

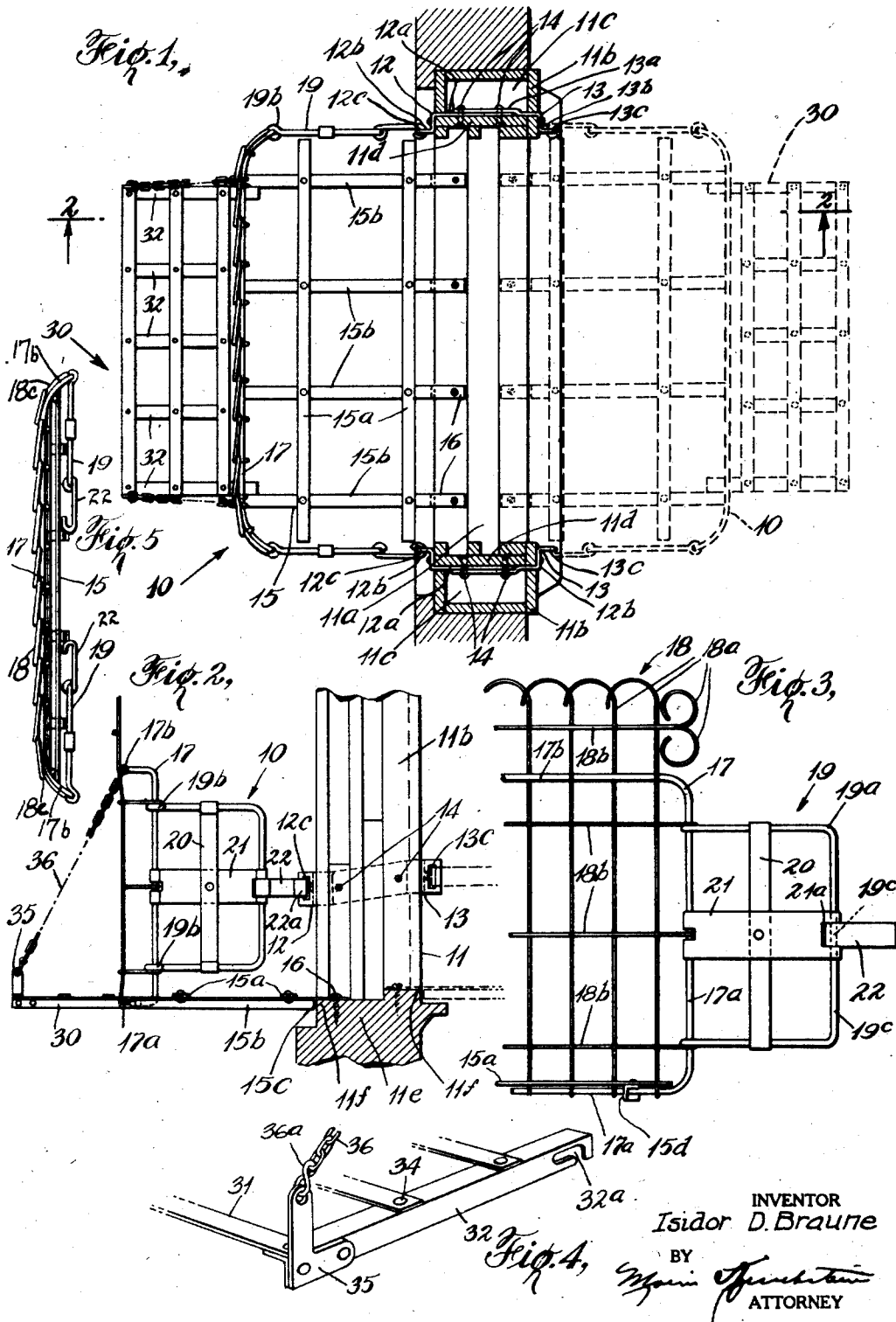
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PORTABLE WINDOW SCAFFOLD

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PORTABLE WINDOW SCAFFOLD.

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This invention relates to portable window scaffolds adapted to be used as a seat, balcony or support for window boxes and the like.

One object of the invention is to provide a portable window scaffold of improved construction which shall be adjustable for various window opening sizes, adapted to be removably installed to extend either outside or inside of the window opening and forming a collapsible structure so that it may be readily handled for setting up in or removal from said window opening and for storing into a compact body for transportation.

