

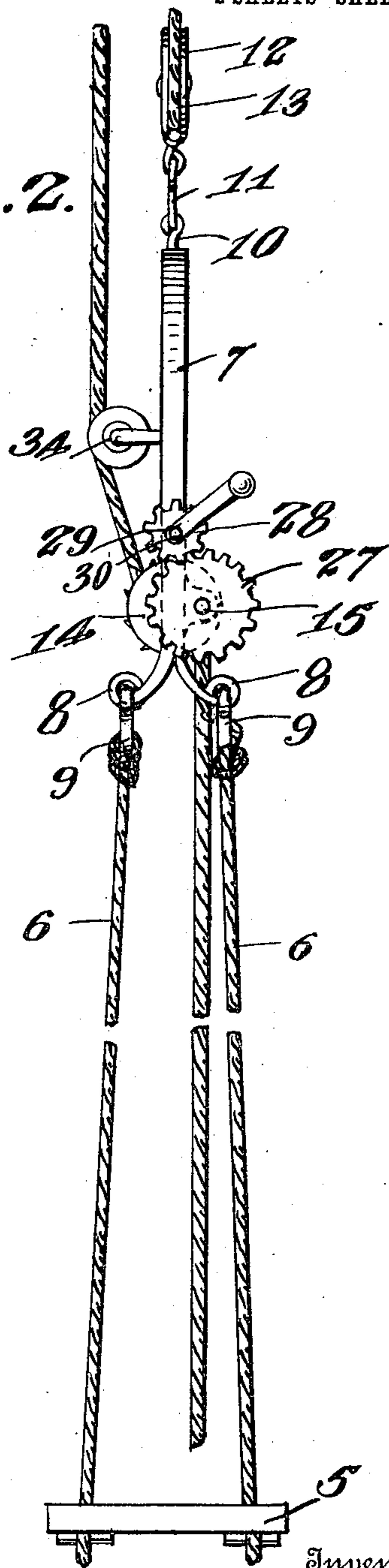
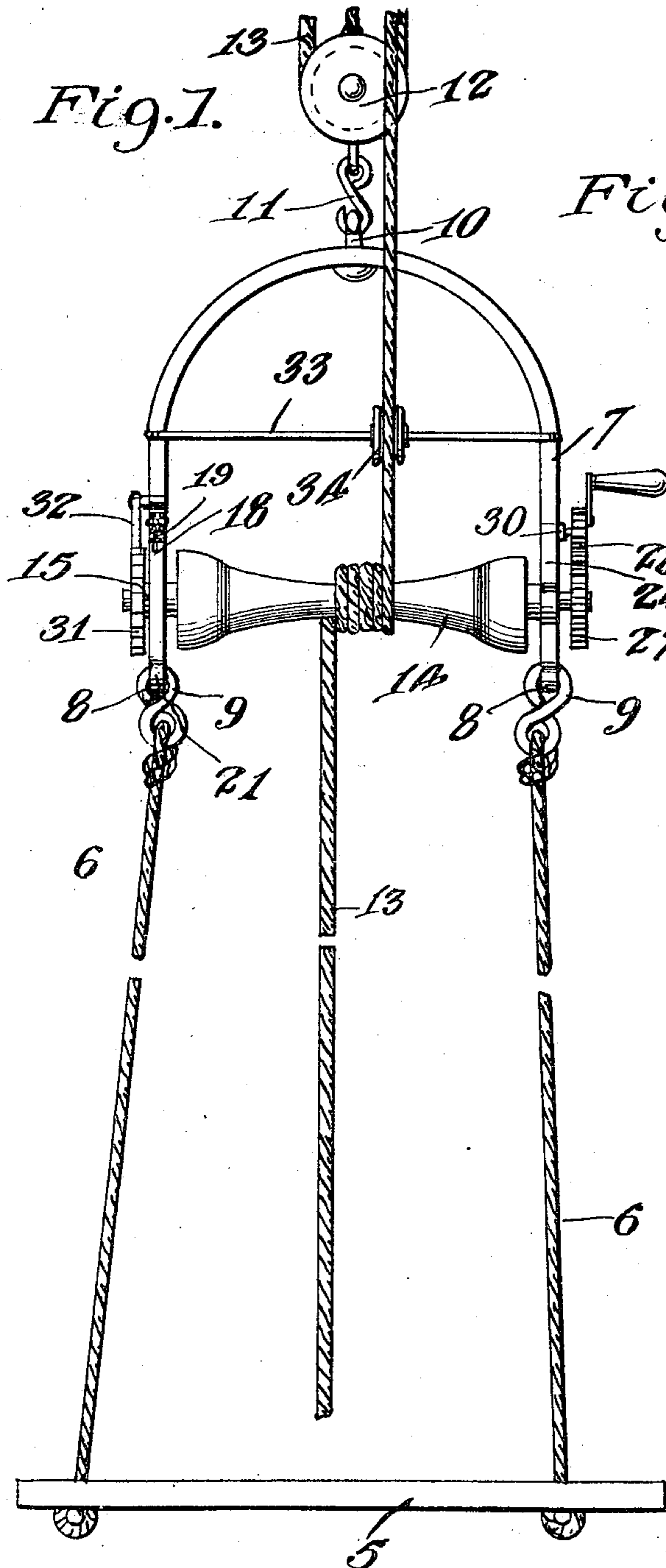
C. CALSON.
SCAFFOLD CHAIR.

