United States Patent

Cullison

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[54] **EXTENSION SCAFFOLD**

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[52] **U.S. Cl.** **182/119,** 182/178, 182/209, 182/223

[51] **Int. Cl.**.....**E04g 1/14**

[58] **Field of Search**.....182/119, 118, 178, 209, 210

[56] **References Cited**

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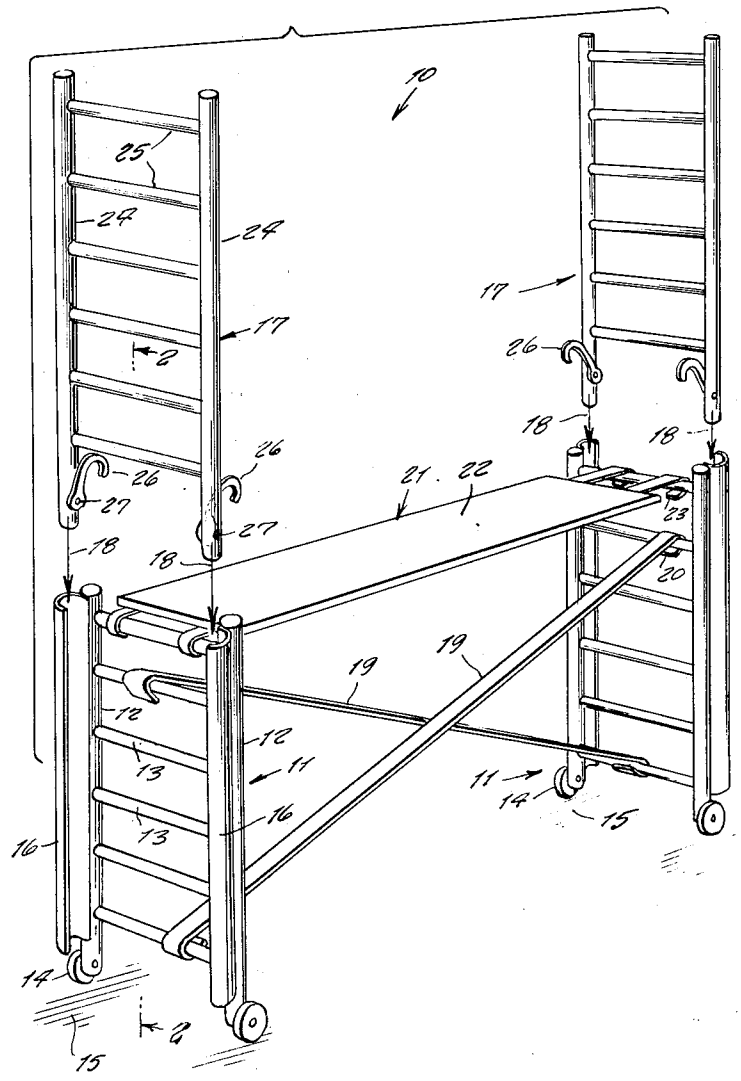
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Primary Examiner—Reinaldo P. Machado

[57] **ABSTRACT**

A portable scaffold which is extendable in height as well as length, the device being comprised of a pair of base ladder units held in upright vertical position by means of criss-crossing braces and a horizontal platform across the upper ends, and each of the base ladder units being adaptable for supporting thereon an extension at an adjustable elevation, and the horizontal platform in one form of the invention being telescopic in length.

