E. W. COOPER.

WINDOW CLEANER'S SCAFFOLD.

APPLICATION FILED DEC. 14, 1912.

1,083,192. Patented Dec. 30, 1913.

Fig. 1.

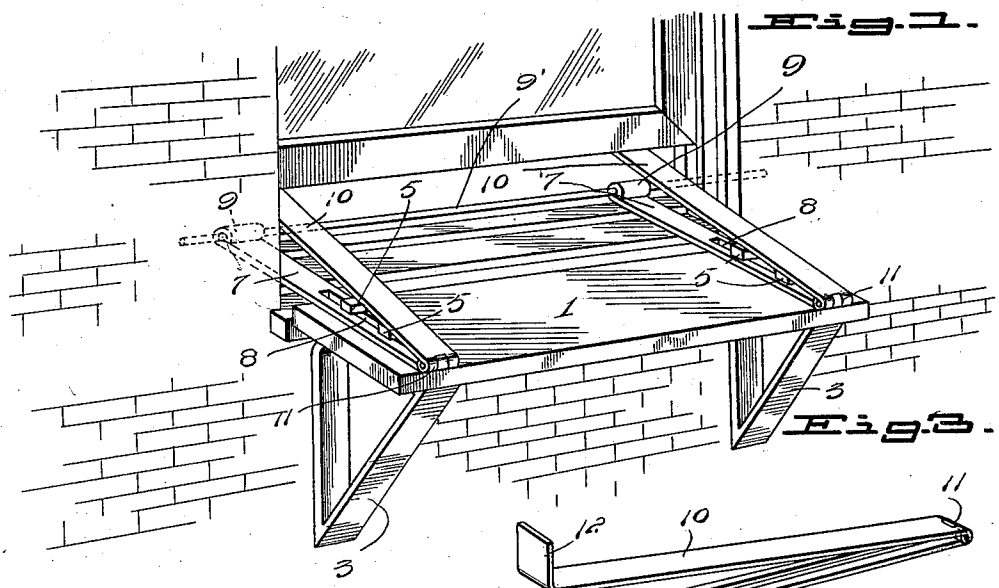
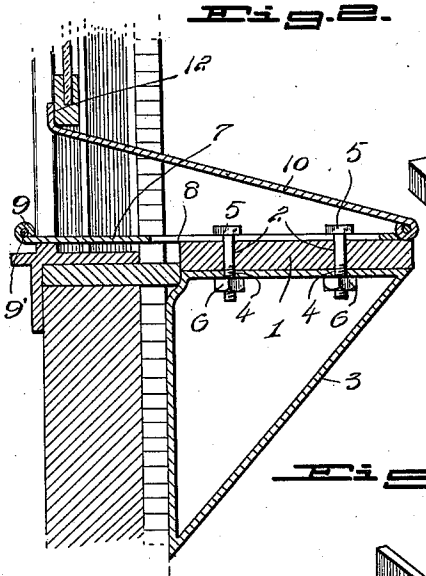
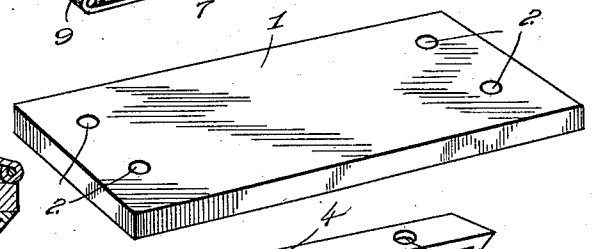


Fig. 3.

Fig. 2.





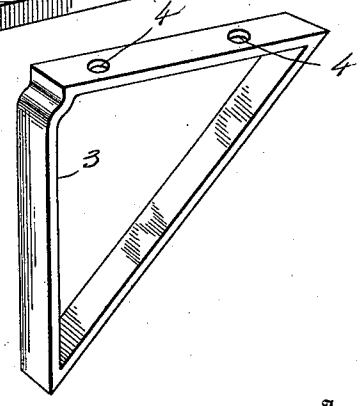
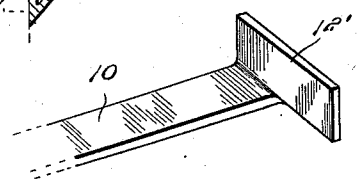


Fig. 4.



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WINDOW-CLEANER'S SCAFFOLD.

1,083,192. Specification of Letters Patent. Patented Dec. 30, 1913.

