

Oct. 2, 1951

R. BOEDECKER

2,569,653

VERTICALLY ADJUSTABLE SCAFFOLD CARRIAGE

Filed May 26, 1947

3 Sheets-Sheet 1

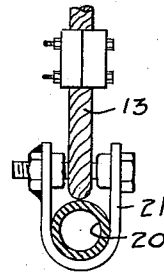
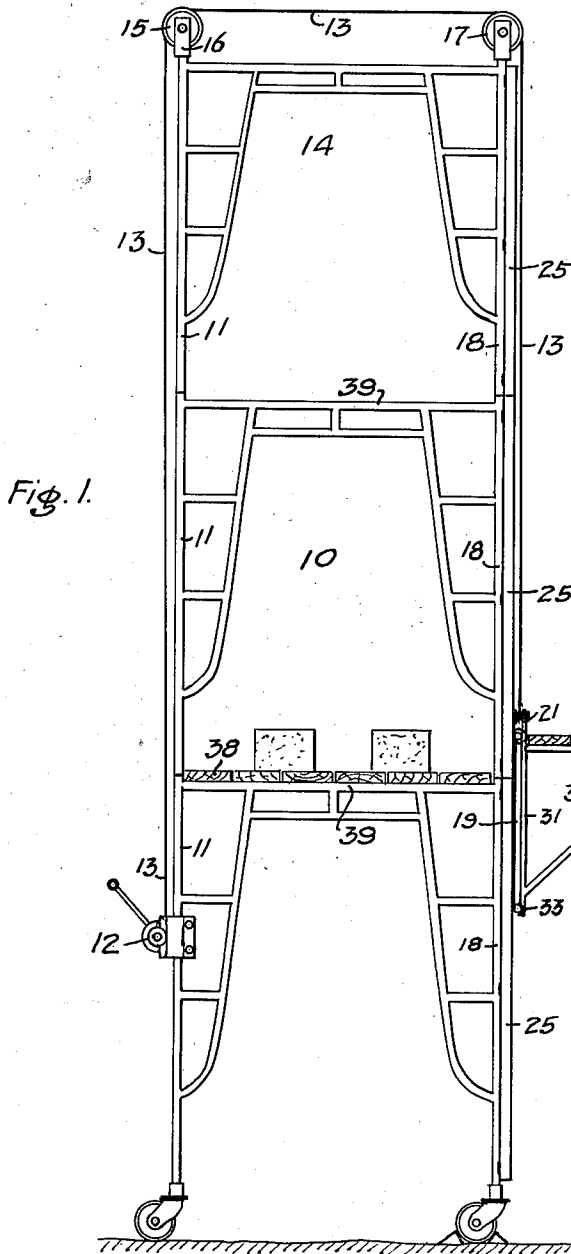


Fig. 7.

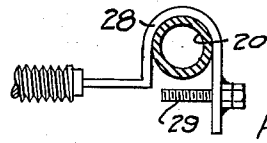


Fig. 8.