Another object of the invention is to provide a practical window scaffold of the character described which may serve as a safety guard to prevent children from falling from the window.

A further object of the invention is to provide an improved device of the character described comprising few and simple parts, which may be formed into a neat and artistically designed structure, which shall be inexpensive to manufacture, and practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a plan view of a window scaffold and extension platform embodying the invention positioned to extend outside the window opening of a window frame shown in section, and showing in dotted lines the improved scaffold applied to extend inside the window opening.

Fig. 2 is a cross-sectional view taken on lines 2—2 in Fig. 1.

Fig. 3 is a fragmentary front elevational view of the improved scaffold showing an end wall and hook swung into position parallel to the trellis structure of the scaffold.

Fig. 4 is a fragmentary perspective view showing a portion of the scaffold extension platform.

Fig. 5 is a top view of the improved scaffold

fold collapsed to form a compact body for storage and transportation.

Referring in detail to the drawing, 10 denotes an improved portable scaffold embodying the invention which is adapted to be removably installed to extend either outside or inside of the opening 11^a of a window frame 11.

As will be seen from Figs. 1 and 2, there are provided pairs of anchor plates 12 and 13, each pair having one end or inner portion 12^a and 13^a, respectively, thereof extending through the uprights 11^b of the window frame 11 and into the spaces 11^c which usually house the window sash weights (not shown) in a well known manner. Said plate ends 12^a and 13^a are firmly secured to upright members 11^d of the frame 11 in any suitable manner, as by means of bolts 14. The outer end portions or ends of said pairs of plates are offset as at 12^b and 13^b and are provided with eyelets or openings 12^c and 13^c in the outwardly extending portions of said plate ends 12^b and 13^b respectively, thus forming a detachable anchorage for the scaffold 10 in the manner as will hereinafter more fully appear.

The scaffold 10 may comprise a bottom lattice structure 15 formed with parallelly spaced, longitudinally extending, flat bars 15^a and a plurality of parallelly spaced, angle bars 15^b secured in crossed relation to said bars 15^a, the inner ends of the cross bars 15^b preferably being cut away as at 15^c to form an abutment stop against the upper edge portions or ledges 11^e of the window sill 11^a as is clearly shown in Fig. 2. If desired, suitable means such as screws 16 may be provided for fixedly securing said cross-bar inner ends to the sill 11^a. Pivotally secured to the outer ends of said cross-bars is a ring frame 17 which supports a front trellis structure 18. As shown in Fig. 3, said ring frame engages the downwardly extending wall portion of the outer ends of the end cross-bars 15^b as at 15^d.

The trellis structure 18 is formed of intermeshing grille wires 18^a neatly and artistically designed and secured to the ring frame 17 in any suitable manner, as by interweaving with cross-grille wires 18^b therewith and spot welding, soldering, or providing tie wires for forming the ring frame and grille wires into a rigid trellis structure.

The end walls 19 of the scaffold are pivotally mounted on the opposite upstanding portions 17^a of the ring frame 17 and may be

constructed in any suitable manner. As here shown, each end wall 19 is formed with a rim bar 19^a, the free ends of which terminate in eye hooks 19^b which engage the ring frame portion 17^a. A pair of bands 20 and 21 is also provided to extend in crossed relation for interconnecting opposite sides of the end walls. The band 21 pivotally engages a mid-section of the ring member portion 17^a and is preferably made relatively wide, said band being cut away at 21^a adjacent the portion thereof connecting with the rim bar 19^a. Said cut away portion 21^a provides a space for receiving the pivoted end of a link 22 which is journaled to the portion 19^c of the rim bar 19^a as shown in Fig. 3. The free end of the link 22 terminates in a hook 22^a, each hook being adapted to engage either one of the eyelets 12^c or 13^c.

As shown in Fig. 5, the window scaffold structure 10 may be folded up into a compact unit for transportation, storage or to facilitate setting up the scaffold to extend outside the window opening and the dismounting of said scaffold structure.

