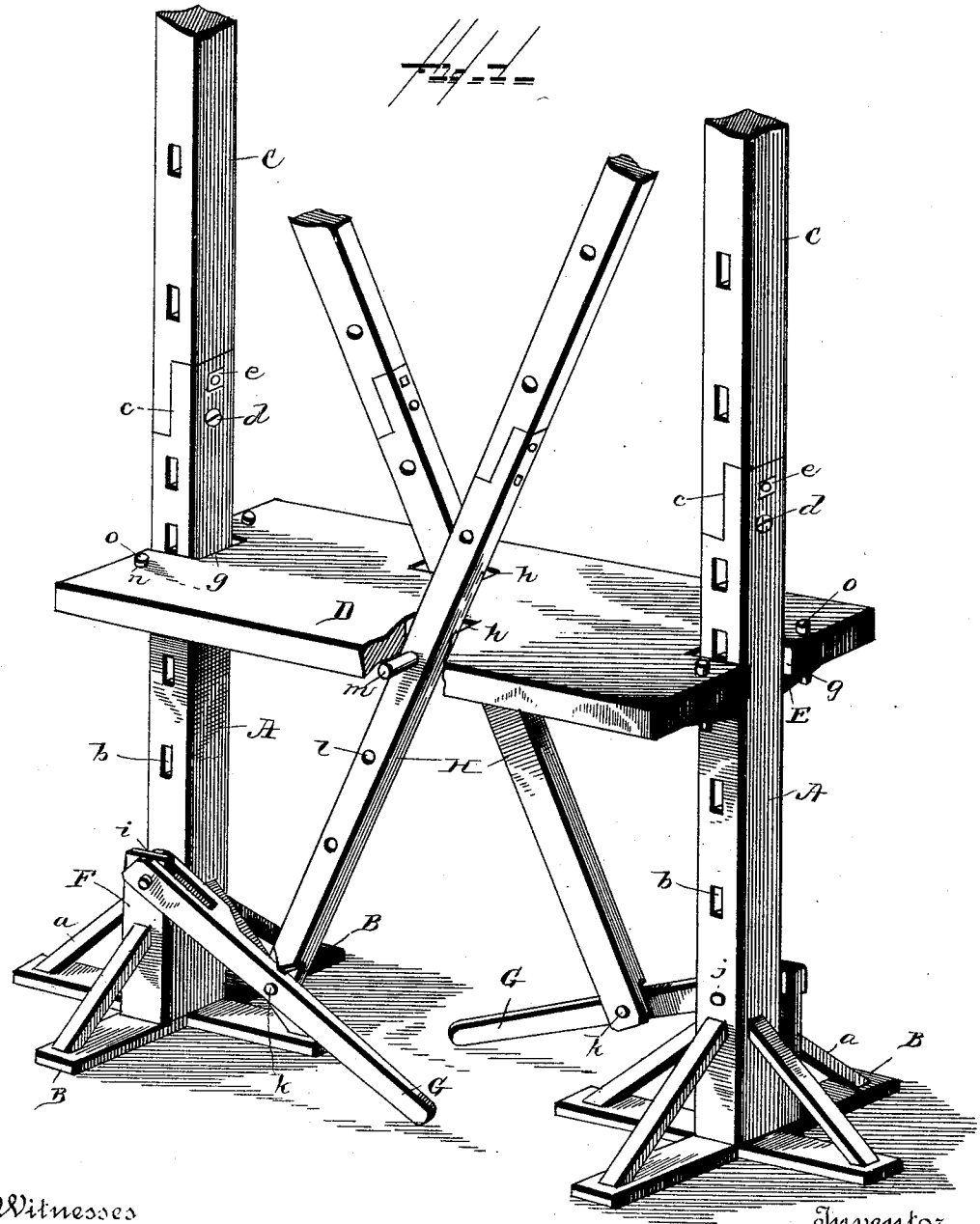
(No Model.) 2 Sheets—Sheet 1.

R. O. SEAT.

SCAFFOLD.

No. 415,223. Patented Nov. 19, 1889.



