W. R. VANCLEAVE.

SCAFFOLD.

APPLICATION FILED AUG. 21, 1914.

1,158,873.

Patented Nov. 2, 1915.

2 SHEETS—SHEET 1.

Fig. 1

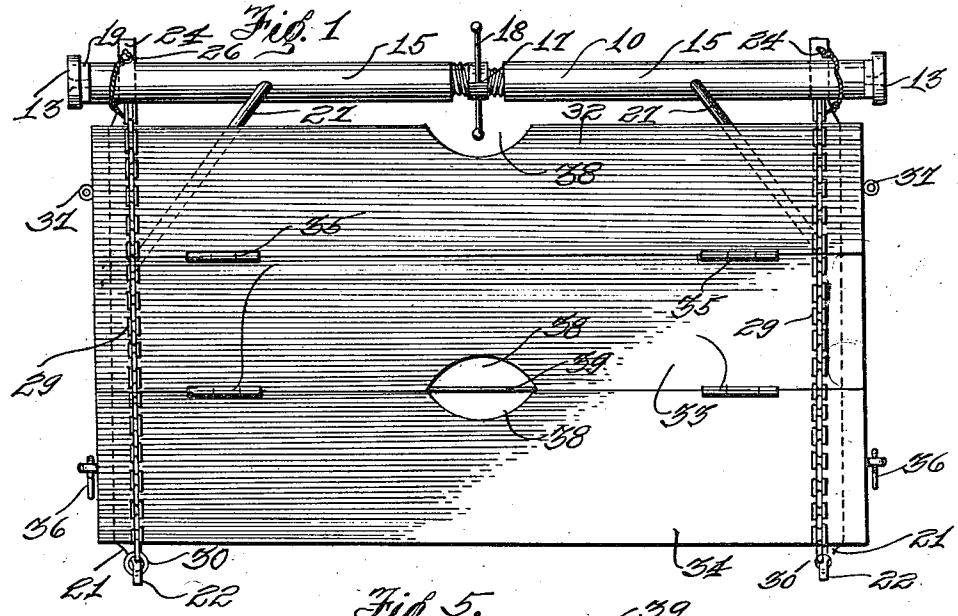


Fig. 5.

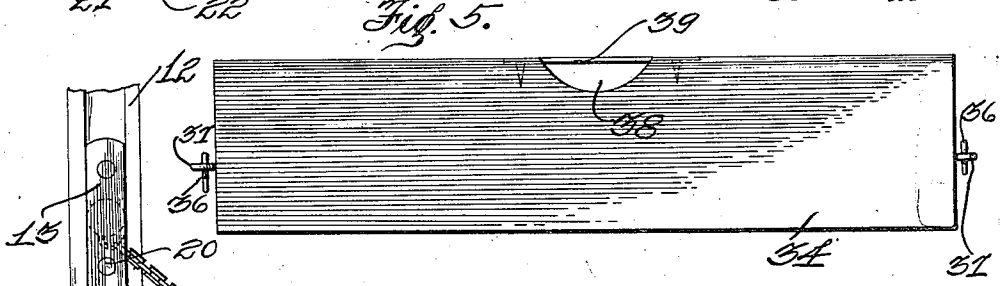


Fig. 3.

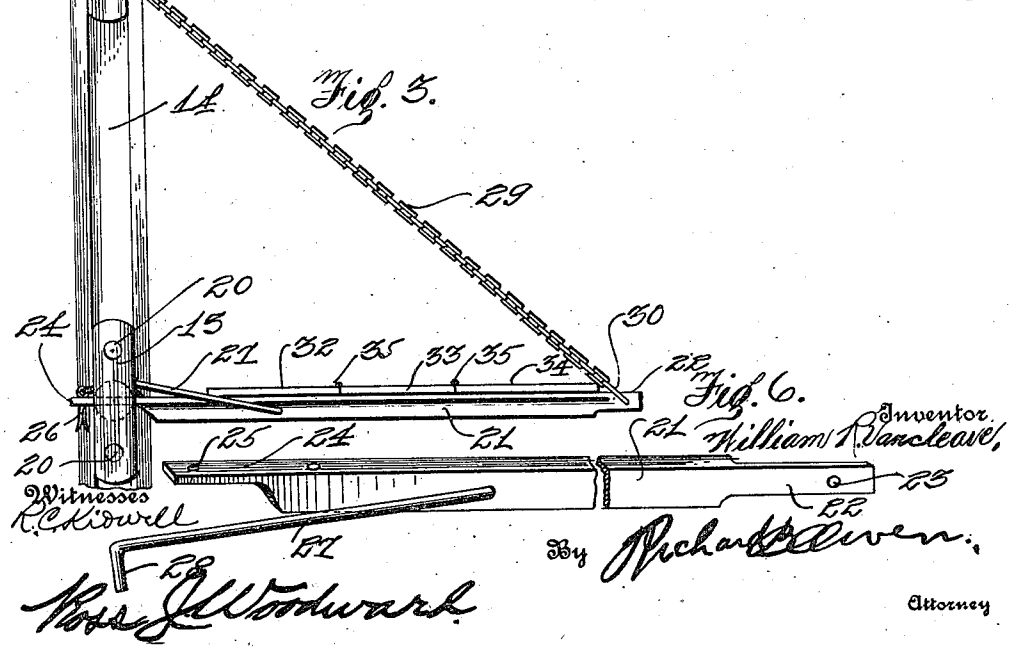


Fig. 6.