To install the scaffold 10 outside the window opening, the scaffold 10 in collapsed position is placed in the window opening 11^a with the bottom structure 15 against the window sill 11^c. The trellis structure 18 and side wall 19 are then unfolded and the links 22 engaged to the pair of anchor plates 12. This is readily done since the links are relatively free to move with respect to the front trellis structure, said links being carried on two pivoting points, one being the direct connection of the links with the rim bar 19^a, and the other being the rim bar's pivotal connection with the ring frame 17. After the links have been engaged with the anchoring plates, the scaffold may be extended outside the window until the cut away portion 15^c of the cross-bar 15^b abuts the outer ledge 11^f of the window sill 11^c. In this position it will be noted that the scaffold forms a rigid structure adapted to carry substantial weight so that it may be used as a seat for supporting a person while engaged in cleaning windows, or as a balcony on which a window box or like article may be safely mounted.

To more firmly secure the scaffold against accidental displacement, the screws 16 may be provided to fixedly fasten the cross-bars 15^b to the window sill 11^c.

The scaffold 10 may also be utilized for supporting window boxes having potted plants during the winter months when it is desirable to support such plants inside of the window opening. For such service, the scaffold 10 may be removed from the outside and attached to the pairs of anchored plates 13, as is clearly shown in the dotted line position as shown in Figs. 1 and 2.

Although the scaffold 10 is proportioned to fit window openings of standard width, it

may also be applied to window openings varying somewhat from the standard size because of the pivotal arrangement of the links to the end walls, of the end walls to the trellis structure, and of the trellis structure to the bottom structure.

The scaffold 10 when set up in the window opening to extend either outside or inside the window opening serves as a safety guard to prevent children from falling through the window opening since it forms a shield or obstruction, as is readily seen from Fig. 1.

It is often found that the supporting surface provided by the bottom structure 11 is insufficient for certain purposes and it is desirable that more supporting surface be provided. In such cases an extended platform 30 may be provided. Said platform may comprise longitudinally spaced flat bars 31 connected by cross, angle bars 32, said bars being connected together in any suitable manner as by means of rivets 34 to form a rigid structure. The end portion of the downwardly extending wall of each of the angle bars may be provided with an L-shaped slot 32^a at one of the inner ends thereof, said slot being adapted to engage the lower horizontally extending portion 17^a of the ring frame 17. The other ends of the outermost cross members 32 may each be provided with a suitable fitting 35 which extends up from the platform, said fitting being adapted to engage with one end 36^a of a bracing chain 36, the other end of said chain being releasably secured to the upper horizontally extending portion 17^b of the ring frame 17. The extending platform 30 may thus be demountably supported on the scaffold when it is desired to increase the weight supporting surface and may be readily removed when not in use by detaching it from the scaffold 10.

The ring frame 17 and trellis structure 18 are preferably formed with rounded end portions 17^b and 18^c, respectively, so that when the scaffold 10 is collapsed, the bottom structure 15, end walls 19 and links 22 may be folded into said frame and trellis structure to form a compact or easily handled unit as is clearly shown in Fig. 5.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing, is to be interpreted as illustrative and not in a limiting sense.

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

1. The combination with a frame having a window opening of a pair of anchoring plates fixedly secured to extend from opposite sides of the frame, a scaffold having front, bottom and side walls connected together to form a collapsible structure, means extending from said side walls for detachably engaging said pair of said anchoring plates whereby said scaffold may be installed to extend from the window opening, and a platform demountably secured to said scaffold for extending the weight supporting surface of the bottom of said structure beyond the front wall, as and for the purpose described and specified.
2. A scaffold of the character described comprising a front wall having pivotally interconnected thereto a bottom and side walls, means carried by said side walls for detachably engaging the scaffold to a window frame to extend from the window opening, the portions of the front wall connecting with the side walls being curved to permit enfolding the bottom, side walls, and said means, as and for the purpose described and specified.
3. A collapsible device of the character described comprising a front wall having curved end portions, a bottom structure pivoted to said front wall, end walls swingably mounted on said curved end portions, a detachable fastening member pivotally carried by each of said end walls whereby said device forms a rigid weight supporting scaffold when extended from a window opening with said members detachably anchored to the frame of the window opening, and a platform demountably secured to said scaffold for extending the weight supporting area of the bottom of said structure beyond said front wall.
4. A collapsible device of the character described comprising a front wall, a bottom structure pivoted to said front walls, end walls swingably mounted from opposite sides of said front wall, a detachable fastening member carried by each of said end walls whereby said device forms a rigid weight supporting scaffold when extended from a window opening with said members detachably anchored to the frame of the window opening and said bottom structure engaging the sill of said window frame, and a demountable platform having bayonet slots engaging with said front wall for increasing the available weight supporting surface.
- In testimony whereof I affix my signature.
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