Feb. 20, 1945. C. E. LANGDON 2,369,743

PORTABLE SCAFFOLD

Filed Nov. 26, 1943 3 Sheets-Sheet 1

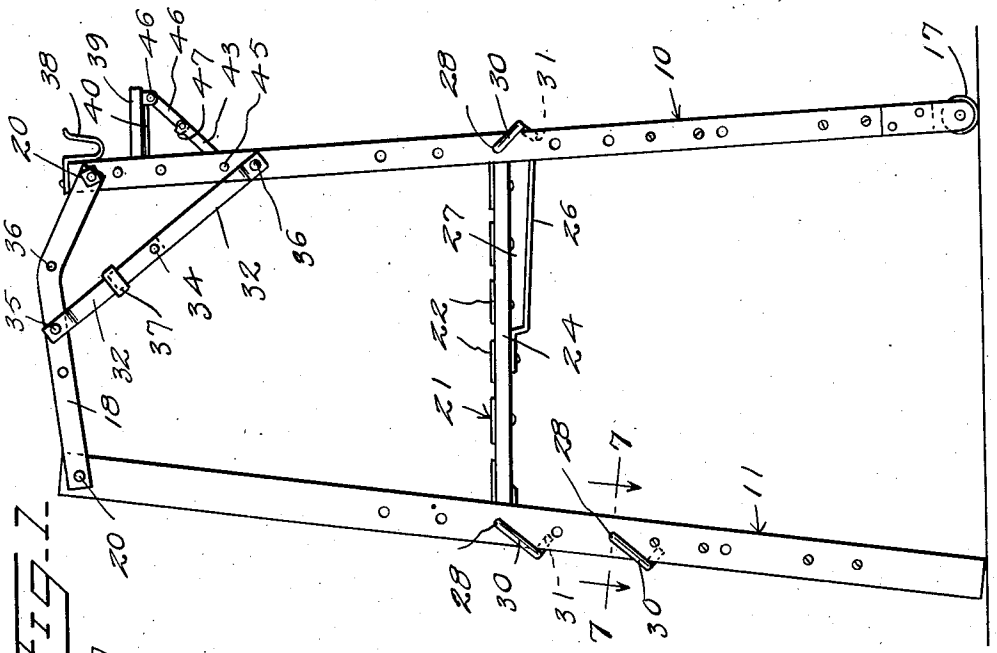


FIG. 1.

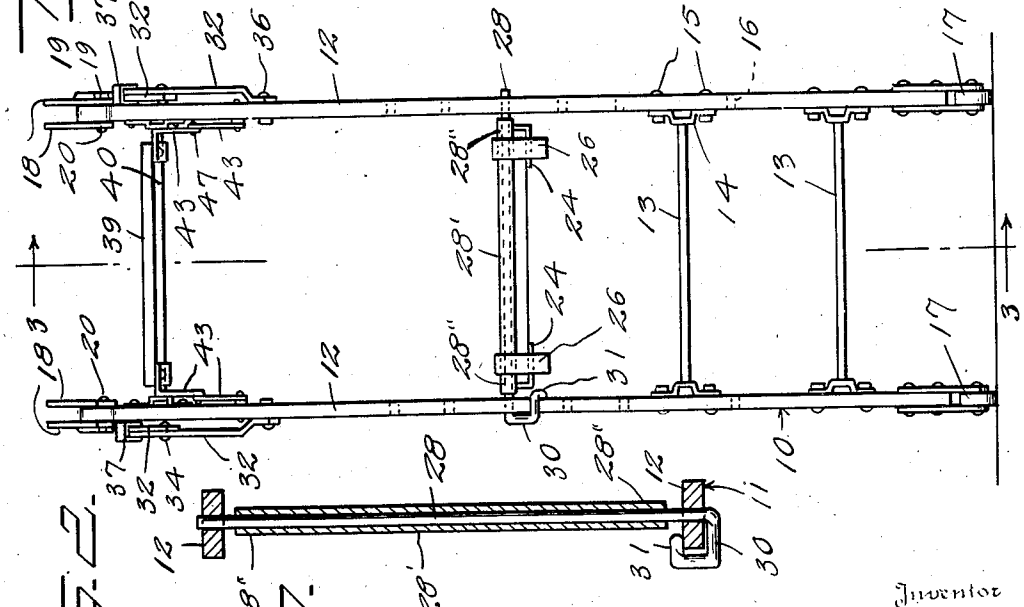


FIG. 2.