APPLICATION FILED FEB. 7, 1910.

960,501.

Patented June 7, 1910.

2 SHEETS—SHEET 1.



Witnesses:—

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E. M. Ricketts

By

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Christy Calson
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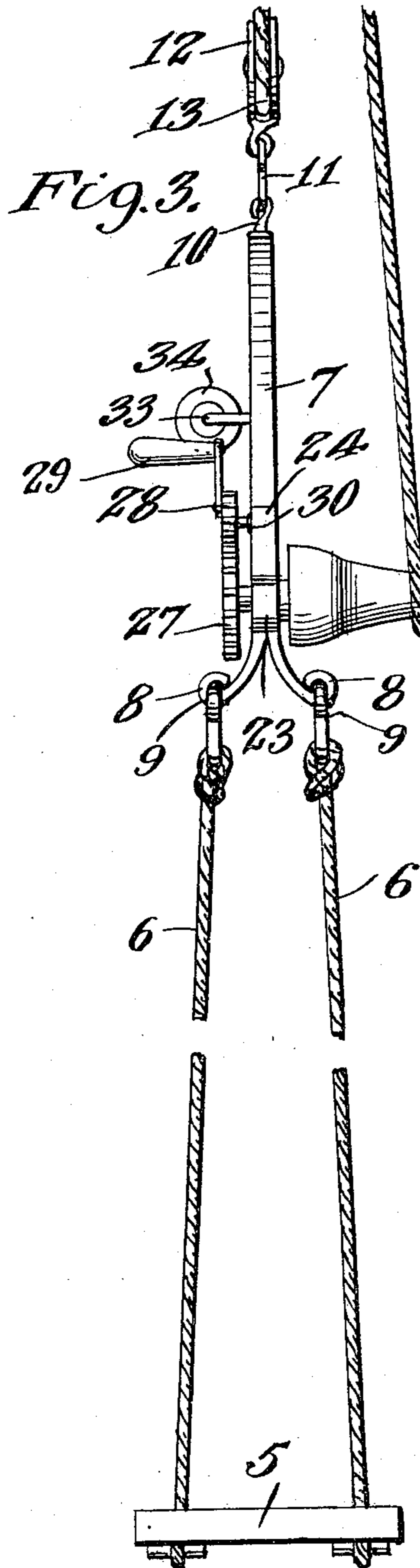


Fig. 4.

