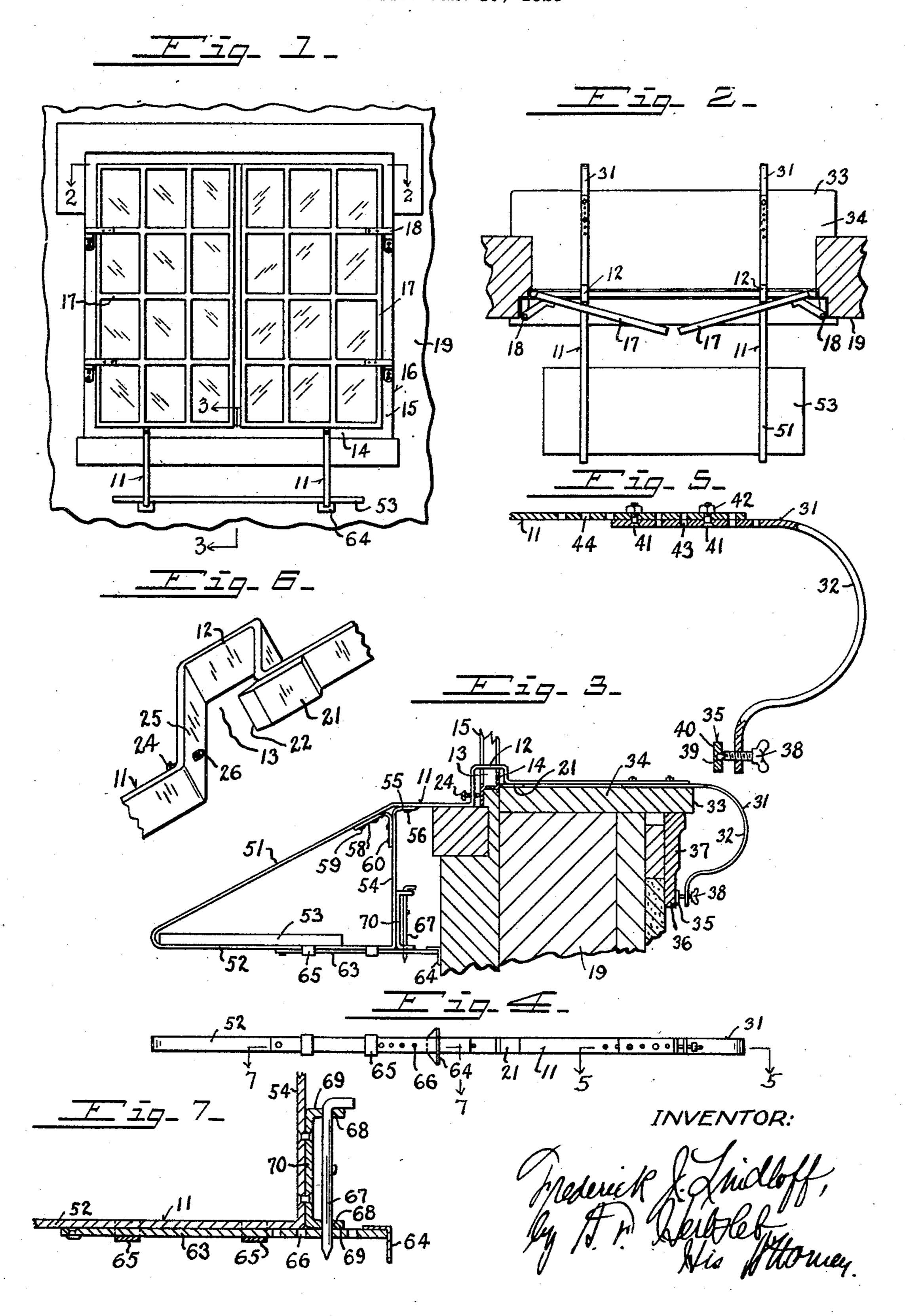
## WINDOW WORKER'S SCAFFOLD

Filed Jan. 10, 1929



## UNITED STATES PATENT OFFICE

## WINDOW-WORKER'S SCAFFOLD

Application filed January 10, 1929. Serial No. 331,427.

