

Sept. 3, 1957

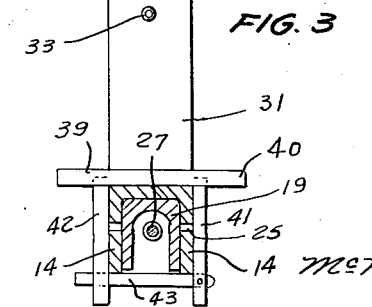
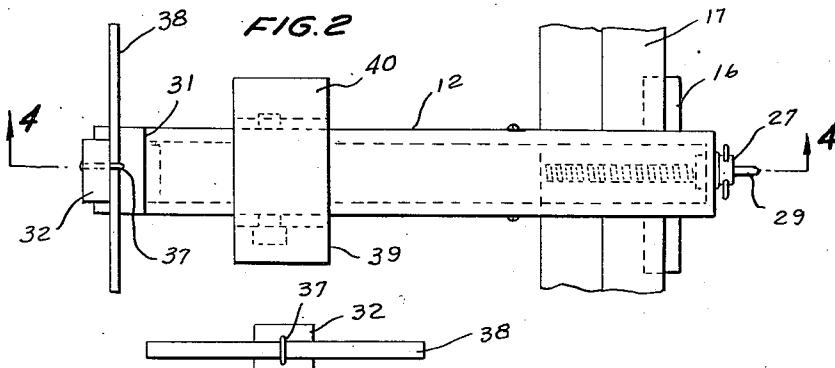
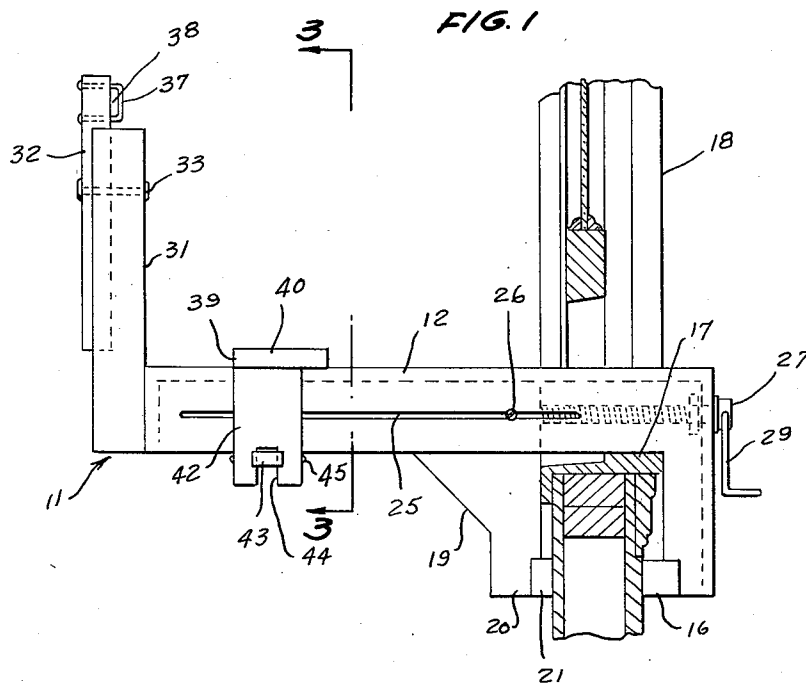
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2,805,103