Witnesses
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E. B. A. Bond

Inventor
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By his Attorney
William Walker

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(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

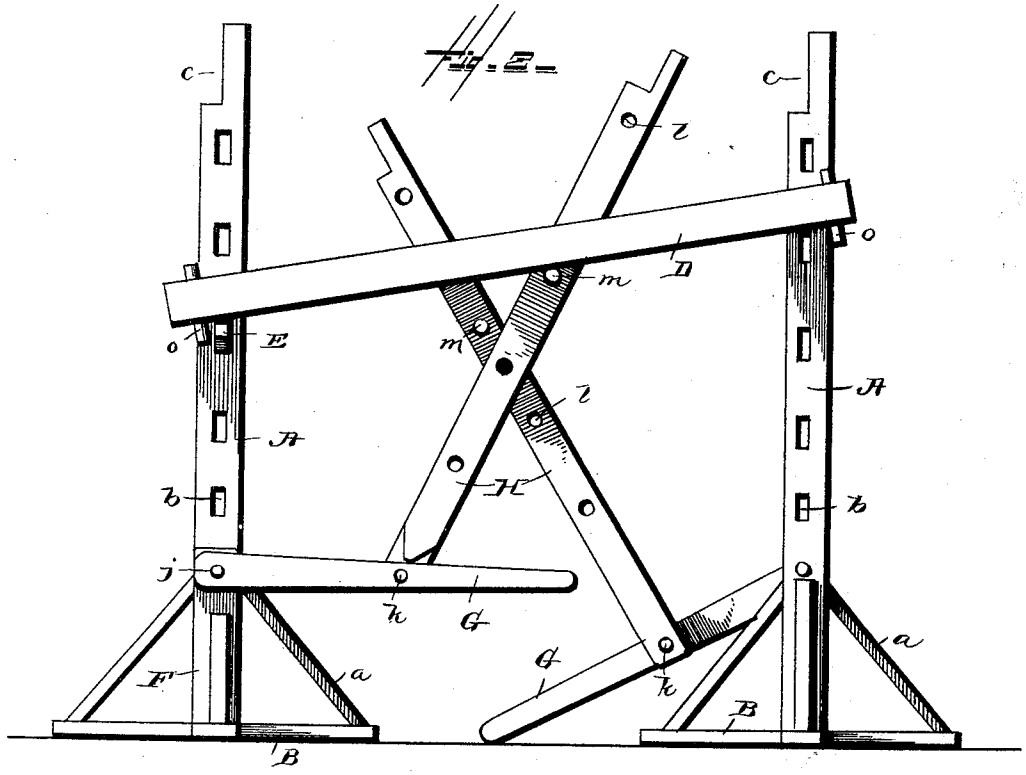
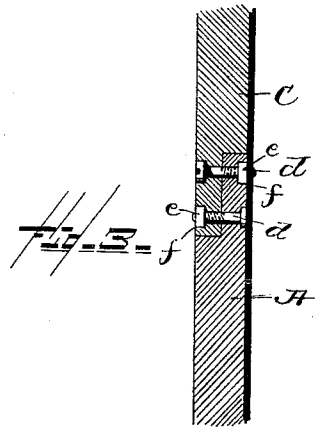


Fig. 3.



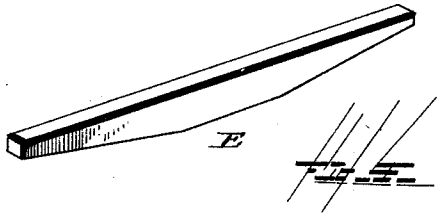


Fig. 4.

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UNITED STATES PATENT OFFICE.

ROBERT O. SEAT, OF CARLYLE, ILLINOIS.

SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 415,223, dated November 19, 1889.

Application filed July 15, 1889. Serial No. 317,517. (No model.)

To all whom it may concern:

Be it known that I, ROBERT O. SEAT, a citizen of the United States of America, residing at Carlyle, in the county of Clinton and State of Illinois, have invented certain new and useful Improvements in Scaffolds, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in scaffolds; and it has for its objects to provide a device of this character which shall be simple in its construction, capable of adjustment with ease either with or without its load, and which shall be strong and durable and very efficient in use.

The novelty resides in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of a scaffold constructed in accordance with my invention, with the upper ends of the posts broken away. Fig. 2 is a side elevation thereof without the extensions of the posts and hoisting or elevating levers. Fig. 3 is a vertical sectional detail, which will be more particularly hereinafter referred to by letters of reference. Fig. 4 is a perspective view of one of the supporting-arms detached.