FIG. 7.

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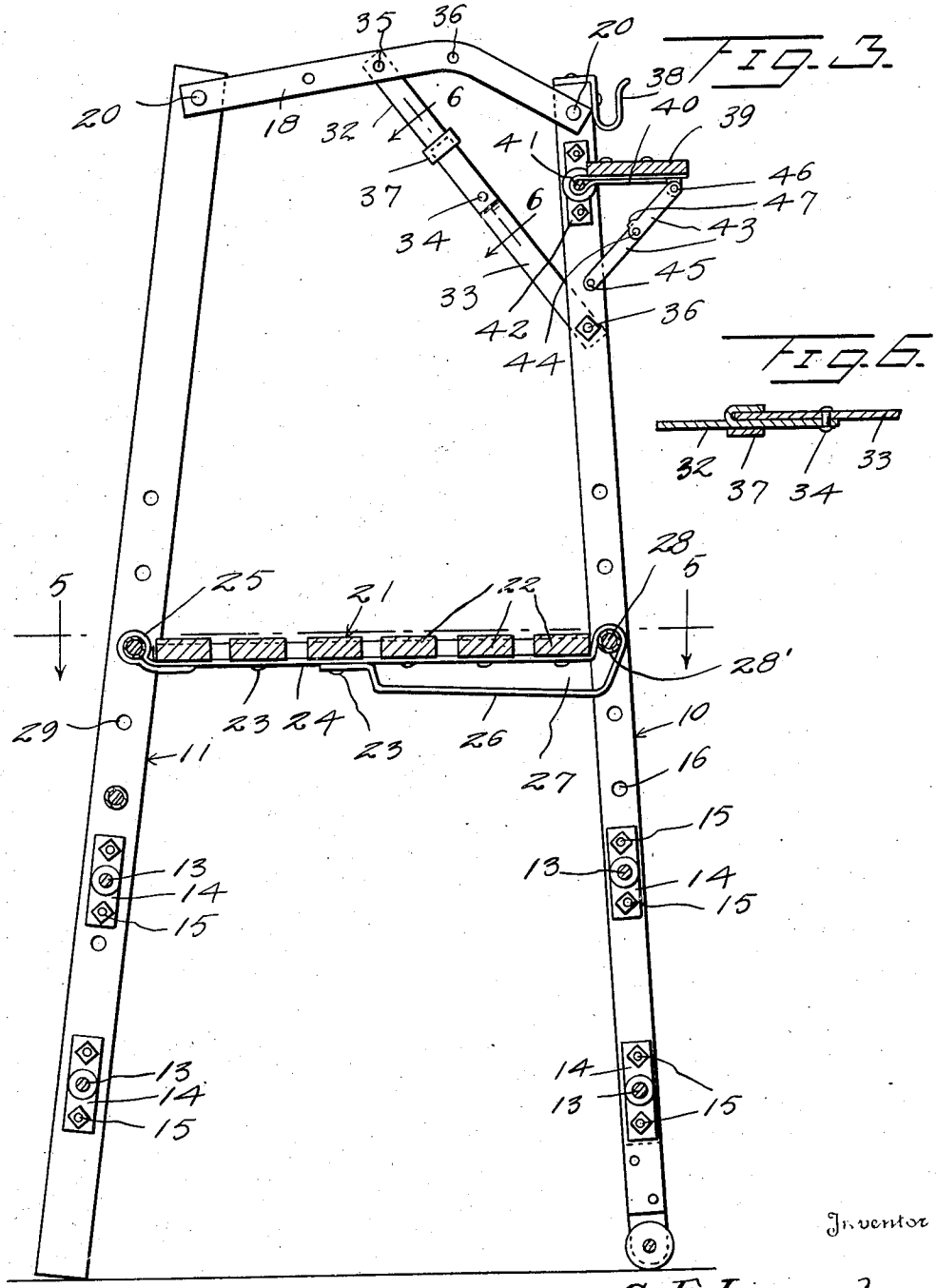


FIG. 3.

FIG. 6.

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Fig. 4.