My invention relates to window workers' scaffolds, and is intended for use by glaziers, painters, iron workers, window cleaners and others, who find it necessary to perform work 5 on the outsides of windows, and is especially applicable in connection with metal windows, and particularly in connection with casement windows in which the sashes are

hinged so as to swing outwardly. 10 It is the practice in the building trades to build metal casement windows into the wall of the building, and to glaze the sashes, paint the windows and perform other operations upon the same, after the metal casement win-15 dows are in the wall. This necessitates work upon the outer faces of the windows, and, as the sashes swing outwardly, the outer faces of the windows are accessible only from the outside of the building. It has been the usual 20 practice heretofore to perform the work upon the outsides of such windows from scaffolds which are suspended by ropes from the cornice of the building, which has been found

25 work on windows of high buildings. It is the object of my invention to avoid these objections, and to provide a convenient support at the outside of the wall at the window, so that a workman may be readily 30 and safely supported at the outside of the window while performing work upon the window.

to be expensive and dangerous, especially in

35 for a scaffold board, and simple and convenient means for securing the support at means whereby the parts may be adjusted the bar 11 to the cross-member. for convenient location upon walls of different thicknesses and in situations where casements are differently placed in the window openings.

The invention will be further readily understood from the following description and claims, and from the drawings, in which latter:

Fig. 1 is an outside side elevation showing my improved device in position of use, the 50 wall being partly broken away.

Fig. 2 is a plan section of the same, taken on the line 2—2 of Fig. 1.

Fig. 3 is a vertical section of the same, taken on the line 3—3 of Fig. 1, the windowsash being omitted.

Fig. 4 is a bottom view of my improved device.

Fig. 5 is a fragmentary section of my improved device, taken on the line 5—5 of Fig. 4.

Fig. 6 is a perspective view of a detail 60 of the same; and,

Fig. 7 is a fragmentary section of my improved device, taken on the line 7—7 of Fig. 4.

My improved device comprises a bar 11, 65 in which there is an upward bulge 12, forming a lower recess 13, for receiving the lower cross-member 14 of the frame 15 of a metal casement 16, to which frame, the sashes 17 are hinged, as by means of hinges 18 so as 70 to swing outwardly with relation to the wall 19 of the building.

The bar is provided with a contact-part 21 at one side of said recess for contacting the lower cross-member 14. This contact- 75 part is preferably provided with a sharp contact-edge 22, for instance, a knife edge, which is arranged to gouge into the crossmember for locating the contact-part on the cross-member. A clamp-screw 24 has thread- 80 ed connection in the wall 25 of the bulge 12, the inner end of the clamp-screw being ar-It is the object of my invention further ranged to be clamped against the outer face to provide a simple and convenient support of the cross-member. The inner end of the clamp-screw is preferably provided with a 85 sharp end 26, arranged to gouge into the the sill of the window, and to provide novel cross-member. These means rigidly secure

> A bar-extension 31 is provided for the go inner end of the bar. This bar extension is provided with an outward bulge 32, arranged to be received about the inner portion 33 of the window sill 34. The lower end of the bar extension is provided with an adjustable 95 stop 35 arranged to bear upon the inner face 36 of the wall, for instance, upon the finish piece 37. The stop is preferably in the form of a screw 38 having threaded connection with the lower end of the bar-extension, and 100

having swivel connection 39 with a contactplate 40, arranged to contact said inner face.

The bar-extension is adjustable on the inner end of the bar by means of screws 41 and 5 nuts 42, the screws being received through nuts 42, the screws being received through shown of triangular form, the scaffold-board reselective ones of registering holes 43, 44, the being located in the loop formed by the triholes in the bar-extension being arranged to register with selective holes in the inner end of the bar, the screws and nuts clamping the bar-extension and bar rigidly together in adjusted positions. The bar-extension is adjustable lengthwise of the bar for accommowall of the building. The hanger 54, which dating different thicknesses of wall and different relations between the casement and the 15 inner face of the wall.

