fig. 3 is a sectional perspective view of a modified construction embodying features of the present invention, and

Fig. 4 is a sectional perspective view of a further modification of the present invention.

Referring to Figs. 1 and 2 of the drawing, the embodiment of the present invention illustrated therein comprises a channel-shaped holder indicated as a whole by the numeral 5 having a handle 6 secured thereto by means of screws 7, or the like, and having a socket 8 formed therein adapted to receive an extension stick or bar (not shown) for extending the length of the handle.

As clearly illustrated in Fig. 2 the holder 5 is of substantially channel-shaped form having one of the wall portions 9 of the holder bent inwardly and backwardly upon itself in a manner to form a clamping member 10 having a plurality of screw-threaded apertures 11 formed therein, adapted to receive threaded securing means shown in the present instance as screws 12, the heads 13 of which are adapted to engage washers 14 positioned in tapered apertures formed in the wall portion 15 of the holder, the shank portion of the screws 12 being adapted to extend through a wiping element 16 shown in the present instance as comprising a plurality of plies 17 formed of suitable material such as rubber, or the like, and by reason of the engagement of the screw-threaded shank portions of the screws 12 with the screw-threaded apertures 11 of the clamping member 10, means are provided for securing the wiping element 16 to the holder. It will be noted that by such an arrangement, and particularly by reason of the relative position of the wall portion 9 of the holder and the clamping member 10, the threaded end portions of the screws 12 extending through the clamping member 10, are completely covered by the wall portion 9, thereby preventing contact with the screw-threaded ends of the screws 12, of a sponge, chamois, or other material used in wiping water from the wiping element 16 and adjacent portions of the squeegee.

In the construction shown in Fig. 3, the holder 5a is of substantially channel-shaped construction having wall portions 18 and 15a, between which is intended to be positioned a wiping element 16a as shown in dotted lines, the wall portion 18 having screw-threaded apertures formed therein adapted to receive the screws indicated at 12a for clamping the wiping element securely to the holder, the wall portion 18 of the structure shown in Fig. 3 serving as the clamping member. In the structure shown in Fig. 3 the

wall portion 18 is bent outwardly and backwardly upon itself to provide a protector 19 adapted to cover the otherwise exposed ends 20 of the screw-threaded portion of the screws 12a.

5 The modified construction shown in Fig. 4 comprises a holder 5b of channel-shaped form having side walls 21 and 15b and having a separate clamping member or strip 22 positioned in the channel of the holder, the said strip 22 10 having screw-threaded apertures formed therein to receive the threaded shank portion of screws 12b for clamping the wiping element 16b between the member 22 and wall portion 15b of the holder, the wall portion 21 in the structure 15 shown in Fig. 4 being provided for covering the exposed threaded end portion of the screws 12b in the manner and for the purpose similar to that described with reference to the structure shown in Figs. 2 and 3.

20 It will be observed from the foregoing description that the present invention provides a structure wherein a sponge, chamois, or the like, used for wiping water from the squeegee is protected against contact with the exposed 25 threaded end portions of the screws, thereby protecting the sponge or chamois against damage from contact therewith.

Obviously, the present invention is not limited to the precise construction and arrangement 30 shown and described, as the same may be variously modified without departing from the spirit and scope of the invention as set forth in the appended claims.

What I claim and desire to cover by Letters 35 Patent, is:

1. A squeegee comprising a wiping element, a holder therefor, a clamping member engageable with said wiping element, securing means operatively related to and extending through said 40 clamping member and holder for securing the wiping element thereto, and protecting means carried by said holder adjacent one edge thereof and adjacent said clamping member for covering the end of said securing means extending 45 through said clamping member.

2. A squeegee comprising a wiping element, a holder therefor, a clamping member formed integrally with said holder and engageable with said wiping element, a plurality of screw- 50 threaded securing means operatively related to said clamping member and holder for securing said wiping element therebetween, and protect-

ing means formed integrally with said holder adjacent one edge thereof for covering the screw-threaded ends of said securing means adjacent said one edge of the holder.

3. A squeegee comprising an elongated wiping 5 element, an elongated channel-shaped holder therefor, an elongated clamping member formed integrally with said holder and engageable with said wiping element, a plurality of securing 10 means operatively related to said clamping member and holder for securing a wiping element between the clamping member and a portion of said holder, and protecting means formed integrally with said holder adjacent one side thereof for covering the end of said securing means 15 adjacent said one side of the holder.

4. A squeegee comprising an elongated wiping 20 element, an elongated channel-shaped holder therefor, one wall portion of said channel providing an elongated clamping member engage- 25 able with said wiping element, a plurality of screw-threaded securing means operatively related to said clamping member and another portion of the holder for securing the wiping element therebetween, said holder having an in- 25 tegral portion folded outwardly and backwardly upon said wall portion along a longitudinal line adjacent one edge thereof to provide a covering for the screw-threaded ends of said securing 30 means.

5. A squeegee comprising an elongated wiping 35 element, an elongated channel-shaped holder therefor, one wall portion of said channel being folded inwardly and backwardly upon itself to provide an elongated clamping member engage- 40 able with said wiping element, a plurality of screw-threaded securing means operatively related to said member for securing said wiping element between the member and said holder, 40 said securing means extending through the other wall of the channel and through said clamping member and terminating short of the wall on which said member is formed.

6. A squeegee comprising an elongated wiping 45 element, an elongated channel-shaped holder therefor, an elongated clamping member in said channel and extending longitudinally thereof, securing means engageable with the holder and 50 clamping member for securing the wiping element therebetween, one end of said securing means terminating within said channel.

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