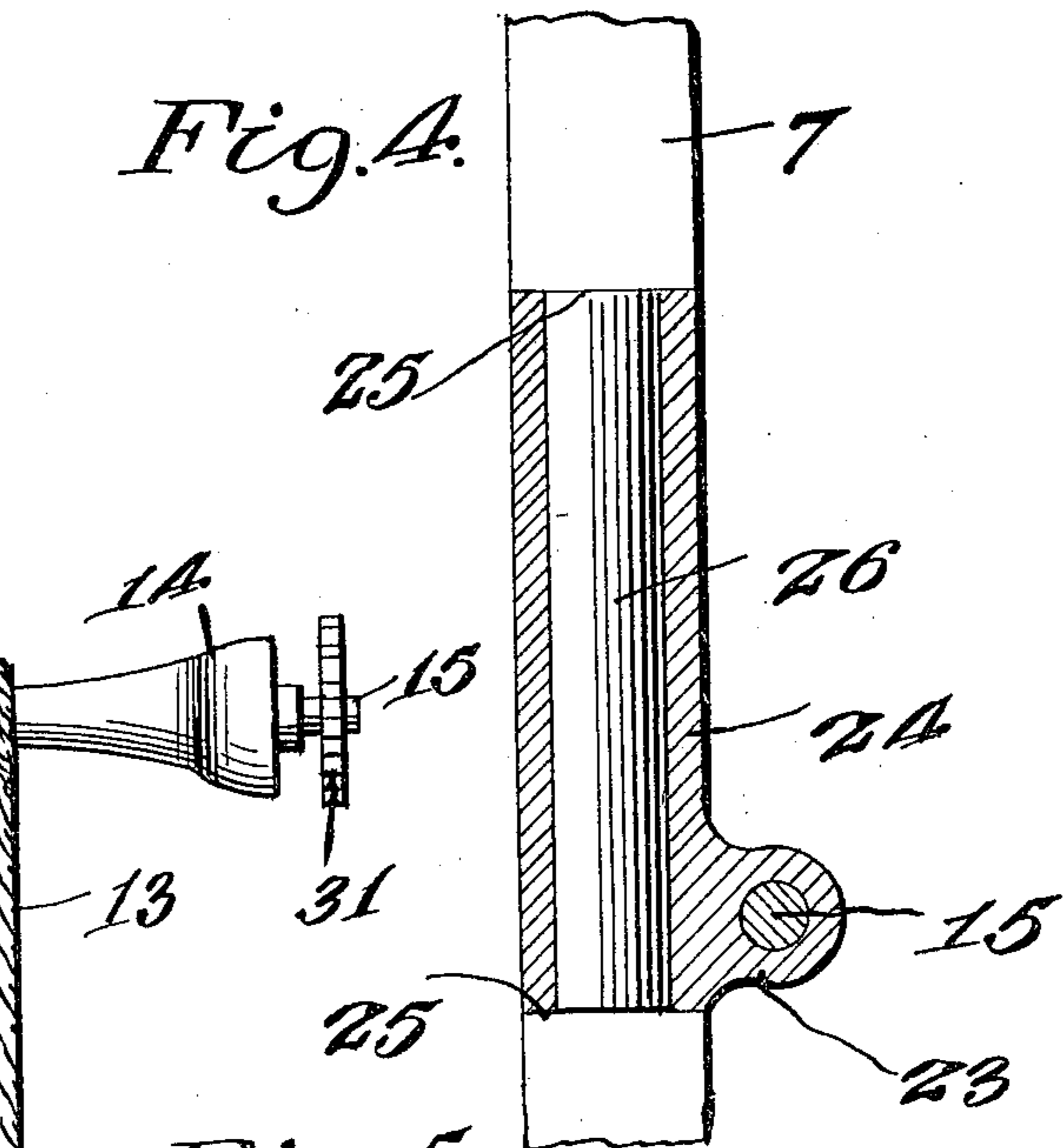