The outer end of the bar has a downwardly inclined outwardly extending portion 51, and is so formed and located as not to interfrom the outer end of which a supporting fere with the movements of the workman. portion 52 of the bar extends toward the This structure also locates the scaffoldan wall of the building. This support is ar- board in a low position with relation to the 85; ranged to support a scaffold-board 53. The sill, for minimizing tilting strain on the fassupport is preferably substantially lower tening means, and for placing the scaffoldthan the portion of the bar which is received board in such position that the workman may crosswise of the window-sill so as to mate- readily work upon the lower as well as the 25 rially decrease the tilting strain upon the upper portions of the window. The structure 903 bar and the securing means between the bar, also permits the workman to be seated on the the cross-member of the casing and between scaffold-board, with his legs hanging bethe bar-extension and the inner face of the tween the scaffold-board and the wall. wall.

The bar is continued upwardly from the inner end of the supporting portion 52 thereof as a hanger-bar 54, the upper end of which 35 the bar by a rivet 56. An acute angle member 58 may also be located in the acute angle between the downwardly outwardly slanting portion 51 of the bar and the hanger portion 54 thereof. The angle member is riveted re-40 spectively to said bar portions by rivets 59, 60.

A brace 63 is provided for bracing the scaffold-board support against the wall of the building. This brace is shown at the lower end of the scaffold. It is shown as a bar pro-45 vided with a shoe 64 at its inner end, arthe wall and forming a stop for the outer portion of the scaffold. The brace is adjustfrom the bar-portion 52 and forming loops short bar 70 suitably fixed to said hanger-60 poriton.

The distance between the horizontal planes from said bulge. in which the bulge 12 and the stop 64 are located is substantially greater than the distance between the vertical planes in which said bulge and the inner end of said stop co-

acting with the outer face of the wall of the building are located, for minimizing tilting of the device in use.

The support for the scaffold-board is angle, there being one of these supports at each side of the window. The supporting stretch 52 on which the scaffold-board is locorresponds to the other angle of the triangle, extends parallel with said wall. The bar portion 51, whose position corresponds to the 80 hypotenuse of the triangle, serves as a hanger

The bar portions of the device are preferably made of bar iron.

My improved device is strong and substantial. It is economically manufactured, is secured to the bar 11, as by being provided is readily and conveniently attached to and with an angularly bent portion 55 secured to detached from the building, and enables the workman to work upon the outside of the 100 window casement while the sashes are substantially closed.

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

1. A device of the character described comprising a sill-bar, said sill-bar provided with an upward bulge at its outer portion, said sill-bar having an inwardly extending portion and an outwardly extending portion re- 110 ranged to be supported by the outer face of spectively extending inwardly and outwardly from said bulge, said outwardly extending portion of said sill-bar being lower than said able lengthwise of the supporting portion 52, inwardly extending portion thereof, a goug-50 as by being slidable in straps 65 depending ing knife-edge at the inner portion of said 115 bulge, a clamp at the outer portion of said about the brace. The brace is exemplified as bulge, said gouging knife-edge and said clamp an iron bar. It is provided with holes 66, in acting in opposite directions, a depending which a pin 67 is selectively received for posi-support depending from said outwardly extioning the brace with relation to the scaf- tending portion of said sill-bar, a depend- 120 fold-board support. The pin is axially mov- ing clamp depending from said inwardly exable in holes 68 in flanges 69, extending from tending portion of said sill-bar, and means the hanger-portion 54, for instance, from a between said depending clamp and said inwardly extending portion of said sill-bar for adjusting said depending clamp toward and 125

> 2. A device of the character described comprising a sill-bar, the outer portion of said sill-bar provided with an upward bulge, said sill-bar having an inwardly extending por- 130

957

tion extending inwardly from said bulge and an outwardly extending portion extending outwardly from said bulge, said inwardly extending portion provided with an outwardly acting gouging knife-edge, the outer wall of said bulge extending lower than said gouging knife-edge, adjustable clamping means in said outer wall below the level of said gouging knife-edge, said gouging knife-edge and said clamping means acting in opposite directions, a support for a scaffold-board depending from the outer end of said sill-bar, an adjustable stop acting inwardly at the lower edge of said support, the distance between 15 the horizontal planes in which said bulge and said stop are located being greater than the distance between the vertical planes in which said bulge and the inner end of said stop are located, and clamping means at the inner end 20 of said inwardly extending portion of said sill-bar.

In testimony whereof, I have hereunto signed my name.

FREDERICK J. LINDLOFF.

25

30

35

40

45

50

55

60