WINDOW SCAFFOLD

Filed April 20, 1954

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

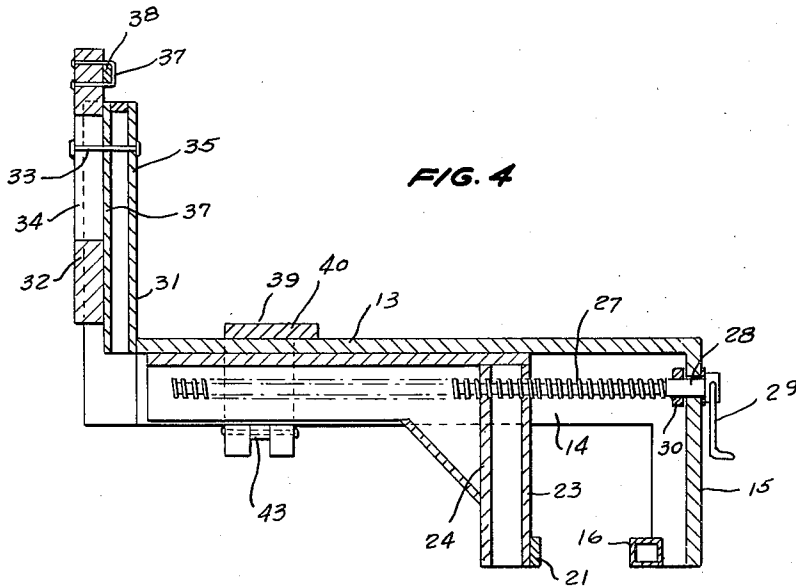


FIG. 4

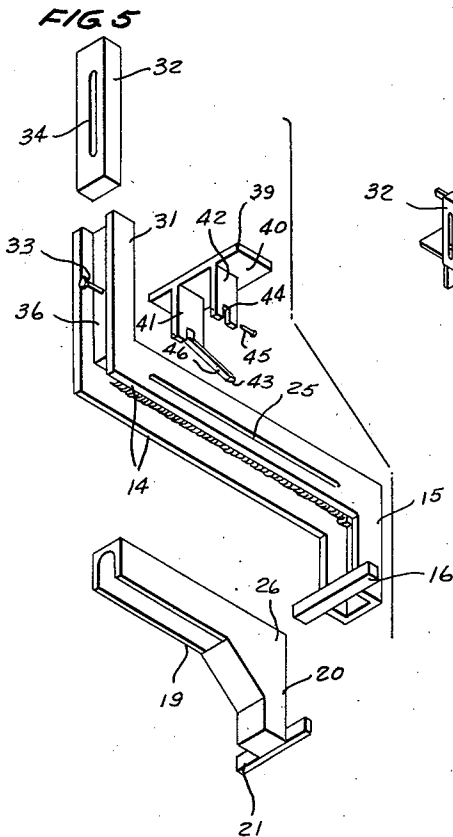


FIG. 5

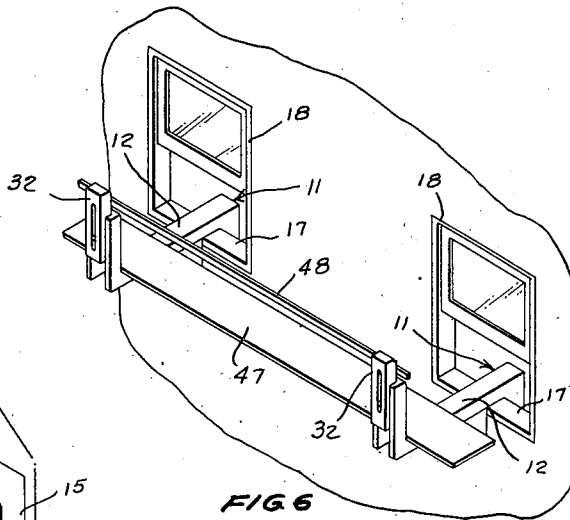


FIG. 6

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2,805,103

WINDOW SCAFFOLD

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2 Claims. (Cl. 304—24)

This invention relates to scaffolds, and more particularly to an improved window scaffold for supporting a platform on the outside of a window in a convenient position for window washing, painting, or other similar purposes.

A main object of the invention is to provide a novel and improved window scaffold device which is simple in construction, which is easy to set up, and which is safe to use.

A further object of the invention is to provide an improved window scaffold device which involves inexpensive components, which is sturdy in construction, which is light in weight, and which is easily adjustable in accordance with the requirements of the individual using the scaffold.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a transverse vertical cross sectional view taken through a window and showing a scaffold device according to the present invention secured thereon, the scaffold device being shown in side elevational view.

Figure 2 is a top plan view of the scaffold device used in Figure 1.

Figure 3 is a transverse vertical cross sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a longitudinal vertical cross sectional view taken on the line 4—4 of Figure 2.

Figure 5 is a perspective view showing the parts of the scaffold device of Figures 1 to 4 in separated positions.

Figure 6 is a fragmentary perspective view of a pair of adjacent windows of a building and illustrating the manner in which a pair of scaffold devices according to the present invention may be employed to support a platform adjacent the outsides of the windows.

Referring to the drawings, and more particularly to Figures 1 to 5, the improved scaffold device is designated generally at 11. The scaffold device 11 comprises a channel-shaped main frame member 12 of substantial length, said main frame member comprising the top wall 13 and the depending side walls 14, 14. At one end thereof the main frame member 12 is formed with a vertically depending arm 15, also of channel shape, said arm having secured to the bottom end portions of its flanges the transversely extending abutment bar 16 adapted to be engaged with the wall subjacent to a window and below the window sill of the window on the inside of a building, as shown, for example, in Figure 1, wherein the scaffold device is engaged over the window sill 17 of a window 18.

Designated at 19 is a channel-shaped member which is slidably received in the main frame member 12, said member 19 being formed at one end with the vertical abutment portion 20 which has secured to its lower end the transversely extending abutment bar 21 which is arranged in opposition to the transverse abutment member 16 of the arm 15 and which is adapted to engage outside the window below the window sill and to co-

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operate with the transverse abutment bar member 16 to clamp the device to the window in a position transversely overlying the window sill 17, as shown in Figure 1.

As shown in Figure 4, the depending portion 20 of the member 19 may comprise a pair of spaced vertical walls 23 and 24 which are rigidly secured between the side walls of the member 19.