1 Claim, 6 Drawing Figures



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SHEET 1 OF 2

Fig. 1

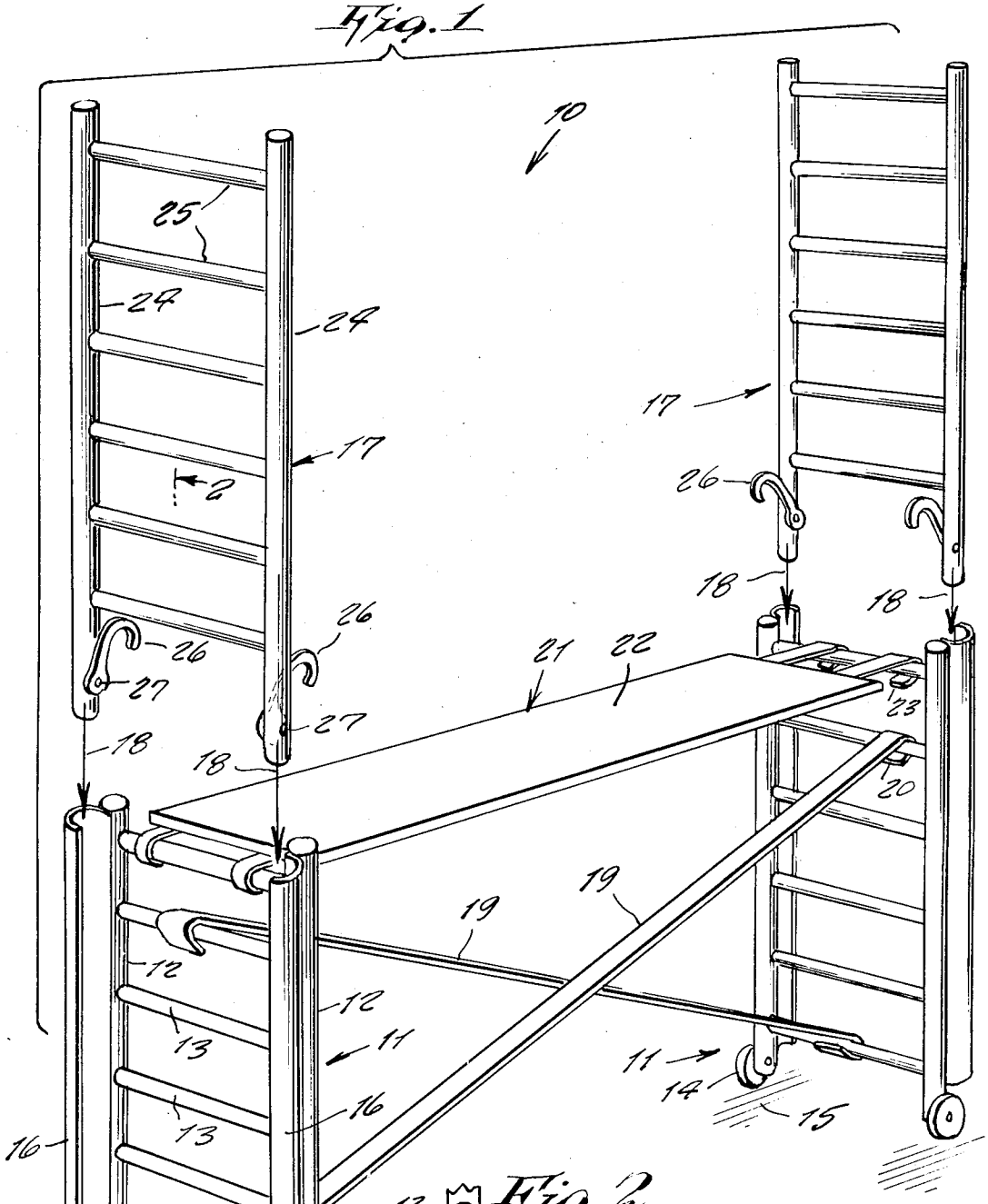


Fig. 2

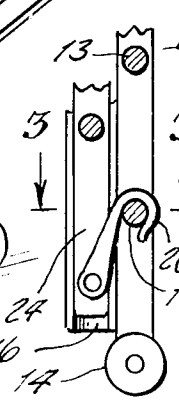
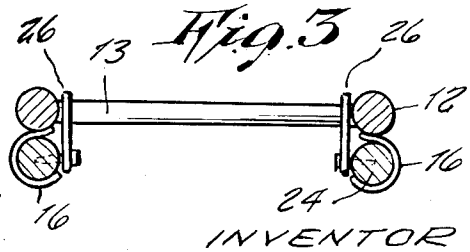