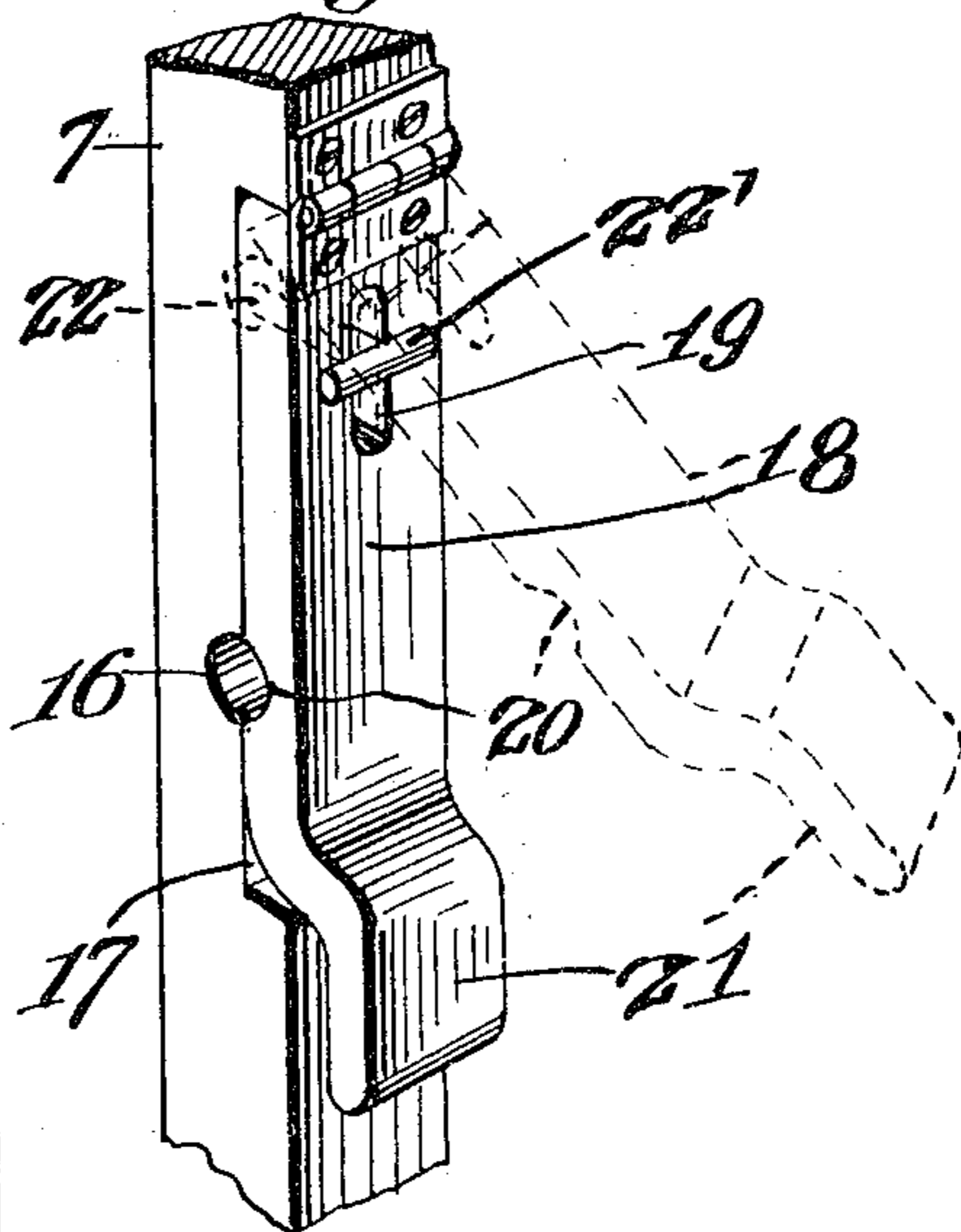


