June 3, 1930. W. F. PELTON 1,761,582

HAND OR FINGER GRIP

Filed March 2, 1928

Fig. 1,

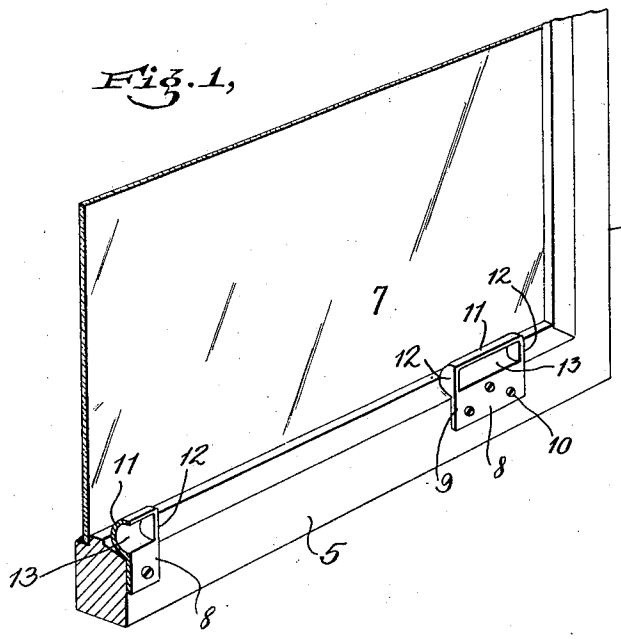


Fig. 2,

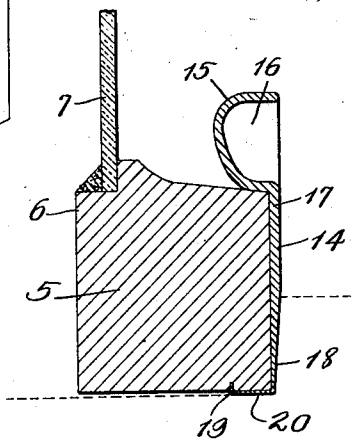


Fig. 4,

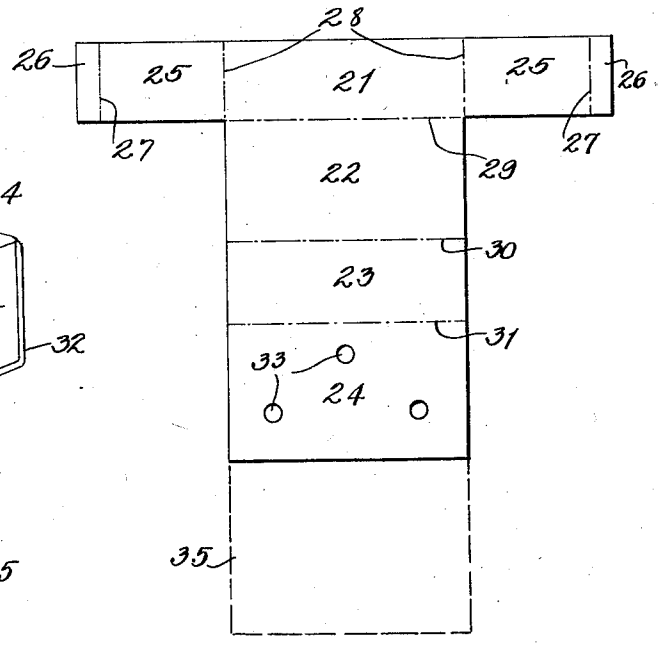
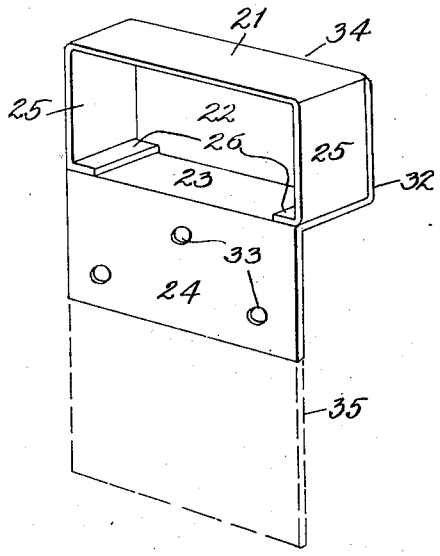


Fig. 3,



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Patented June 3, 1930 1,761,582

UNITED STATES PATENT OFFICE

WILLIAM F. PELTON, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO FRANK S. GILDEA, OF BROOKLYN, NEW YORK

HAND OR FINGER GRIP

Application filed March 2, 1928. Serial No. 258,465.