Fig. 3



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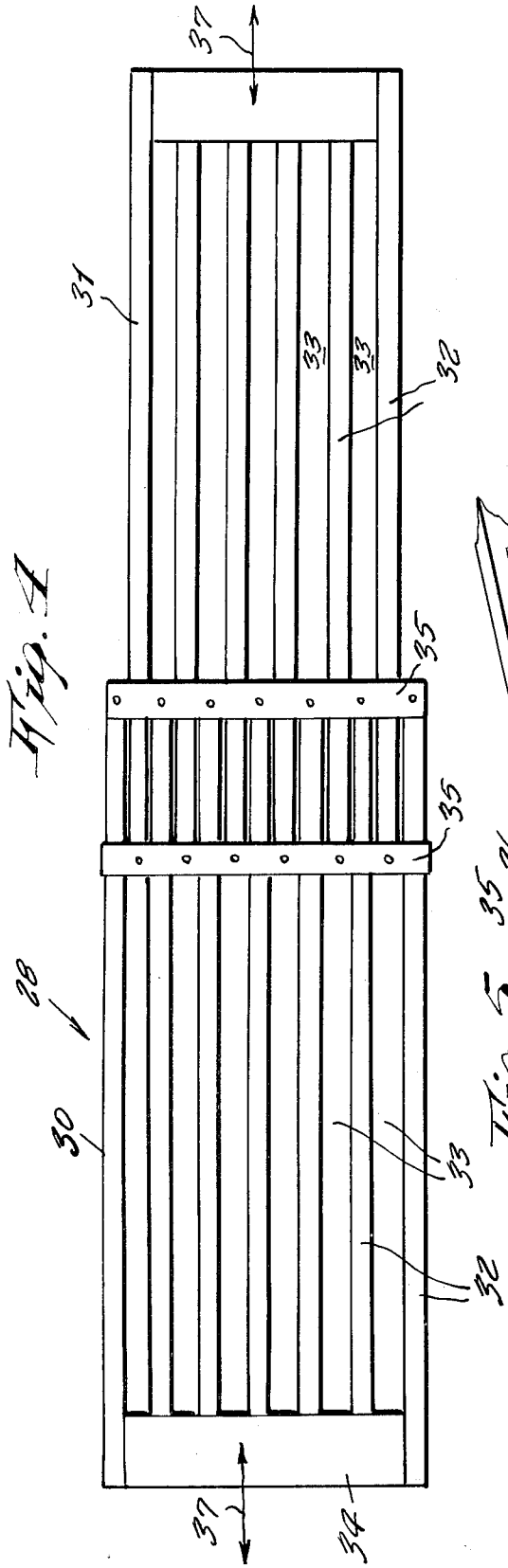


Fig. 4

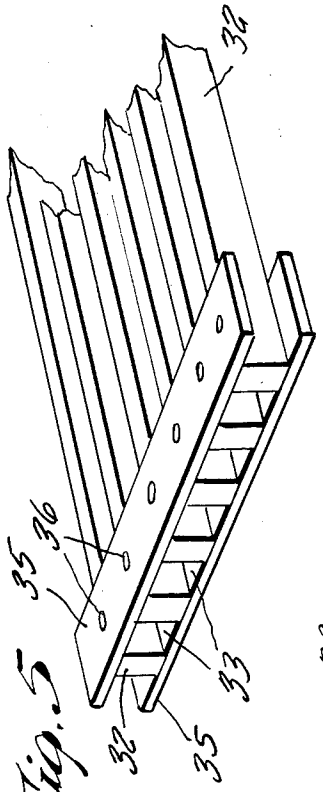


Fig. 5

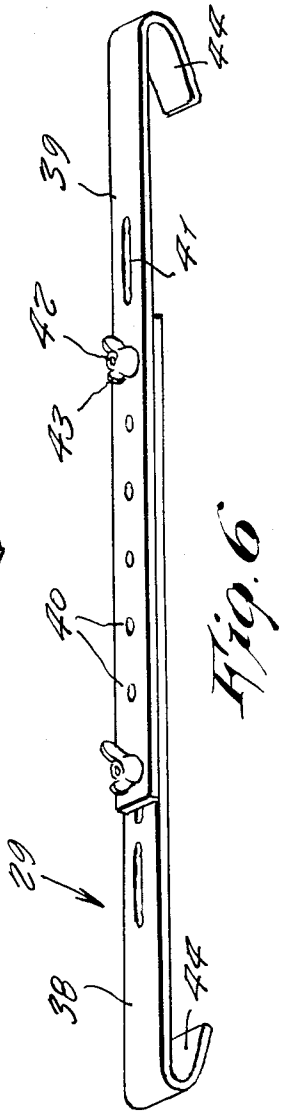


Fig. 6

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EXTENSION SCAFFOLD

This invention relates generally to extension scaffolds.

A principal object of the present invention is to provide an improved extension scaffold, particularly designed for a workingman to reach either a high or low cealing, and which is accordingly adjustable in height.

Another object of the present invention is to provide an extension scaffold which is accordingly suitable for either a short or tall man.

Still another object is to provide an extension scaffold which is adjustable in horizontal length so as to be readily able to be fitted within a room.

Other objects of the present invention are to provide an extension scaffold which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawings wherein:

FIG. 1 is a perspective view of the present invention,

FIG. 2 is a fragmentary cross-sectional view taken on the line 2—2 of FIG. 1,

FIG. 3 is a cross-sectional view taken on the line 3—3 of FIG. 2,

FIG. 4 is a top plan view of a modified design of horizontal platform which is longitudinally telescopic,

FIG. 5 is a fragmentary perspectiave view of one of the sliding members of the telescopic platform illustrated in FIG. 4, and

FIG. 6 is a perspective view of a modified design of brace which is adjustable in length.