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3 Sheets-Sheet 2

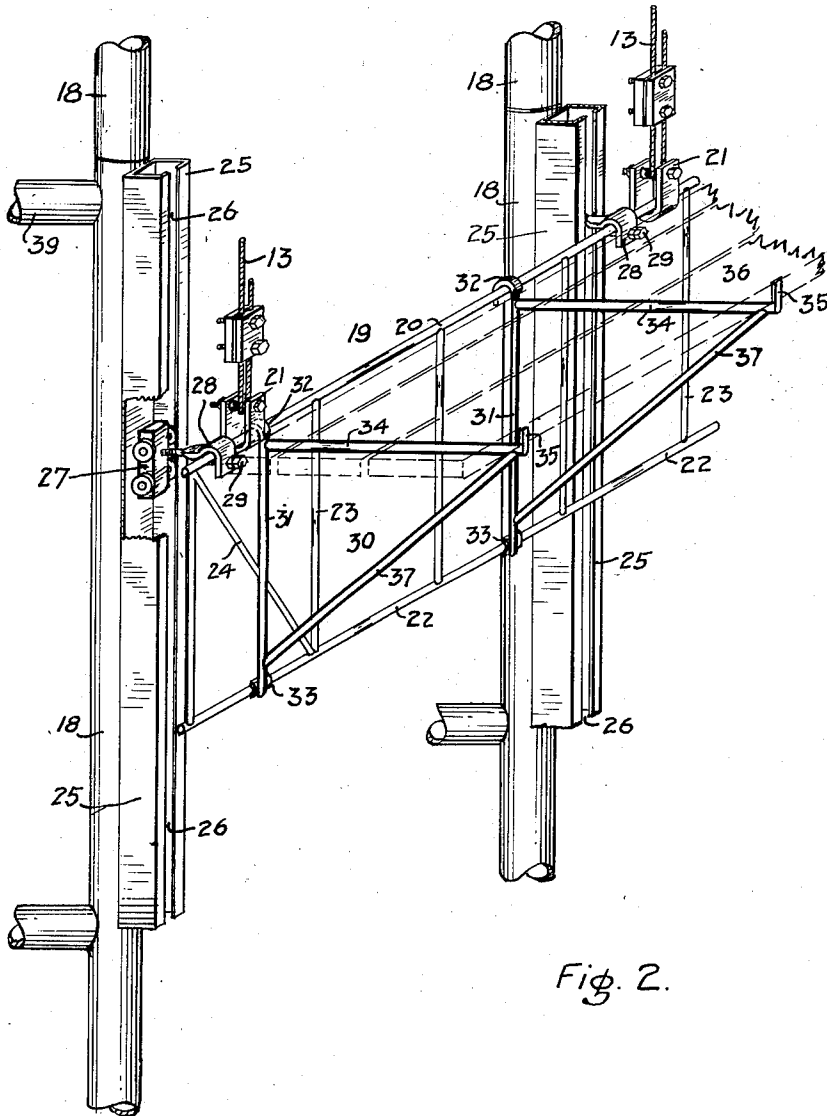


Fig. 2.

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3 Sheets-Sheet 3

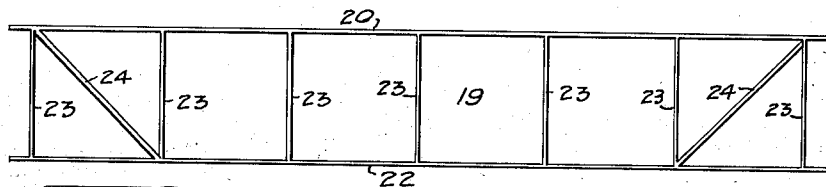


Fig. 4.

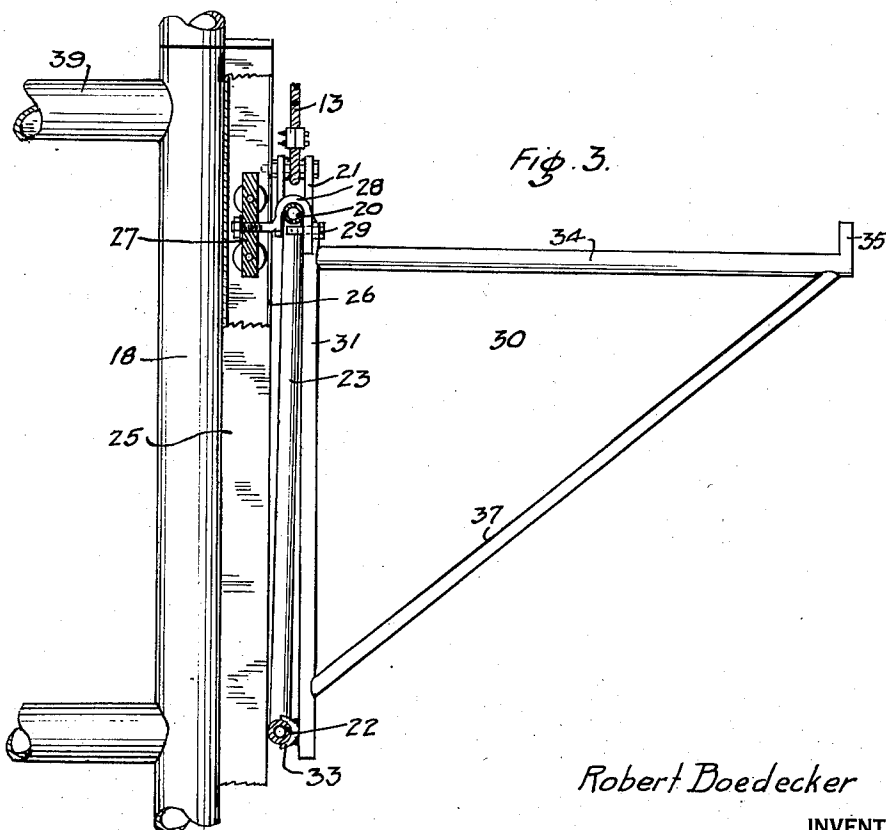
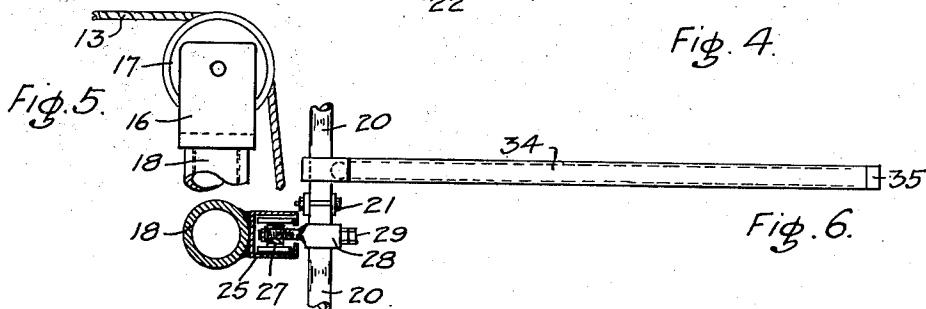


