

M. A. CHEVES.  
SCAFFOLD.

APPLICATION FILED NOV. 14, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 2.

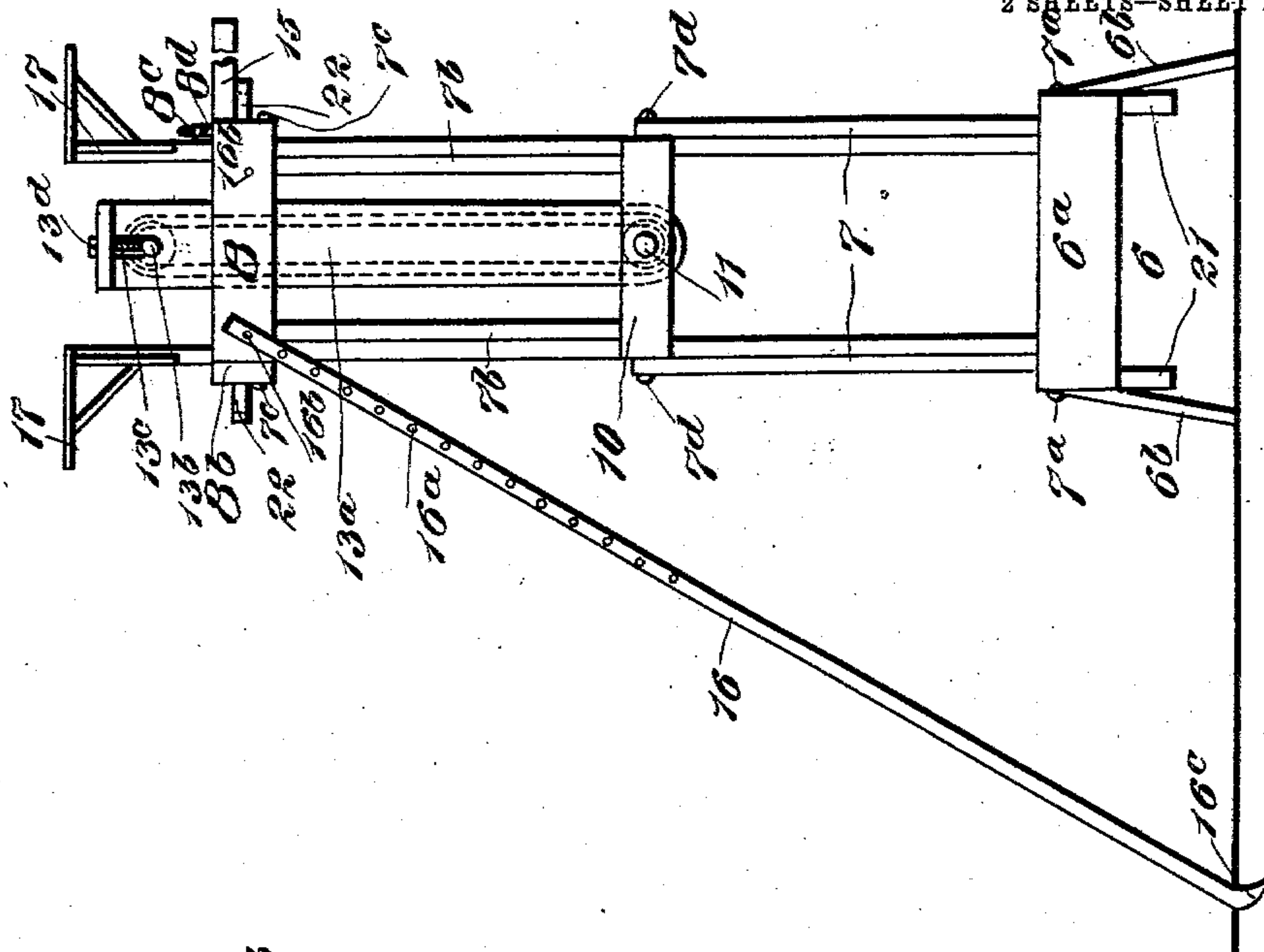
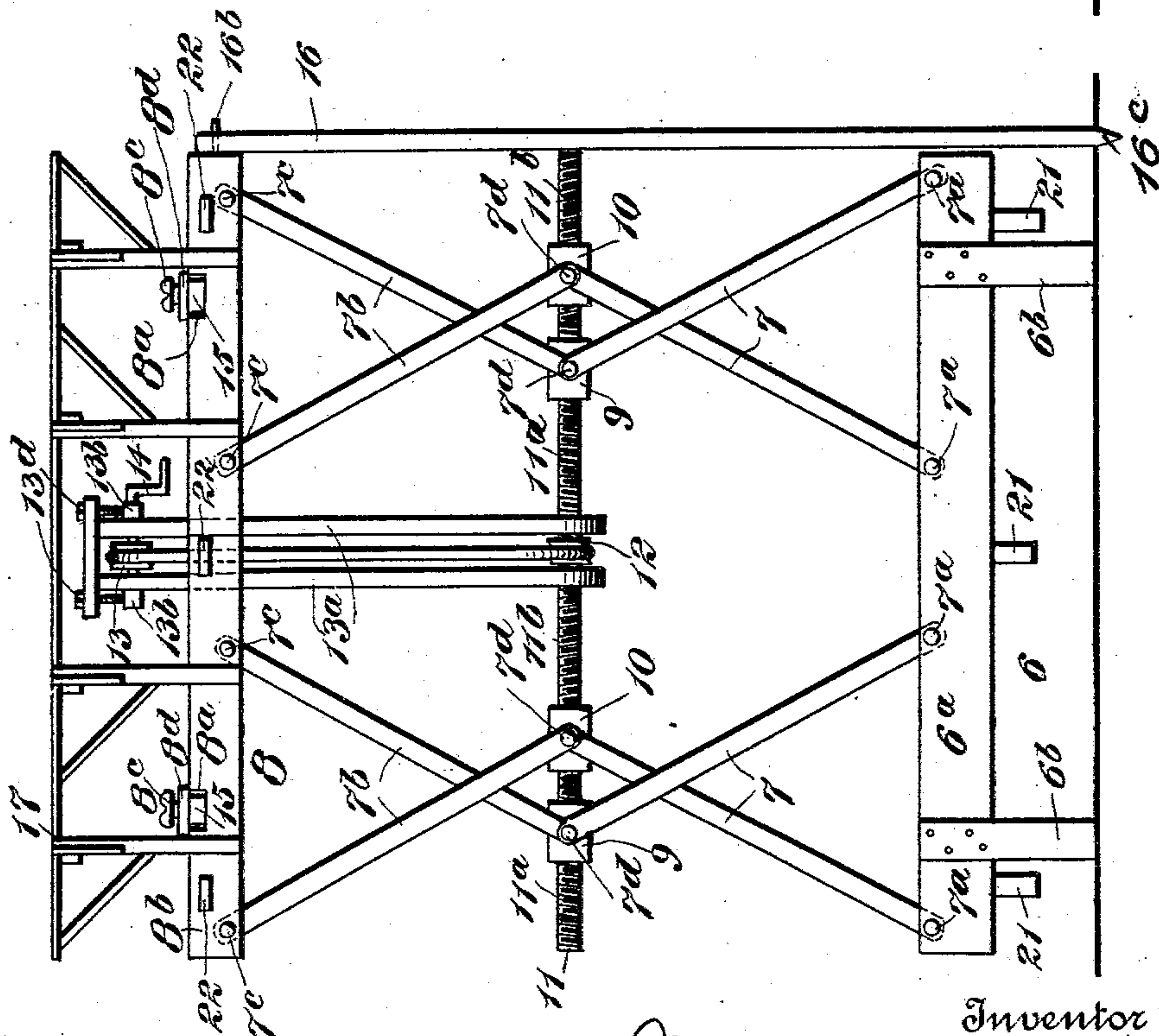


