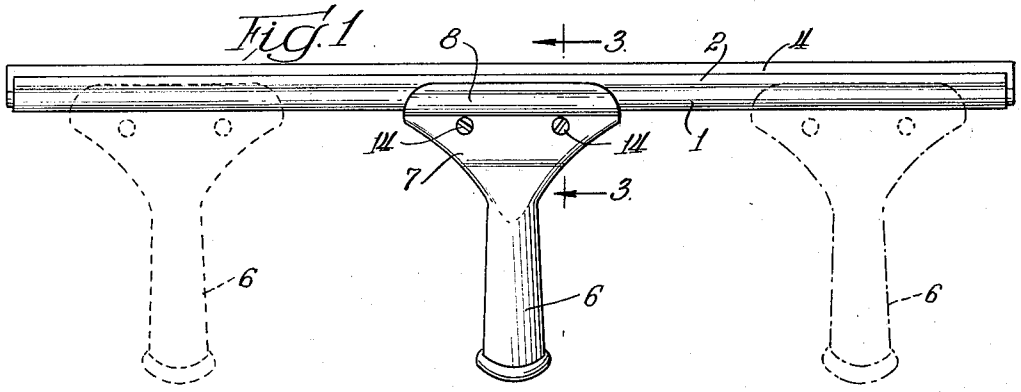
Sept. 29, 1959 A. V. WARD 2,905,960

SQUEEGEE

Filed Oct. 12, 1953

Fig. 1



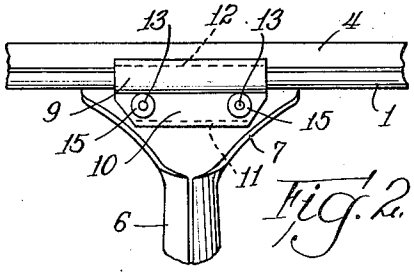


Fig. 2.

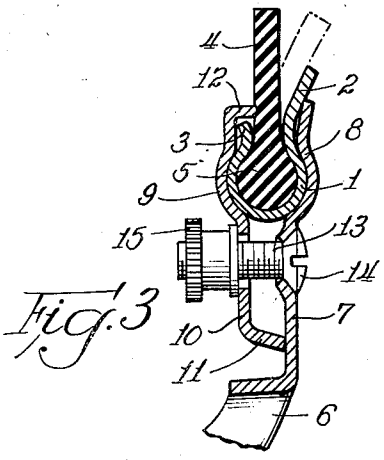


Fig. 3

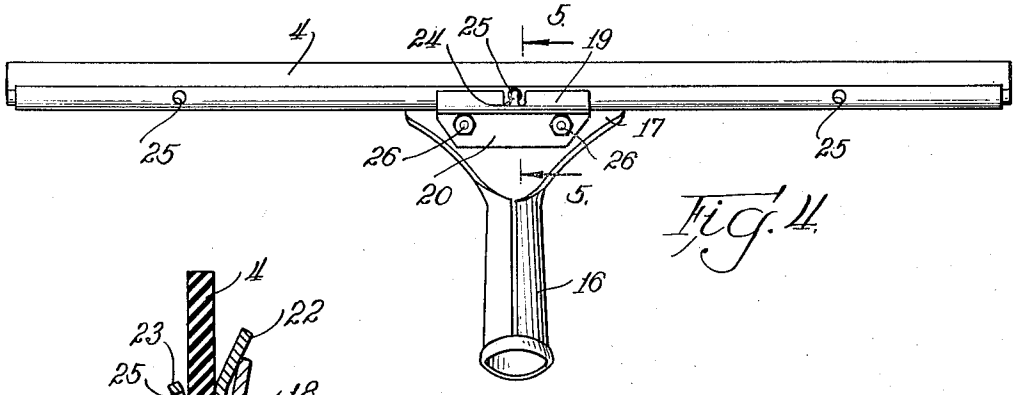


Fig. 4.

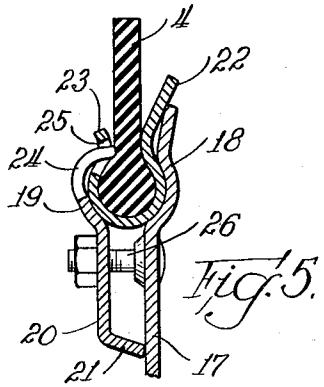


Fig. 5.

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SQUEEGEE

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Application October 12, 1953, Serial No. 385,491

1 Claim. (Cl. 15—245)

My invention belongs to that general class of devices known as squeegees or wipers for wiping water off of windows or similar glass surfaces or walls, floors and other places where it is desired to remove excess water and initially dry or partially dry the surface to be squeegeed.

The invention has among its objects a simple, inexpensive, convenient, efficient, durable squeegee having an adjustable flexible wiping element such as rubber, rubber composition or the like.

A further object is the production of a squeegee of the kind described having a head member providing a handle and suitable means for clamping the squeegee parts together.