The side walls 14, 14 of the main frame member 13 are formed with opposed longitudinal slots 25 through which slidably extend the respective ends of a transverse guide pin 26 secured in the end portion of the member 19 adjacent the vertical wall elements 23 and 24, for example, between the top portions of said vertical wall elements 23 and 24. Designated at 27 is a clamping screw member which is rotatably mounted at its end in the upper portion of the main wall of the depending arm 15, the screw member being provided with a cylindrical shank portion 28 which is rotatably mounted in a suitable aperture formed in the top portion of the main wall of the arm 15, as shown in Figure 4. Secured to the end of the shank portion 28 is the crank handle 29. A transverse stop bar 30 extends through the shank portion 28 adjacent the inside surface of the main wall of arm 15, holding the screw member 17 against endwise movement. The screw member 27 is threadedly engaged through the top portions of the vertical wall elements 23 and 24 of the abutment member 19, whereby rotation of the crank handle 29 causes the abutment member 19 to be moved through the main frame member 12. Thus, the main frame member 12 may be clamped over the window sill 17 of a window 18, as shown in Figure 1, by positioning the device with the arm 15 depending inside the window and with the abutment member 19 outside the window, and by then rotating the crank 29 to clamp the wall between the transverse abutment elements 16 and 21.

Rigidly secured to the outer end of the main frame member 12 is the upstanding, vertical, outwardly facing channel member 31. Designated at 32 is a vertically adjustable guard bar which is slidably disposed in the upstanding channel member 31, the guard bar 32 being retained in the upstanding channel member 31 by a rivet 33 which extends through a vertical slot 34 formed in the guard bar 32 and which extends through the main wall 35 of the upstanding member 31 and through a vertical intermediate wall 36 secured inside the member 31 parallel to the main wall and spaced therefrom, as shown in Figure 4. The guard bar 32 is secured to the upstanding member 31 by the rivet 33 with sufficient tightness to cause substantial friction between the adjustable guard bar 32 and the inner wall element 36, whereby the guard bar 32 will remain in a given position of adjustment until manually moved.

A U-shaped fastening member 37 is secured to the top portion of the guard bar 32, and engaged through the right portion of the U-shaped member 37 adjacent the inside surface of the guard bar 32 is a horizontal rail member 38.

Designated at 39 is a saddle member having a horizontal top platform portion 40 and depending vertical arms 41 and 42, the member 39 being adapted to straddle the channel-shaped main frame member 12 in the manner clearly illustrated in Figure 3. Pivotaly secured to the lower end portion of arm 41 is a locking bar 43 which is swingable to transversely underlie the bottom edges of the side walls 14, 14 of main frame member 12, the depending arm 42 being formed with a notch 44 in which the bar 43 is receivable, the bar 43 being locked in the notch 44 by means of a locking pin 45 engageable through one of the tongue elements defined by the notch 44 and being engageable in a bore 46 provided in the bar 43. When locked in the position of Figure 3, the

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locking bar 43 engages the bottom edges of the side walls 14, 14 of main frame 12 with considerable force, frictionally locking the platform member 39 in a fixed position on the main frame 12.

From the above description, it will be apparent that the device may be readily mounted on the window sill 17 of a window 18 and that the platform element 39 may be locked in a desired position on the main frame member 12, and that the railing member 38 may be adjusted to a desired height, in accordance with the requirements of the individual user.

In the form of the invention shown in Figure 6, a pair of scaffold devices 11, 11 are secured on the window sills 17 of adjacent windows 18. The plank 47 is disposed on the main frame members 12 of the respective scaffolds 11 in place of the platform members 39, so that the plank 47 will be supported adjacent to the outside wall of the building between the windows 18, 18. Similarly, a guard bar 48 corresponding in length to the platform 47 is engaged through the U-shaped fasteners 37 of the respective guard bars 32, 32, whereby the guard rail 28 is substantially coextensive with the platform plank 47.

While certain specific embodiments of an improved window scaffold have been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A window scaffold comprising a channel-shaped main frame member, a depending channel-shaped arm rigidly secured to one end portion of said main frame member, a transverse cross bar secured to the edge portions of said arm and arranged to engage inside a window below the window sill, a channel-shaped abutment member slidably disposed in said main frame member and having a depending transverse arm formed to engage outside the window below the window sill, a screw member rotatably mounted in said main frame member and threadedly engaging said last-named arm, a saddle member engaged over and being slidably adjustable on said main frame member, a locking member pivotally secured to the lower portion of said saddle member and being

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engageable transversely below the bottom edges of said main channel shaped frame member, and an upstanding guard arm secured to the other end portion of said main frame member.

2. A window scaffold comprising a channel-shaped main frame member, a depending channel-shaped arm rigidly secured to one end portion of said main frame member, a transverse cross bar secured to the edge portions of said arm and arranged to engage inside a window below the window sill, a channel-shaped abutment member having its upper portion slidably disposed in said main frame member, said abutment member having a depending arm formed with a cross bar arranged to engage outside the window below the window sill, a screw member rotatably mounted in said main frame member and threadedly engaging said last-named depending arm, a crank handle secured to the end of said screw member and being located adjacent said first-named depending arm, a saddle member engaged over and being slidably adjustable on said main frame member, a locking member pivotally secured to the lower portion of said saddle member and being engageable transversely below the bottom edges of said main channel-shaped frame member, an upstanding guard arm secured to the other end portion of said main frame member, a vertically extending guard bar adjustably secured to said upstanding guard arm, and a horizontal rail element secured to the top portion of said guard bar.

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