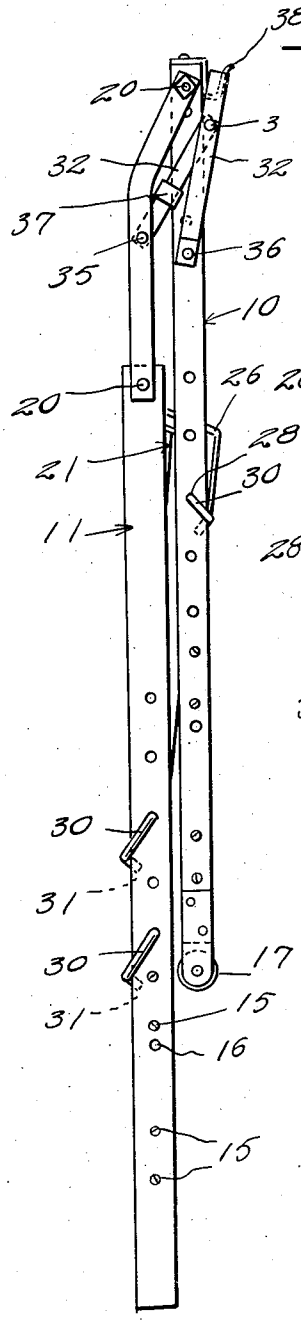


Fig. 5.

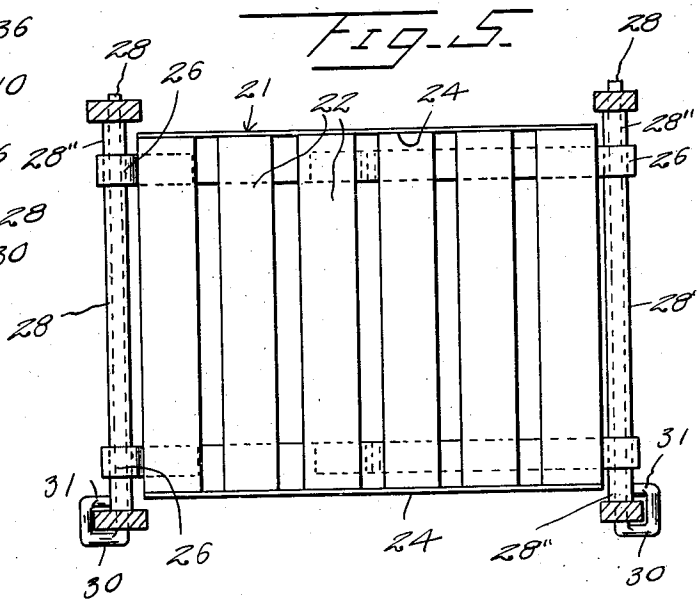
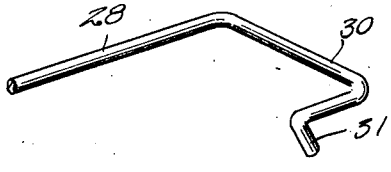


Fig. 6.



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UNITED STATES PATENT OFFICE

2,369,743

PORTABLE SCAFFOLD

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Application November 26, 1943, Serial No. 511,845

2 Claims. (Cl. 304—2)

This invention relates to a portable scaffold.

It is particularly aimed to provide such a structure wherein a platform is employed which readily may be adjusted to various heights and a construction which is collapsible so as to occupy minimum space in transportation and in storage.

Further, it is an object to provide a novel means whereby the rails are connected together in a novel collapsible manner, and wherein a novel means is provided to secure the platform to the rails at different heights or adjustments.

The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawings illustrating an operative embodiment.

In said drawings:

Figure 1 is a view of the structure in side elevation;

Figure 2 is a view thereof in front elevation;

Figure 3 is a vertical sectional view on an enlarged scale taken approximately on the plane of line 3—3 of Figure 2;

Figure 4 is a side elevation showing the parts collapsed into relatively flat form;

Figure 5 is a horizontal sectional view taken on the line 5—5 of Figure 3;

Figure 6 is a detail section taken on the line 6—6 of Figure 3;

Figure 7 is a detail section taken on the line 7—7 of Figure 1; and

Figure 8 is a fragmentary perspective view of one of the platform-fastening rods.

Referring specifically to the drawings, wherein like reference characters designate like or similar parts, I provide front and rear supporting sections generally designated 10 and 11 respectively. Such sections are approximately similar in that each consists of a pair of upright posts or rails at 12, secured rigidly together in spaced relation as by means of suitable connectors or braces 13, fastened thereto as by means of feet 14 and bolts 15, the latter being adapted for passage through different openings 16, thus enabling adjustable positioning of such rods or braces 13. The lower ends of the rails 12 of the front section 10 preferably are provided with rollers 17 fastened thereto in any suitable manner, so as to facilitate the movement of the structure with minimum friction.