Fig. 1.



Witnesses

J. A. Barrow  
Maschmitt

Inventor

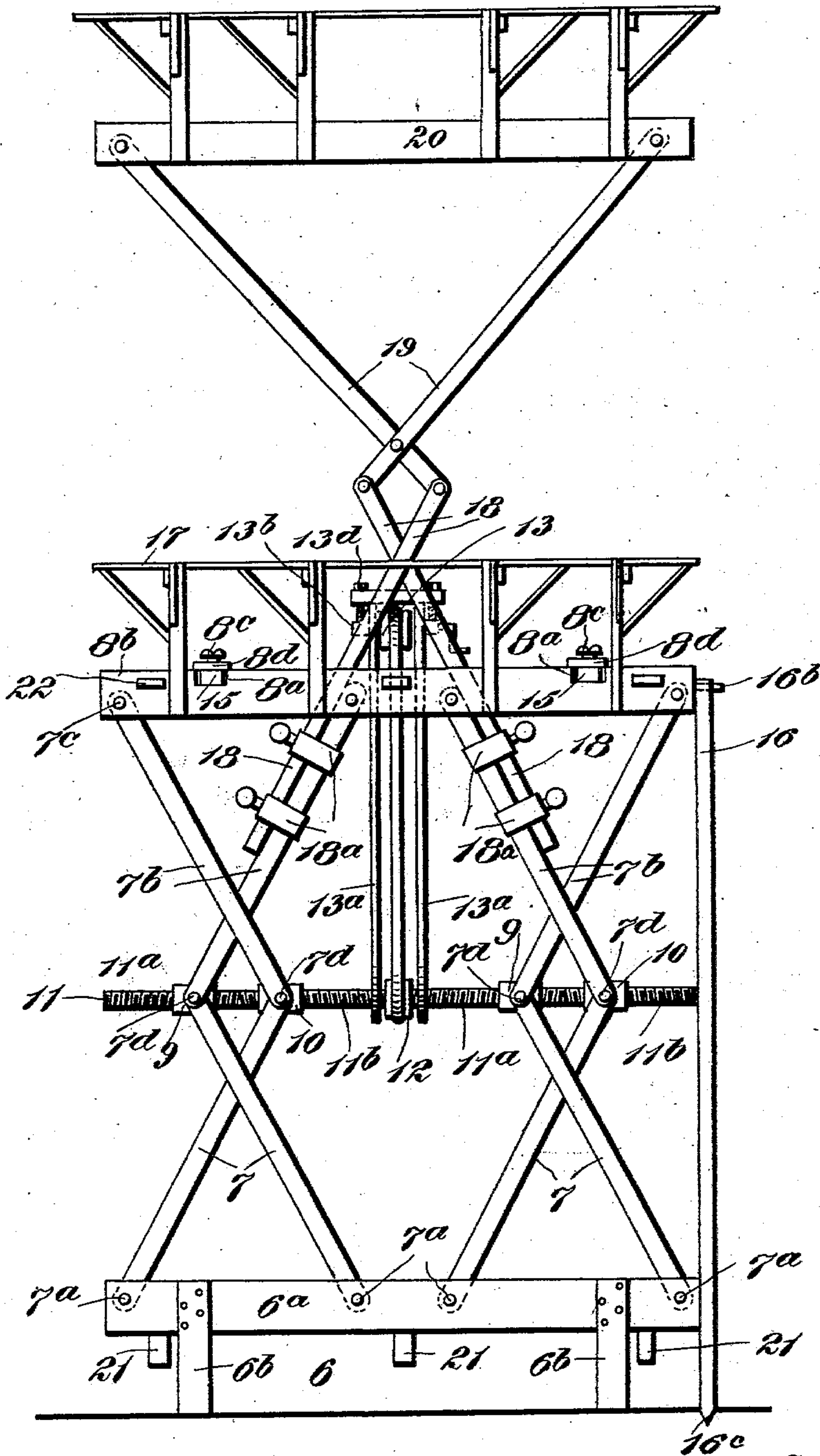
Merrell A. Cheves  
By Milo B. Stevens & Co.  
Attorneys

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NO MODEL.

2 SHEETS—SHEET 2.



Witnesses  
J. A. Barron.  
M. A. Schmidt

Fig. 3. M. A. Cheves  
By Milo B. Stevens  
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# UNITED STATES PATENT OFFICE.

MERRELL AUTRY CHEVES, OF MARSHALL, TEXAS.

## SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 740,398, dated October 6, 1903.

Application filed November 14, 1902. Serial No. 131,347. (No model.)