This invention relates to hand or finger grips and particularly to devices of this class for use in connection with the lower sash of windows; and the object of the invention is to provide a device of the class specified, which will eliminate the necessity of mortising or otherwise cutting out the window sash frame as is customary with other devices of this class and which further will be contained substantially within the boundaries of the sash frame so as not to interfere with screen frames, shades and the like; a further object being to provide a device of the class specified which may be quickly and easily attached to the frame and detachably supported in connection therewith to facilitate the cleaning or painting of the sash frame or the cleaning of the window panel in the frame; a still further object being to provide a device of the class specified which may be fashioned from a single sheet metal blank folded into the desired form; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a perspective view of a part of a window sash showing one form of my invention.

Fig. 2 is a transverse, sectional view of another form of device which I employ.

Fig. 3 is a perspective view of another modified form of device; and,

Fig. 4 is a plan view of a blank from which the device shown in Fig. 3 is formed.

In Figs. 1 and 2 of the drawing, 5 represents the lower rail of the frame of a window sash 6, in which a glass panel 7 is supported. In Fig. 1, I have shown two of my improved hand or finger grips 8 consisting in the construction shown of stamped, forged or cast bodies comprising an attaching plate part 9 having a number of screw holes through which screws 10 are passed in securing the device to the inner face of the rail 5. At the upper end of the plate 9 is an outwardly, upwardly and inwardly curved hood portion 11 having end walls 12 forming a substantially box-shaped extension, the opening 13 of which is directed inwardly. This opening is adapted to receive the fingers of a hand to facilitate the raising and lowering of the sash 6.

The construction shown in Fig. 1 eliminates the necessity of mortising out or otherwise recessing the lower rail 5 of the sash frame to receive devices of this kind as is the common practice, which practice in addition to being costly and requiring the work of a skilled mechanic also tends to weaken the rail and in most forms of devices, the projecting lip or flange of the finger piece extends a material distance inwardly beyond the inner face of the rail 5, and thus comes in contact with screens, shades and other window accessories. With my improved construction, however, the devices 8 are in substantial alinement with and project only slightly beyond the inner faces of the rails 5 and the hood portions 11 are arranged above the top face of the rail 5 and in the space formed in the sash frame between the inner face of the rail 5 and the corresponding face of the window panel 7.

In Fig. 2 of the drawing, I have shown a slight modification wherein a device 14 is provided with a hood portion 15 similar to the hood 11 and including end walls 16. But, in this construction, the attaching plate portion 17 is extended, but preferably may be comparatively thin at its lower end 18 and is adapted to be bent around the lower rail corner of the frame 5, and may be provided at its ends with prongs 19 which may be driven into the lower face of the rail 5, the extension 18 extending along the bottom face of the rail 5 as seen at 20. With this construction, the use of screws or other attaching devices may be eliminated and the device 14 may be held in place by the prong end, secured in the manner described, the hood portion 15 resting upon the upper face

of the rail 5 forming a clamp like structure. With a device of this kind, the same may be readily removed at will for the cleaning of the window or the rails of the sash whenever desired. It will be understood that the length of the extension 18 may be such as to compensate for average sizes in the depth of the lower rails of window sashes, and said extension may be bent over at any desired point in fitting the device 14 to sash rails of various sizes.

In Fig. 4 of the drawing, I have shown a sheet metal blank consisting of four elongated, rectangular body portions 21, 22, 23 and 24. The body portion 21 has laterally directed extensions 25 having flanged ends 26 foldable angularly with reference to the parts 25 on the lines 27, the parts 25 being angular with reference to the part 21 on the lines 28, whereas the parts 21, 22, 23 and 24 are foldable angularly with reference to each other on the lines 29, 30 and 31. When the device is completely folded, a hand or finger piece such as shown at 32, Fig. 3 of the drawing is formed. The part 24 of the blank forms the attaching plate of the device, the same having screw hole apertures 33. The part 23 forms a bottom wall of the hood portion 34 of the device, the part 22 the back wall of said hood portion, the part 21 the top wall, and the extensions 25 the side walls. The flanges 26 are foldable inwardly upon the bottom wall 23 and may be secured thereto by riveting, welding or in any other desired manner. It will also be understood that the attaching plate 24 may extend as indicated in dotted lines 35, Figs. 3 and 4 to permit of the attachment of the device in the manner shown in Fig. 2, in which event, the screw holes 33 will not be employed.

It will be understood that my invention is not necessarily limited to any specific cross sectional form of the device herein shown and described nor to the specific means of attachment thereof or manner of constructing the same, and various other changes in and modifications of the construction herein set out may be made within the scope of the appended claim, without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

A finger grip for window sash rails comprising a finger receiving portion adapted to be arranged above and extend inwardly beyond the inner face of the rail, and an attaching plate part extending from one side of the first named part and adapted to be arranged on the inner face of said rail, said first named part comprising a hood portion, the inner face of which is in alinement with the corresponding face of the attaching plate.

In testimony that I claim the foregoing as my invention I have signed my name this 27th day of February, 1928.

WILLIAM F. PELTON.