Fig. 3.

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2,569,653

VERTICALLY ADJUSTABLE SCAFFOLD
CARRIAGE

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Application May 26, 1947, Serial No. 750,473

2 Claims. (Cl. 304—29)

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This invention relates to the building industry and has special reference to the scaffolding used to enable the workmen to reach all parts of the walls of the structure being built; it has further special reference to the platforms supported by the scaffold.

The objects of my invention are, first, to improve the scaffold whereby the working platforms may be raised or lowered as may be required; second, to provide a box track on the scaffold to hold the platform in horizontal position as it is raised or lowered; third, to provide a movable vertical base for the platform brackets; fourth, to provide brackets detachably supported by said base; fifth, to save time and labor in adjusting the platforms to the height needed by the workmen; and sixth, to provide an eminently practical and highly efficient mechanism for the accomplishment of the above objects.

I attain these and other objects as will readily be understood by those familiar with the art, by the devices, mechanisms, and arrangements illustrated in the accompanying drawings, in which: Fig. 1 is an end view of a scaffold equipped with my invention; Fig. 2 is a perspective view of a portion thereof, a part being broken away to reveal the construction thereof; Fig. 3 is a side elevation of a portion thereof; Fig. 4 is a front elevation of the carrier or base; Fig. 5 is a side view of one of the pulleys at the top of the scaffold; Fig. 6 is a plan view of a node in the platform support, showing a part of the scaffold in section; Fig. 7 is a side view showing the connection between the supporting cable and the carrier or base; and Fig. 8 is a view of the hook connecting the carrier or base with the guide carriage.

Similar numerals of reference refer to the same parts in the several views.

My invention is illustrated as applied to a steel sectional scaffold 10 in which the several units are composed of successive sections which are firmly secured together, one above the other, such as is commonly in use in the building industry, but it is to be understood that it may be applied to any suitable form of scaffold. To each of the outer legs 11 of such a sectional scaffold unit, I mount a hand winch 12, having suitable ratchet means to hold the drum thereof in selected position, to prevent it from accidentally unwinding the cable 13. This cable 13 extends upward from the winch 12 to the upper part 14 of the scaffold. A pulley 15 is mounted in a suitable frame 16 (Fig. 5) which is secured to the scaffold at the upper end of the outer leg 11 thereof.

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The cable 13 turns over the pulley 15 and passes thence over a similar pulley 17 secured over the inner leg 18 of the scaffold 10, and thence downward to the carrier or base 19 (Fig. 4) where it is secured to the upper member 20 thereof by a shackle 21 (Fig. 7).

This carrier 19 comprises a structure composed of the said upper horizontal member 20, a parallel lower member 22, a plurality of vertical members 23 joining the said horizontal members 20 and 22, and some diagonal brace members 24, all said parts being suitably welded together to form a single structure. This carrier 19 hangs in a vertical plane along the vertical inner side of the scaffold, extending horizontally past several of the units composing the scaffold, and forms the base or frame for the platform brackets to be attached to.