Witnesses
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2 SHEETS—SHEET 2.

Fig. 2.

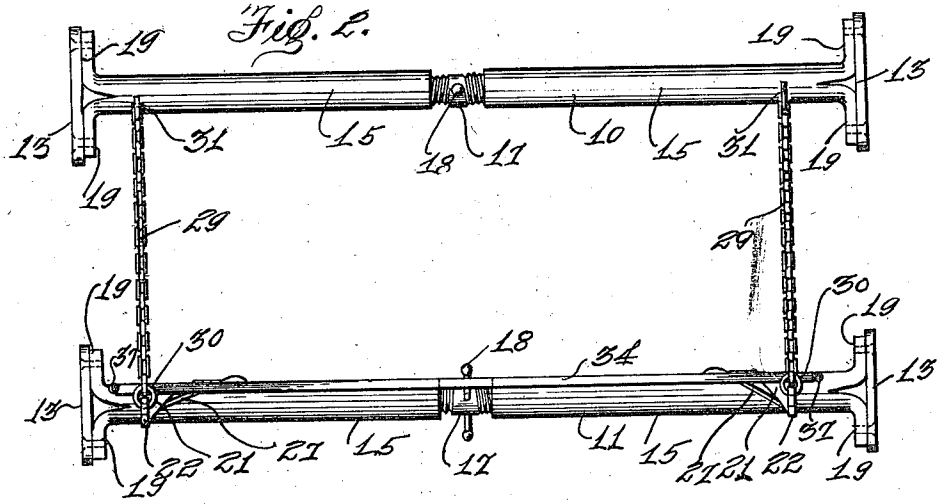


Fig. 4.

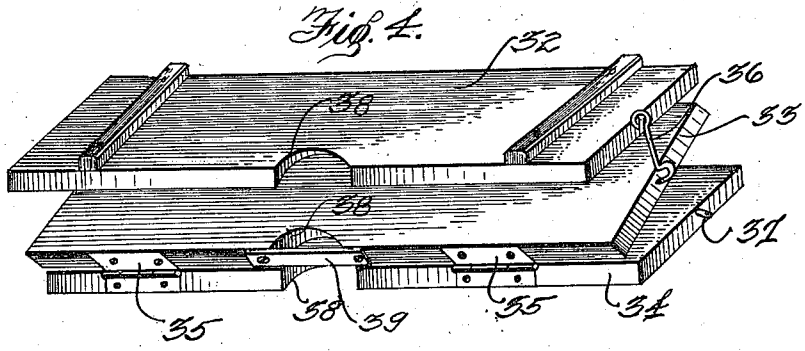
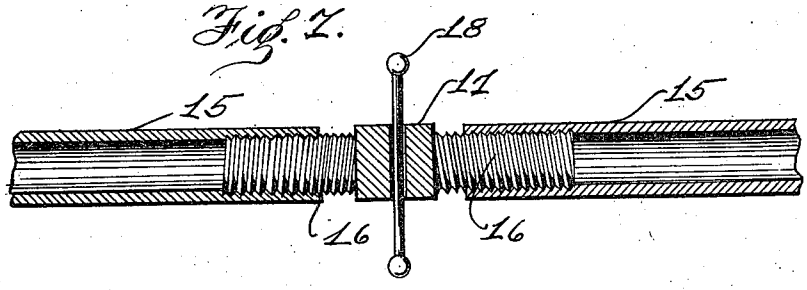


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

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SCAFFOLD.

1,158,873. Specification of Letters Patent. Patented Nov. 2, 1915.

Application filed August 21, 1914. Serial No. 857,895.

To all whom it may concern:

Be it known that I, WILLIAM R. VANCLEAVE, a citizen of the United States, residing at Mott, in the county of Hettinger and State of North Dakota, have invented certain new and useful Improvements in Scaffolds, of which the following is a specification.

This invention relates to a scaffold of the type which is intended to be connected with a window frame to extend outside the window so that a person can stand outside the window in order to clean the same or do any other work which requires the person to stand outside the window.

The principal object of the invention is to provide improved means for connecting the scaffolding with the window frame without it being necessary to leave the window open.

Another object of the invention is to provide an improved platform for the scaffold, the platform being so constructed that it may be folded into a compact mass and releasably held in the folded position, thus permitting it to be easily carried from one place to another.

Another object of the invention is to provide a scaffold of the type described which can be easily and quickly put in place and taken down when desired and which may be very securely held in place when not in use.

This invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a top plan view of the scaffold; Fig. 2 is a front elevation of the scaffold; Fig. 3 is a side elevation of the scaffold; Fig. 4 is a perspective view of the platform in a partially folded position; Fig. 5 is an elevation of the platform in the folded position; Fig. 6 is a perspective view of one of the bars which support the platform; Fig. 7 is an enlarged sectional view of one of the clamping bars which connect the scaffold with the window frame.

The upper and lower bars 10 and 11 of this scaffold connect the same with the window frame 12, the shoes 13 of the gripping bars fitting into the grooves or tracks 14 in which the upper window sash travels. Each of these gripping bars is formed from a pair of tubular sleeves 15 which have their inner end portions internally threaded as shown in Fig. 7 so that the threaded end portions 16 of the draw-bolts 17 may move the sleeves 15 toward and away from each other when the bolts are rotated by the operating pins or rods 18. The outer end portions of the sleeves are split longitudinally and then bent to form outwardly extending feet 19 which are secured to the shoes 13 by rivets 20 or other suitable securing means.

The supporting arms or bars 21 are formed from angle iron as shown in Figs. 3 and 6, the forward end portion of each arm being cut away to provide a finger 22 in which an opening 23 is formed and the rear end portion being cut away to provide a finger 24 in which an opening 25 is formed. It should be noted that the forward end portion of the upper flange is cut away to form the finger 22 and the end portion of the side flange is cut away to form the finger 24, thus causing the finger to extend at right angles to each other. The fingers 24 extend through slots formed in the end portions of the lower gripping bar 11 and are releasably held in place by the keys 26 so that when desired, the supporting arms may be disconnected from the lower gripping bar. In order to securely brace the supporting bars there has been provided diagonal bracing rods 27, the forward ends of which are pivotally connected with the side flanges of the supporting bars and the rear ends of which are bent to form hooks 28 which pass through openings formed in the lower gripping bar and thus releasably connect the bracing rods with the lower gripping bar. In order to further brace the supporting bars or arms there has been provided chains 29 which are carried by rings 30 passing through the openings 23. The free end portions of these chains are engaged by hooks 31 carried by the upper gripping bar 10 and therefore when this scaffold is in place the chains will support the outer ends of the supporting arms and brace the same so that there will be no danger of these arms bending under the weight of a person standing upon the platform which is carried by the supporting arms. This platform comprises the foldable sections 32, 33 and 34 which are hingedly connected by the hinges 35, thus permitting the platform to be folded as shown in Figs. 4 and 5. In order to releasably hold the platform in the folded position there has been provided hooks 36 which engage the eyes 37 when the platform is folded and thus prevent the three sections from moving apart when the platform is carried. In order to permit the platform

to be easily carried there has been provided cut outs 38, a strip 39 extending across the cut out of the section 33, thus forming a handhold by means of which the platform may be easily carried.

When this scaffold is in use, the lower sash is opened and the supporting arms are then connected with the lower gripping bar and the chains connected with the hooks 31. The frame of the scaffold which has now been constructed is extended out of the window and the rod 18 turned to spread the lower gripping bar until its shoes 13 are clamped tightly in the lower end portion of the tracks 14. The upper gripping bar is now raised in the tracks as far as the chains will permit and is then spread by turning its draw-bolt 17 until its shoes are tightly clamped in the tracks. The platform is now placed upon the arms and extended to the position shown in Fig. 1, thus forming a solid platform upon which a person can stand.

This scaffolding does not extend into the room or across the tracks of the lower sash and therefore after the person has stepped out upon the platform, the lower window can be closed, thus preventing cold air from blowing into the room. When the windows have been washed or other work done, the lower window can be opened and the operator step into the room, after which the scaffolding can be easily removed and either put away until again needed or easily connected with a second window frame.

What is claimed is:—

1. A scaffold including a frame comprising upper and lower longitudinally adjustable gripping bars, supporting arms removably connected with said lower gripping bar, bracing rods carried by said supporting arms and releasably connected with said lower gripping bar, and flexible supporting means connected with the outer end portions of said supporting arms and releasably connected with said upper gripping bar.

2. A scaffold including a frame comprising upper and lower gripping bars, supporting arms releasably connected with said lower gripping bar, bracing means for said supporting arms extending from said supporting arms at points intermediate their length and connected with said lower gripping bar, and flexible supporting means connecting the outer end portions of said supporting arms with said upper gripping bar.

3. A scaffold including a frame comprising upper and lower longitudinally adjustable gripping bars, shoes at the outer ends of said gripping bars for fitting into a sash track in a window frame when said scaffold is in use, supporting arms extending from said lower gripping bar, and flexible supporting means for said supporting arms connecting the outer end portions thereof with said upper gripping bar.

4. A scaffold comprising a frame including supporting arms, and a platform resting upon said supporting arms, said platform comprising a plurality of sections hingedly connected to permit a platform to be folded into a compact mass, the edge portions of said sections being provided with cut outs, means extending across one of said cut outs to form a handhold, and means for releasably holding said platform in a folded position.

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

WILLIAM R. VANCLEAVE.

Witnesses:
GEO. J. HELMING,
C. W. RUMPH.