Referring now to the details of the drawings by letter, A designates the uprights or posts, which are preferably rectangular in cross-section, although other forms may be employed, if desired. The lower ends of these posts are braced in any suitable manner—as, for instance, by means of the inclined braces *a*, and preferably resting on the base B, to which the lower ends of the braces *a* are secured. These posts are provided at suitable distances apart with the transverse rectangular holes *b*, extending through the posts for a purpose hereinafter set forth. These posts are made extensible in length in the following manner: The upper ends of the posts are halved out, as shown at *c*, and the extension-pieces C are also halved out at their lower ends and these halved-out ends fitted together, as shown in Fig. 1, and are thus held by means of the bolts *d*, which pass through suitable holes in the lapped ends, the heads of the bolts being seated in recesses in the posts and extension-pieces and nuts *e* screwed on the opposite ends of the bolts, the nuts being seated in correspondingly-shaped recesses *f* in the posts and extension-pieces to prevent turning of the same, the two bolts in each post and extension-piece being arranged reversely, as shown in Fig. 3—that is, the head on one bolt is on the side of the post opposite the head on the other bolt. This gives greater security against pulling out of the bolts.

D is the platform, formed of suitable material and of the desired length, having at its ends recesses *g* to receive the posts, and near the center of its length with apertures *h*, through which pass the upright lifting arms or levers, as will be hereinafter described.

E are the platform-supporting arms, made easily removable and designed to work in the holes *b* and to support the platform, as will be readily understood from the description hereinafter given. To the side of the posts are the uprights F, having at their upper ends a recess *i* and a hole *j*.

G are the lifting-levers, having one end pivoted to the uprights F by means of a pin passed through the end of the lever and through the hole in said uprights.

H are the upright lifting arms or levers pivoted at their lower ends, as at *k*, to the lifting-levers G, near the center of the length of the latter, and provided at suitable distances apart with transverse openings *l*, through which are passed the pins *m* to engage the under side of the platform, as shown. These upright lifting arms or levers are made extensible in the same manner as the posts.

The operation is simple and is as follows: With the parts in the position in which they are shown in Fig. 1, with a pin *m* passed through one of the openings in the upright arms beneath the platform, by lifting on the lifting-lever G and bringing it into the position shown at the left of Fig. 2 the opposite end of the platform will be raised, as shown in the latter figure, when the attendant on the platform removes the cross supporting-arm E from its hole in the post and places it

in the next higher hole. The other end is then raised in the same manner, the attendant removing the supporting-arms and placing them in higher holes as the platform is raised. The opposite ends of the platform may be raised alternately, or both ends may be raised simultaneously, as may be desired. When both ends are raised simultaneously, there will be two operators on the ground—one at each lever—as will be readily understood. After removing the supporting-arms and placing them in higher holes the attendant then removes the pins from the upright arms and places them in higher holes, when the operation is repeated.

At each end of the platform I provide vertical holes *n*, through which are passed the pins *o*, which bear against the outer face of the supporting-arms and prevent endwise movement of the platform, said pins being readily removable when desired.

What I claim as new is—

1. The combination, with the posts and platform movable vertically on said posts, of the lifting-levers pivoted near the lower ends of said posts, the upright arms connected with the levers, and the removable pins and supporting-arms, substantially as shown and described.

2. The combination, with the extensible posts and the platform movable on said posts, of the extensible upright lifting-arms, the lifting-levers, and the removable supporting-arms and pins, all substantially as shown and described.

3. The combination, with the posts and the platform provided near the center of its length with apertures, as shown, of the lifting-levers pivotally connected with the posts, near the lower ends thereof, the upright lifting-arms pivotally connected at their lower ends with the lifting-levers and passed through the apertures in the platform, the removable pins, and the removable supporting-arms, substantially as shown and described.

4. The combination, with the posts and platform, of the lifting-levers, the upright arms, the supporting-arms, and the vertical pins passed through openings in the ends of the platform and bearing against the outer faces of the supporting-arms, substantially as shown and described, and for the purpose specified.

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

ROBERT his + mark O. SEAT.

Attest:
PORTER W. BROWN,
JOHN J. MCGAFFIGAN.