Referring now to the drawings in detail, and more particularly at this time to FIGS. 1 to 3 thereof, the reference numeral 10 represents an extension scaffold according to the present invention wherein there are a pair of spaced apart base ladder units 11 each one of which is comprised of a pair of parallel, spaced apart runners 12 between which there are a series of transverse extending rungs 13.

At the lower ends of the runners 12 there are a pair of rollers or wheels 14 so to permit the base ladder unit to travel across the surface of a floor 15, or if used out of doors then being supported upon a ground.

Each one of the runners 12 has a semi-cylindrical guard rail 16 secured to one side thereof so that an extension 17 can be slideably fitted there into as is indicated by the arrows 18.

The base ladder units 11 are supported in an upright position by means of a pair of criss-crossing braces 19 each one of which at their opposite ends is provided with a hook 20 for being fitted around one of the rungs 13 as is shown in FIG. 1 of the drawing.

A horizontal platform 21 can be supported between the base units 11 as shown in FIG. 1, the platform 21 including a rigid panel 22 which at its opposite ends is provided with a pair of extending hooks 23 made of stiff metal bar material, the hooks 23 being adaptable for being hooked about a rung 13 on each one of the base units 11.

Each one of the extensions 17 comprises a ladder member consisting of a pair of parallel, spaced apart runners 24 which are interconnected by means of transverse extending rungs 25 located there between.

The runners are spaced apart a precise distance so that the runners are readily receivable into the guide rails 16.

Near the lower end of each of the runners 24, there is secured a pivotly free hook 26 attached thereto by means of a rivet or bolt 27.

As shown particularly in FIGS. 2 and 3 of the drawing, the extensions are secured at a desired elevation upon the base units by means of the hooks 26 being grasped around a selected one of the rungs 13 of the base unit 11.

It will now be evident that in operative use, the extension scaffold can be directed to accommodate any height of man and accommodating any height of a room ceiling.

Referring now to FIGS. 4 through 6, there is shown a modified design of the invention wherein the above described platform 21 is substituted by a telescopic platform 28 and by longitudinally adjustable braces 29 so that the extension scaffold can be erected in any horizontal length so as to suit the size of a room.

The telescopic platform 28 is comprised of intersliding platform units 30 and 31 each one of which is comprised of a series of parallel, spaced apart beams 32 with spaces 33 there between. The beams 32 in each one of the units are rigidly secured to a transverse member 34, the opposite ends of the beams 32 being secured between an upper and lower metal plate 35 by means of bolts 36.

As shown in FIG. 5 of the drawing, it is now evident that the spaces 33 between the beams 32 are adaptable to receive the beams of the other interslideable unit so that the units are readily telescopic in a longitudinal position, as is indicated by the arrows 37.

Thus there is provided a telescopic platform. In order to accommodate the scaffold length, the above described braces 19 are in this form of the invention substituted by the adjustable braces 29, each one of which is comprised of a pair of brace bars 38 and 39, one of which has a series of openings 40 therethrough and the other of which has a series of longitudinally extending slots 41, the openings 40 and slots 41 being adaptable for receiving interconnecting bolts 42 secured by nuts 43. Thus the braces are adjusted in size so as to accommodate the length of the platform 28 so to form a scaffold of any desired length.

The telescopic brace 29 is, of course, provided with a hook 44 at each opposite end thereof for being received around the rungs 13 of the base unit.

What I now claim is:

1. In an extension scaffold, the combination of a pair of spaced apart ladder base units, each one of said base units being comprised of a pair of parallel, spaced apart runners which are inter-connected by transverse extending rungs, a pair of criss-crossing braces being provided for erecting said base units in an upright position, each one of said braces having a hook at its opposite ends for being hooked around said rungs, and a horizontal extending platform being supported between said base units, said platform at its opposite ends being provided with strong metal hooks for fitting around said rungs, said scaffold including a pair of extensions, each one of said extensions being adaptable for being adjustably secured to said base units, each of said base units having a semi-cylindrical guard rail

secured to each one of said runners, each said extension comprising a ladder member including extensions receivable into said guard rails, said runners being inter-connected by transverse extending rungs, a pivotable hook secured to a lower end of each one of said runners of said extension being adaptable for being hooked selectively around one of said rungs of said base unit, and said platform being telescopic by comprising a pair of interslidable units.

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