*To all whom it may concern:*

Be it known that I, MERRELL AUTRY CHEVES, a citizen of the United States, residing at Marshall, in the county of Harrison and State of Texas, have invented certain new and useful Improvements in Scaffolds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to extension-scaffolds, and comprises a platform carried on toggles, which are operated from said platform to raise or lower the same.

The object of my invention is to provide means for extending the scaffold to considerable height when necessary and also for securing two or more scaffolds together.

A further object is to provide a strong and rigid structure having no complicated parts and which may be easily manipulated.

In the drawings, Figure 1 is front elevation of my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a front elevation showing the manner of extending the toggles to raise a secondary platform to a greater height.

Referring specifically to the drawings, 6 indicates the base of the scaffold, and comprises the side timbers 6<sup>a</sup>, standing on legs 6<sup>b</sup>. The toggles are arranged in pairs, and comprise the lower toggle-bars 7, pivoted to the side timbers 6<sup>a</sup> at 7<sup>a</sup>. The upper toggle-bars 7<sup>b</sup> are pivoted to the platform 8 at 7<sup>c</sup>. The bars 7 and 7<sup>b</sup> are pivotally connected at 7<sup>d</sup> to knee-blocks 9 and 10. The screw 11 passes through a threaded bore in the blocks. The screw comprises two sections, one for each pair of toggles, and each section has a right thread 11<sup>a</sup> and a left thread 11<sup>b</sup> for the respective knee-blocks, the block 9 traveling on one thread and the block 10 on the other. When the screw is turned, the blocks move oppositely to raise or lower the platform.

Means for turning the screw consists of a grooved pulley 12, secured thereto and driven by a rope belt from another pulley 13, turned

by a suitable hand-crank 14. If desired, a chain and sprockets may be used. The pulley 13 is supported on standards 13<sup>a</sup>, which are loosely mounted on the screw 11 and extend loosely through the floor of the platform 8. To tighten the belt, the bearing-boxes 13<sup>b</sup> of the shaft of the pulley 13 are slidable in slots 13<sup>c</sup> at the top of the standard, and the belt is held in proper tension by screws 13<sup>d</sup>.

To steady the scaffold, I provide putlogs 15, which set against the house or other structure. Said putlogs are slidingly mounted in slots 8<sup>a</sup> in the ledgers 8<sup>b</sup> of the platform and are adjusted to the desired distance by thumb-screws 8<sup>c</sup> in the block 8<sup>d</sup>, secured to the ledgers. Lateral braces 16 extend from the end of the platform to the ground. They are adjustable for different heights by means of a series of holes 16<sup>a</sup> and pins 16<sup>b</sup>, projecting from the platform. The lower ends of the braces have claws or spikes 16<sup>c</sup> to enter the ground. Brackets 17, removably secured to the platform 8, are for the purpose of holding lumber, tools, &c.

To use the scaffold at a considerable height, the modification shown in Fig. 3 is employed. The upper bars 7<sup>b</sup> of the toggles are lengthened by lazy-tongs, comprising arms 18, joined to the bars by screw strap-clamps 18<sup>a</sup>, and arms 19, pivoted to the ends of the arms 18. The extension thus formed carries a suitable platform 20.

Two or more scaffolds may also be superposed. For this purpose I provide pins 21, secured to the side timbers 6<sup>a</sup>, to enter staples 22 on the ledgers 8<sup>b</sup>, the brackets 17 being first removed from the platform 8.

It will be seen that the hoisting device can be operated by a workman on the platform.

Having thus described my invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A scaffold comprising a base, a platform, hoisting-toggles between the same, removable lazy-tongs secured to said toggles, a platform carried by the lazy-tongs and means to operate the toggles, substantially as shown and described.

2. A scaffold comprising a base and a platform, toggle-bars pivoted thereto, knee-blocks

therebetween to which the toggle-bars are pivoted, a screw extending horizontally through the knee-blocks, a pulley on the screw, standards supported by the screw and  
; extending above the platform, a second pulley journaled in the standards above the platform, a belt connecting the pulleys, and a crank on the platform-pulley operating the

same to turn the screw, substantially as described.

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

MERRELL AUTRY CHEVES.

Witnesses:

M. B. PANCHMAN,

T. L. WHALEY.