It has particularly as an object a squeegee on which the wiping element and holder therefor may adjusted lengthwise on the head so as to project at either side of the head without liability of the flexible wiping element dropping out at either end from the channel or holder in which the same is arranged.

A further object is the construction of a squeegee in which the channel for the flexible wiping element is provided with a lip for limiting flexing of the wiping element and blade in one direction.

Another object is the production of a head and clamping member in which the wiping element is positively engaged to prevent its sliding in the channel in which the same is mounted.

The invention also has as an object the production of a head and clamping member which will firmly hold the wiping element and its channel or holding member against displacement and yet permit the adjustment of the wiping element and channel lengthwise on the head.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts:

Fig. 1 is a view in elevation of a non-elected form of squeegee illustrating in dotted lines the lengthwise adjustment of the wiping element on the head;

Fig. 2 is a view in elevation of the opposite side of the head and clamping member showing only a portion of the wiping element and its holding channel;

Fig. 3 is a sectional view taken substantially on the line 3—3 of Fig. 1;

Fig. 4 is a view in elevation similar to Fig. 1 showing the preferred arrangement for adjustably securing the channel and wiping element in place; and

Fig. 5 is a sectional view taken substantially on line 5—5 of Fig. 4.

Referring to the drawing, 1 represents an elongated channel or blade holding member provided with a lip or extension 2 at one side and with a shorter lip 3 at the

opposite side, the channel member 1 being substantially U-shaped and bent or formed to engage the head of bead 5 on a flexible blade 4 of suitable material. The blade 4 with its bead 5 may be made of suitable material, preferably rubber or rubber composition, or the equivalent.

The squeegee is provided with a handle member 6 which, if desired, may be made tubular so as to engage with the end of an extended handle (not shown) should such extended handle be desired. The head is indicated by the characters 7 and 8, the portion 8 being formed to closely embrace and fit the member 1. There is also provided the clamping member 9, also formed to fit member 1 and extended as at 10 and 11 to engage with the head 7 as most clearly shown in Fig. 3. It will be noted by referring to this figure that the clamping member is provided with an extending portion 12 of a length to engage with the blade 4. The head 7 and clamping member 9 are detachably secured together by bolts 13 provided with a suitable head for engaging the head portion 7 and with a nut or its equivalent 15 which engages with the face of the clamping member 9.

When it is desired to adjust the holding member or channel 1 and wiping element or blade 4 in the head, the nuts 14 may be partially loosened and the channel 1 and blade moved or adjusted lengthwise in the head, after which the parts may be clamped together. Due to the extension 12 engaging with the blade 4, the blade will not readily slide lengthwise or become displaced in the channel 1. In using the squeegee, the blade 4 may be flexed until it engages with the portion 2 of the head which tends to stiffen the blade and prevent undue flexing.

The preferred construction shown in Figs. 4 and 5 differs from that shown in Figs. 1, 2 and 3 in that the channel member 22, corresponding to 1 in Fig. 3, has its leg 23 provided with the desired number of openings or holes 25 through which may project a prong 24 on the clamping member 19. Clamping member 19 is extended as at 20 and 21 (see Fig. 4) similar to the clamping member shown in Fig. 3. With this form of the device the bolts 26 may be loosened and the channel and blade shifted lengthwise and when the bolts are tightened, the prong 24 engages with the blade 4 and locks the blade and channel against movement. It may be mentioned that there may be any number of holes or openings 25 in the channel member to provide the desired number of possible adjustments. With this construction, the prong 24 engages the wiping element 4, similar to the engagement of the wiping element by the member 12 shown in Fig. 3.

By constructing the device with the adjustable channel and its wiping blade it is possible to use the squeegee under conditions where it might be inconvenient to use a squeegee with a non-adjustable blade or wiping element. Ordinarily the head and clamping member, as well as the channel enclosing the wiping elements, are made of stampings, but of course the same may be made of cast metal parts. However, the stampings provide an inexpensive, light-weight holder for the blade and are therefore preferred.

One difficulty often met with in devices of this kind is the tendency of the wiping blade to slide out of the holder after it has been in use for some time. The blade sometimes creeps in and if pulled out frequently appears to shrink and be loose in the holder. If metal clips (not shown) are put on the ends of the blade they are found to be unsatisfactory and in addition add to the number of parts in the device which parts may become lost or mislaid. In my device such clips are not used and all holding is by the clamping member direct as it should be.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the

same without departing from the spirit of my invention, hence, I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

A squeegee comprising an elongated transversely flexible wiping element formed with a bead along one edge, an elongated substantially U-shaped holder member therefor constructed to embrace the wiping element and having one edge extended to provide means for limiting the flexing of the wiping element, a handle member provided with a head conforming to the side and closed edge of the holding member, a cooperating clamping member formed to engage both the holder member and the wiping element, said channel member formed with an opening, said clamping member including a prong formed to extend through the aforesaid opening for engaging the wiping element and for affixing the wiping element with respect to the channel member as the channel member is affixed to the handle member.

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