Application filed December 14, 1912. Serial No. 736,756.

To all whom it may concern:

Be it known that I, EDWARD W. COOPER, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Window-Cleaners' Scaffolds, of which the following is a specification.

This invention relates to portable, knock-down scaffolds for the use of window cleaners and others, the object of the invention being to provide a device of this character which may be detachably supported upon a window ledge or sill in a safe and secure manner, so that the windows may be conveniently washed from the exterior, or other work readily performed.

A further object of the invention is to provide a device of this character which may be conveniently taken apart for storage or transportation and set up for use at the point where it is to be employed.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:—

Figure 1 is a perspective view of a portion of the exterior of a building, showing the application of the invention. Fig. 2 is a vertical section taken through one end of the scaffold and the window frame, showing the manner in which the scaffold is retained in position. Fig. 3 is a view showing the parts of the device disassembled. Fig. 4 is a view of one of the upper retaining arms, illustrating a slight modification.

Referring to the drawings, 1 designates a board or platform, of appropriate length and width, and provided at each of its ends with a pair of spaced openings 2 arranged in alinement in a direction transversely of the board.

Arranged beneath the respective ends of the board are substantially triangular supporting brackets 3, which are adapted to abut at their inner vertical sides against the wall of the building to brace and hold the board or platform in position. The upper portions of these brackets are provided with openings 4 registering with the opening 2 in the ends of the board, through which openings pass fastening bolts 5 provided with retaining nuts 6.

Extending longitudinally across the ends of the board are lower retaining arms 7, each provided with a longitudinal slot 8 to slidably engage the bolts 5. These arms extend inwardly from the board and are adapted to project over the sill of the window casing. The inner ends of said arms, as shown, are provided with eyes 9 for the passage of a rod 9′, adapted to be arranged to rest against the jambs of the window frame and assist in holding the scaffold in position. It will be apparent that the slots 8 permit relative adjustment between the board and arms 7, for varying the distance between the bolts 5 and the eyes 9 and rod 9′, to adapt the device for application to window frames having sills of different thicknesses.

Disposed above the retaining arms 7 are upper retaining arms 10, which are hinged or pivoted at their outer ends to the outer ends of the arms 7, as at 11, and are provided at their inner ends with upwardly bent lugs 12, adapted to engage the lower rail of a closed sash, whereby the scaffold may be additionally supported. If desired, the lugs 12 instead of being bent upwardly to engage the closed window sash, may be bent laterally, as indicated at 12′ in Fig. 4, to engage the jambs of the window frame, which construction may be employed under some conditions.

It will be seen from the foregoing description that the parts of the device are connected by the bolts 5, so that upon releasing the nuts 6 and withdrawing the bolts, all of the parts may be disconnected and packed in close compass for storage or transportation, the arms 7 and 10 being adapted to fold in parallel relation, as will be readily understood. This construction also permits the parts of the scaffold to be conveniently connected for use at the point where the scaffold is to be employed.

In using the scaffold for the purpose of washing windows from the exterior or other like work, the board is placed on the outside of the window frame so as to abut at its inner edge against the wall or window sill and bring the inner faces of the brackets into engagement with the sill, while the arms 7 are brought into position to extend across the sill so that their lugs 9 will engage the inner face thereof and hold the scaffold board in position. The operator may then stand or sit upon the board and close the lower sash so that it will be en-

gaged by the lugs 12, whereupon the scaffold will be held securely in place, allowing the operator to work with ease and safety.

The scaffold may be removed from the window frame in an obvious manner, and may be employed for convenience in cleaning the windows of tall buildings, painting the woodwork of the window frames and for other analogous purposes.

I claim:—

A scaffold of the character described comprising a scaffold board, wall engaging brackets disposed beneath the ends of the board, lower retaining arms extending across the top of the board in alinement with the brackets, said lower retaining arms having slots therein and provided at their inner ends with eyes, a rod passing through the eyes of the lower retaining arms and adapted for engagement with the jambs of a window frame, upper retaining arms hinged at their outer ends to the lower retaining arms and provided at their inner ends with bent portions to engage the bottom rail of a window sash, and bolts passing through the wall engaging brackets and slots of the lower retaining arms and fixedly securing said brackets and adjustably securing said retaining arms to the scaffold board.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD W. COOPER.

Witnesses:
JOHN J. COFFEY,
VICTOR GRIFFEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."