Each of the inner legs 18 of the scaffold has a box track 25 (Figs. 2, 3, 6) suitably secured to it and extending vertically the length of said leg; the box tracks of one leg coordinating with those above and below it to form a continuous box track from the top to the bottom of the scaffold 10. These tracks 25 are of box form with a continuous slot 26 along the center of its exposed side.

A wheeled carriage 27 (Figs. 2, 3, and 6) rides vertically inside the box track, riding on each side of the slot 26, and is provided with a hook 28 (Fig. 8) extending out from the slot and adapted to engage over the upper member 20 of the carrier 19. A bolt 29 passes through the outer leg of the hook 28 to pass under the member 20 to hold the hook 28 in engagement with the said member 20.

A plurality of brackets 30 (Figs. 1, 2, 3) are removably mounted in any desired position on the carrier 19. Each bracket 30 is formed of a vertical tubular member 31, having a hook 32 extending from its upper end and adapted to pass over the upper member 20 of the carrier 19. The lower end of the vertical member 31 of the bracket is provided with a socket 33 adapted to lie on the side of and partially enclose the lower member 22 of the carrier 19. A horizontal arm 34 extends from a point near the upper end of the vertical member 31, and is provided with a safety lug 35 at its end, adapted to prevent the outer plank 36 of the platform from sliding off the bracket 30. A diagonal brace 37 joins the lower end of the member 31 with the outer end of the arm 34. The parts 31, 34 and 37 are firmly welded together to form a single bracket 30, and the parts 32 and 33 are welded thereto. Planks 36 are laid on the arm 34 to provide a floor on which the

workmen may stand. Other planks 38 may be laid on the cross members 39 of the scaffold, adapted to receive the material to be used.

Thus it will be seen that I have invented a means for raising or lowering the working platforms of the scaffold, which is quick and easy to operate and which will hold the platform at any desired level. It is, of course, obvious that the weight of the platform with its load tends to tip the top of the brackets outward, thus tending to pull the top member 20 of the carrier 19 out from the scaffold, and that this tendency is negated by the pull of the carriage 27 against the outer member of the box track 25, through the hook 28 connecting the member 20 to the carriage 27. Similarly the lower ends of the brackets 30 press inward on the lower member 22 of the carrier 19, said lower member riding freely on the outside of the box track 25. Thus the arms 34 of the brackets are always kept horizontal, independent of their position in relation to the legs 18 of the scaffold. Also, it will be understood that, due to the width of the hooks 32 and the sockets 33, the said brackets will always extend out at right angles from the scaffold and will resist any horizontal swinging motion on the carrier, the planks 36 also resisting such motion.

It is, of course, understood that many changes may be made in the details of my invention, without departing from the spirit thereof as outlined in the appended claims.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. In a scaffold platform, the combination with a scaffold composed of units set side by side, each unit having inner and outer legs braced together; a box track attached to the inner leg of each of said units and extending the full vertical length of said unit; a slot in each said box track and extending the full length thereof; a carriage inside each said box track and having a hook extending therefrom through said slot; a carrier composed of a vertically hung structure having upper and lower members extending past a plurality of said units and having its upper member engaged by the several hooks extending from said carriages in said box tracks; a plurality of

brackets, each hooked to and movable along the upper member of said carrier and supported thereby, and having a lower member engaging the lower member of said carrier, and having a horizontal arm adapted to receive the planks extending from one to another bracket to form a platform; and means adapted to adjustably support said carrier.

2. In a scaffold platform for a sectional scaffold comprising a plurality of units, each unit composed of a plurality of sections one above the other each such section being composed of inner and outer vertical legs braced together; the combination of a box track secured to the inner leg of each section of each unit, the box track of one section registering with the box track of the adjacent sections, each box track having a registering slot in its outer side; a carriage within the box track of each unit; a carrier comprising a structure having a top member extending past a plurality of said units and having a plurality of platform brackets extending laterally therefrom and movable thereon; means to support the carrier and comprising a cable attached to said top member and extending upward therefrom and secured to said scaffold; and a hook secured to each carriage and engaging the top member of said carrier to hold it from pulling away from said box track under the action of the loads on said platform brackets.

ROBERT BOEDECKER.

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