D. P. CHESEBRO.

SCAFFOLDING DEVICE.

APPLICATION FILED JUNE 6, 1914.

1,195,976.

Patented Aug. 29, 1916.

Fig. 1.

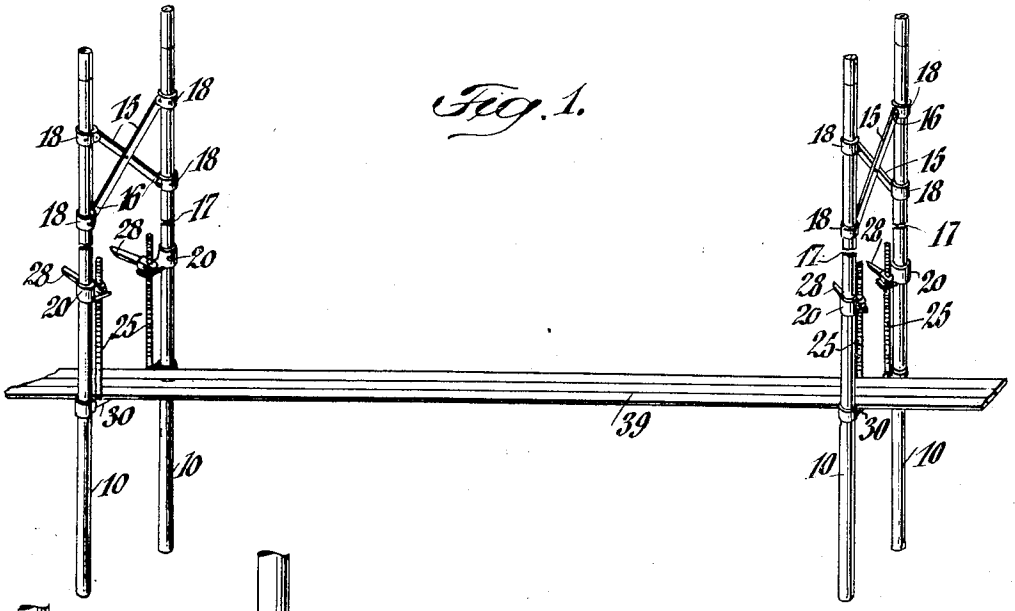


Fig. 2.

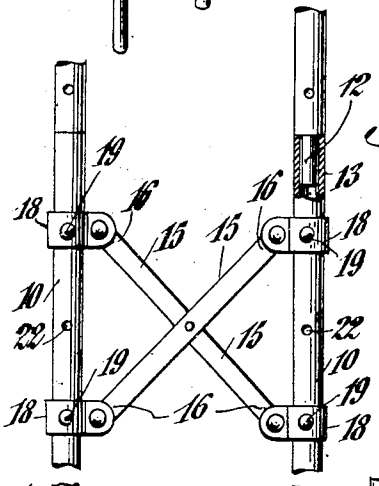


Fig. 3.

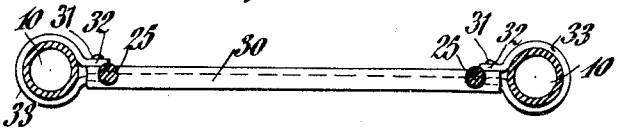


Fig. 4.

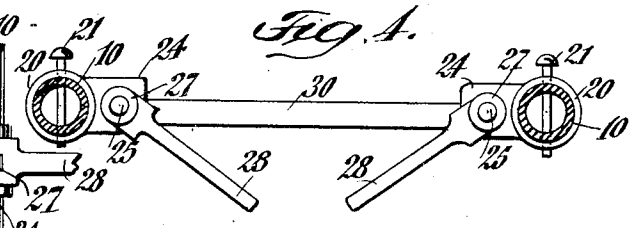


Fig. 5.