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHRISTY CALSON, OF SOUTH BEND, WASHINGTON.

SCAFFOLD-CHAIR.

960,501.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed February 7, 1910. Serial No. 542,541.

To all whom it may concern:

Be it known that I, CHRISTY CALSON, a citizen of the United States, residing at South Bend, in the county of Pacific and State of Washington, have invented certain new and useful Improvements in Scaffold-Chairs, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain new and useful improvements in scaffolds of that type which are adapted to be raised and lowered by the occupant thereof.

15 The primary object of my invention is to provide a device of the above character which is simple in construction, may be easily operated and can be produced at a minimum cost.

20 A further object is to provide a chair seat suspended from the ends of a yoke frame in which the winding drum is mounted, said drum being pivoted at one end for transverse swinging movement.

25 With these and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

30 Figure 1 is a side elevation illustrating one embodiment of the invention; Fig. 2 is an end elevation; Fig. 3 is a similar view showing the drum swung outwardly in the yoke frame; Fig. 4 is an enlarged detail section of one end of the frame showing the pivotal mounting of the drum; and Fig. 5 is a detail perspective view of the locking means.

40 Referring to the drawings 5 indicates the chair seat which is preferably rectangular in form and is suspended by means of the ropes 6 from the ends of a yoke 7. The ropes extend through the seat adjacent to its corners and are knotted or otherwise provided with suitable means to prevent them being pulled through the openings in the seat board. The extremities of the yoke are formed with the eyes 8 which are adapted to receive a link 9 attached to the upper ends of the suspending ropes. The center of the bight portion of the yoke has an eye 10 swiveled therein through which a hook 11 engages, said hook depending from a sheave 12. A rope or cable 13 passes around the sheave 12 and over a similar sheave secured to a stationary beam in the usual manner.

One end of the cable is also secured to this beam.

A drum 14 is rotatably mounted in the ends of the yoke 7. This drum is provided in each of its ends with a stud shaft 15 which are journaled adjacent to the ends of the yoke arms. One of these studs is removably engaged in the yoke and is seated in a groove 16 in the recessed portion 17 thereof. A locking plate 18 is hinged to the arm at the upper end of this recess and is provided with an opening 19 there-through. This plate is adapted to be disposed within the recess 17 and is likewise formed with a groove 20 to accommodate the stud shaft 15 of the drum. The lower end of the locking plate is bent outwardly to provide a handle portion 21 by means of which it may be raised and lowered. A T-shaped pin 22 is swiveled in the yoke arm and the lateral extensions 22' thereof are adapted to be disposed at right angles to the opening 19 upon the outer face of the locking plate to prevent its outward movement. When these extensions are disposed in alinement with the opening 19, the plate may be readily swung outwardly from the arm and the drum removed. The other end of the drum has its stud shaft journaled in a short arm 23 which is integrally formed with a sleeve 24. This sleeve is rotatably disposed between the shoulders 25 formed by reducing the yoke arm, as at 26.

The shaft 15 extends beyond the arm 23 and has secured thereon a gear 27 which meshes with a pinion 28 carried by a crank handle 29 the end of which is journaled in a boss 30 formed on the sleeve 24. A ratchet 31 is also secured on the other of the stud shafts beyond the yoke arm and a pawl 32 pivoted on the yoke is engaged therewith and prevents retrograde rotative movement of the drum. A longitudinal rod 33 has its ends secured in the opposite sides of the yoke and a spool 34 is loosely disposed thereon for sliding movement.