Slightly arched top bars are provided at 18, preferably in pairs, bolted or otherwise pivoted as at 19 to the upper ends of the rails 12 of the front section 10 and pivoted as by means of bolts 20 to the upper ends of the rails 12 of the section 11. Such top bars permit sections 10 and 11 to be collapsed or folded into relatively flat contacting relation as suggested in Figure 4.

Mounted adjustably between the sections and so as to be foldable therewith is a suitable platform 21. As shown such platform consists of a plurality of spaced slats 22, by way of example, which are connected together by fastening them at 23 to metallic straps 24, which are returned at one end and shaped into eyes or rings 25, while at the other end relatively long return portions 26 are provided to afford a generally L-shaped elongated slot 27. Portion 26 is fastened to the remainder thereof by one of the elements 23.

Said platform 21 is adapted to be secured at various heights as desired by the work in hand, by passing rods 28 through selected openings 29 arranged in vertical series in the rails on the front and rear sections 10 and 11. Such rods 28 also pass through the eyelets or rings 25 and slots 27, removably, and one end of the rods 28 are formed of C or hook shape at 30, preferably with a deflected or angular free end 31, so that the hook may engage opposite sides of adjacent rails 12 by gravity, thus to prevent displacement or detachment of the rods accidentally from the sections 10 and 11, and accordingly prevent accidental detachment of the platform 21. Spacing and positioning sleeves 28' and 28'' may be arranged on the rods 28.

Due to the elongation of the return portion 26 and slot 27 it will be realized that incidental to folding of the structure from the position of Figure 3 to that of Figure 4 the engaged rod 28 in the slot 27 may slide freely therein to compensate for the folding.

In order to secure the sections 10 and 11 in separated relation as in Figure 3, against accidental folding and collapse, a pair of links 32 and 33, fastened pivotally together at 34, are pivoted respectively at 35 by bolts engageable with any of a series of openings 36 in top bars 18 and by bolts 36' engageable in openings in rails of the section 10. While the links 32 and 33 are adapted to align as shown in Figure 3, yet they readily will break apart and fold at the joints 34. However, sleeves 37 are slidable along the links 32 and 33, particularly to a position enclosing portions of both links, frictionally or otherwise remaining in adjusted position, thereby preventing folding or disalignment of the links 32 and 33 at the pivot 34.

On the section 10, at one or both of the rails 11 I may provide any suitable hook or support-

ing means 38 for a paint can or any other tool or accessory for use in the job at hand.

In addition, I may provide an auxiliary shelf at 39, hinging the same by means of one or more straps 40 on a rod 41, mounted by brackets 42 suitably fastened to the rails 12 of the section 10. Shelf 39 is useful in supporting paint cans, tools, or any other accessories or articles, and it is adapted to be folded into the plane of the section 10. It is maintained extended, however, by a pair of links 43 pivoted together at 44, and in turn pivoted one to the section 10 at 45 and one to the straps 40 at 46. Such links will be maintained at the necessary angle shown in Figure 3 through the abutment of a lug or stop 47 on one of them, with the edge of the companion.

Various changes may be resorted to provided that they fall within the spirit and scope of the invention.

I claim as my invention:

1. A structure of the class described having front and rear supports foldable one against the other, a platform, a rod pivotally mounting the platform on one of the supports, said platform having an elongated slot, a rod passing through said slot and pivotally and slidably mounting the platform for folding movement on the other support, said platform having a one piece strap providing an eyelet at one end and the aforesaid elongated slot at the other end, said eyelet being entered by the first-mentioned rod.

2. A structure of the class described comprising front and rear supports, linkage connecting the supports together for folding of one support relatively to the other into flat condition, a platform, rods pivotally connecting the platform to the supports, said platform having an elongated slot entered by one of the rods whereby the platform is foldable with the supports, said linkage comprising bars pivotally connected to the upper ends of both of the supports and of a length permitting said flat folding of one support against the other, links pivoted together and pivoted to the bars and one of said sections, and means coacting with the links to prevent relative pivotal movement of the links attached thereto and to one of the supports.

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