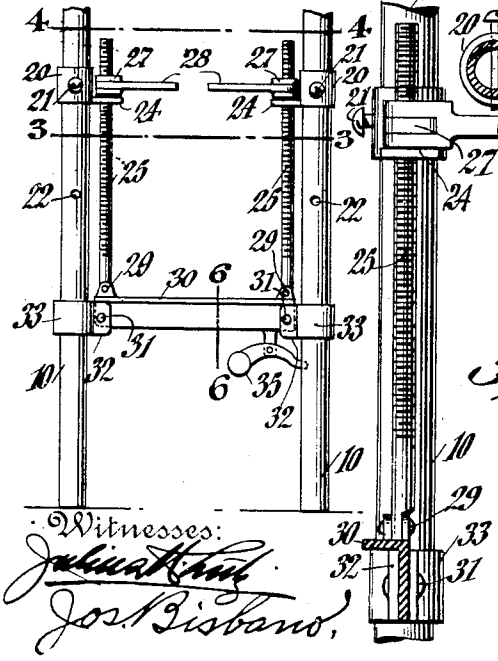
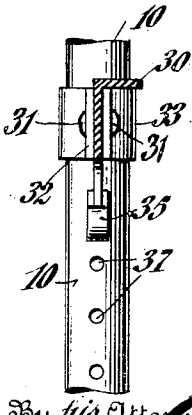


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

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SCAFFOLDING DEVICE.

1,195,976. Specification of Letters Patent. Patented Aug. 29, 1916.

Application filed June 6, 1914. Serial No. 843,384.

To all whom it may concern:

Be it known that I, DENISON P. CHESEBRO, a citizen of the United States of America, and resident of New Rochelle, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Scaffolding Devices, of which the following is a specification.

This invention relates to scaffolding devices, and more particularly to that kind intended to be applied to buildings of brick or masonry and of that kind of buildings which are about four, five or six stories in height, in contradistinction to the taller buildings of eighteen or twenty or more stories in height.

The object of the invention is to provide an improved scaffolding device which is safe and efficient, and which is readily installed and operated, and by means of which the workmen are enabled to gradually ascend along the walls of a building under construction. By the use of the improved scaffolding device the use of the wooden horses and wooden posts and platforms is done away with, which use has resulted in many accidents due to the insecure method in which these scaffolding devices are arranged and built up.

The invention will be more fully described hereinafter and finally pointed out in the claims.

In the accompanying drawing, Figure 1 is a perspective view of my improved scaffolding device, Fig. 2 is an end-view of the same, Fig. 3 is a horizontal section taken on line 3—3 of Fig. 2, Fig. 4 is a plan-view, partly in section, taken on line 4—4 of Fig. 2, Fig. 5 is a detail side-view of a portion of the device, on a larger scale, and Fig. 6 is a vertical section taken on line 6—6 of Fig. 2.

Similar characters of reference indicate corresponding parts throughout the different figures of the drawing.

Referring to the drawing, and more particularly to Fig. 1, the posts 10 are arranged along the walls of the building. The lower pole or post has its lower end inserted into the ground, and thereby stability is given to the post. The upper end of the lower post has another post joined therewith, as is clearly shown in Fig. 2, where the interior connecting-rod 12 enters the sleeve 13, which sleeve forms the upper end of the lower post. Along the length of the post, either above or below the operating mechanism, braces 15 are arranged, which have their ends 16 secured to the posts by sleeves 18 and pins 19 in openings 22 in the posts. By means of the braces stability is given to the posts throughout their height. In order to indicate that the structure is arranged post on post to any suitable height, the parts are shown broken away at 17, in Fig. 1.