In the operation of the device, the cable 13 is extended over the sheaves as above described and is disposed in the groove of the wheel or spool 34 from whence it is coiled around the drum. The occupant takes his position on the seat and upon operating the crank handle 29 the device will be elevated to any desired height, as can be readily seen. Should he desire to lower himself, the pawl 32 is lifted from the teeth of the ratchet 31

and owing to the weight of the occupant the cable will be rapidly uncoiled from the drum. The rapidity of the descent of the chair may be controlled by grasping the
 5 dangling portion of the cable below the drum. When the proper position is reached the pawl is released and the chair securely held from further downward movement. At times it may become necessary for the
 10 occupant to stand erect on the chair seat and in such a case the drum may be swung transversely in the yoke by simply lifting the locking plate 18 and moving the stud 15 outwardly from the yoke arm. During such
 15 movement of the drum the sleeve 24 rotates upon the reduced portion 26 of the other yoke arm. It will, of course, be understood that the cable 13 must first be secured to prevent the same from unwinding from the
 20 drum. In this manner the occupant will have ample room in which to stand erect.

From the foregoing it will be seen that I have provided a scaffold chair which may be easily raised or lowered by the occupant
 25 without the necessity of him leaving his seat. The device is absolutely safe and the great amount of time required to erect scaffolding in the customary manner, is eliminated.

30 The invention will be found particularly desirable in the painting of the hulls of sailing vessels and on all other occasions where a secure platform cannot be erected. It is, moreover, light in weight while the maximum of strength and durability demanded
 35 in a device of this character is attained.

The form of the device shown and described represents what I believe to be the preferred embodiment of my invention, but
 40 it will be understood that numerous minor modifications may be resorted to within the scope of the claims without departing from the spirit or sacrificing any of the advantages of my invention.

45 Having thus described the invention what is claimed is:

1. A device of the character described comprising a frame, a seat suspended from said frame, a rotatable drum pivotally
 50 mounted at one end in said frame for swinging movement and means for locking said drum in the frame, substantially as and for the purpose set forth.

2. A device of the character described
 55 comprising a frame, a seat suspended from said frame, a drum having a stud shaft in each end thereof mounted in said frame, means for pivotally supporting one of said stud shafts whereby the drum may be swung
 60 outwardly into a horizontal plane, movable

means carried by said frame adapted to engage the stud on the other end of said drum, locking means adapted to secure the last named means against movement, and means
 65 for rotating said drum, substantially as and for the purpose set forth.

3. A device of the character described comprising a U-shaped frame, a seat suspended from the ends of said frame, a drum
 70 having a stud shaft in each end thereof journaled in the frame, one end of said drum being pivotally mounted for transverse swinging movement, the other of said shafts being seated in a groove in the arm of said frame, a locking plate hinged to said frame
 75 arm and having a groove therein to receive said shaft, a bolt swiveled in the arm adapted to extend through a slot in said plate, said pin having lateral extensions on its outer end adapted to be turned at right
 80 angles to said slot to secure the plate in locking position, means for rotating said drum, and means for holding the drum against retrograde rotative movement, substantially as
 85 and for the purpose set forth.

4. A device of the character described comprising a U-shaped frame, a seat suspended from said frame, a drum having a
 90 stud shaft in each end thereof, one of said shafts being removably held in one arm of the frame, means for locking said shaft therein, the other of said arms having a reduced cylindrical portion, a sleeve rotatable on said reduced portion having an arm
 95 integrally formed therewith, the other shaft of said drum being journaled in said arm, means for rotating said drum, and means for holding the drum against retrograde rotative movement, substantially as and for
 100 the purpose set forth.

5. A device of the character described comprising a U-shaped frame, a seat suspended from the ends of said frame, a drum
 105 rotatably mounted in the arms of said frame, one end of said drum being pivotally supported in the frame, the other end of said drum being removable from the frame arm, whereby the drum may be swung in a horizontal plane, a longitudinal rod secured in the frame arms above the drum, a guide
 110 wheel longitudinally movable on said rod, and means for rotating said drum, substantially as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 115

CHRISTY CALSON.

Witnesses:

JOSEPH LEBER,
 JOSEPH MYKOL.