The operating mechanism comprises a sleeve 20, which is temporarily secured to the post by means of a pin 21 passing through the openings 22 in the post, and this sleeve 20 is provided with an extending flange 24 having an opening through which a vertical screw-threaded spindle 25 passes. This spindle is engaged by a threaded ratchet-wrench 27 of the usual type, and not necessary to be described in detail. When the handle 28 of the wrench is reciprocated, the spindle is thereby lifted through the flange 24. The lower end of the spindle 25 is pivoted at 29 to a cross-bar 30, which in turn is pivotally connected at 31 to the flanges 32 of a sleeve 33, which is freely slidable on the posts. A ratchet locking device 35 is secured to the bar 30, and engages openings 37 in the posts and permits the bar 30 to be raised, but prevents the same from descending, unless the said locking device is released. A suitable platform of boards, indicated by 39, is arranged transversely to the bars 30 upon the same, and on this platform the workmen operate for the purpose of constructing the building. It will be noted that by reason of the platform being arranged in the manner indicated in Fig. 1, and posts arranged with their cross-bars 30, a continuous platform may be readily built throughout the length of the building and the operatives may move in the spaces between the posts with their wheelbarrows, stones, mortar and the like, without being in any way impeded. At the same time, it will be noted, that by the convenient movement of the operating devices, the platform may be gradually raised the length of the spindles, and when the platform reaches the upper limit of movement of the spindles the locking device 35 holds the platform in position. The pins 21 are then removed, and the handles 28 are manipulated to move the ratchets 27 upwardly along the spindle. The sleeves 20, with the

bolts 21, are then raised to the upper portions of the spindles, and the bolts again inserted through the sleeves and the higher openings in the posts. The same manipulation is repeated as often as necessary. By this means the platform may be raised from the lowermost portion of the posts to the uppermost portion of the uppermost post, corresponding to the intended height of the building.

I claim:

1. In a scaffolding device having adjacent pairs of posts arranged parallel to the wall of the building, a platform supporting unit adapted to be raised and lowered, comprising lower slidable sleeves, adapted to engage each of said posts, a cross-bar pivotally connected at its ends to the said lower slidable sleeves, upper slidable sleeves adapted to engage each of said posts, means for securing said sleeves at fixed points on the said sleeves, laterally extending flanges on the said upper slidable sleeves, provided with openings therethrough, threaded spindles pivotally secured at each side of said cross-rods, and extending upwardly through the said flanges of the upper slidable sleeves, and independently operable means engaging the said spindles above the said flanges adapted to move the said spindles through the said flanges.

2. In a scaffolding device having adjacent pairs of posts arranged parallel to the wall of the building, a platform supporting unit adapted to be raised and lowered, comprising lower slidable sleeves, adapted to engage each of said posts, a cross-bar pivotally connected at its ends to the said lower slidable sleeves, upper slidable sleeves adapted to engage each of said posts, means for securing said sleeves at fixed points on the said sleeves, laterally extending flanges on the said upper slidable sleeves, provided with openings therethrough, threaded spindles pivotally secured at each side of said cross-rods, and extending upwardly through the said flanges of the upper slidable sleeves and independently operable means engaging the said spindles above the said flanges adapted to move the said spindles through the said flanges, and a supporting device connected with the cross-bar, and adapted to engage one of the posts.

3. In a scaffolding device having adjacent pairs of posts arranged parallel to the wall of the building, one of said posts being provided with a series of holes therein, a platform supporting unit adapted to be raised and lowered, comprising lower slidable sleeves, adapted to engage each of said posts, a cross-bar pivotally connected at its ends to the said lower slidable sleeves, upper slidable sleeves adapted to engage each of said posts, means for securing said sleeves at fixed points on the said posts, laterally extending flanges on the said upper slidable sleeves, provided with openings therethrough, threaded spindles pivotally secured at each side of the said cross-rods, and extending upwardly through the said flanges of the upper slidable sleeves, independently operable means engaging the said spindles above the said flanges, adapted to move the said spindles through the said flanges, and a pivotally mounted weighted supporting device at one side of said cross-bar, adapted to automatically engage and be disengaged from the said openings of the post as the platform supporting unit is raised.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

DENISON P. CHESEBRO.

Witnesses:

F. HOGG,

JOS. BISBAND.