

No. 847,376.

PATENTED MAR. 19, 1907.

G. SCHEIHING.
HAY STACKER.

APPLICATION FILED JUNE 30, 1906.

3 SHEETS—SHEET 1.

Fig. 1.

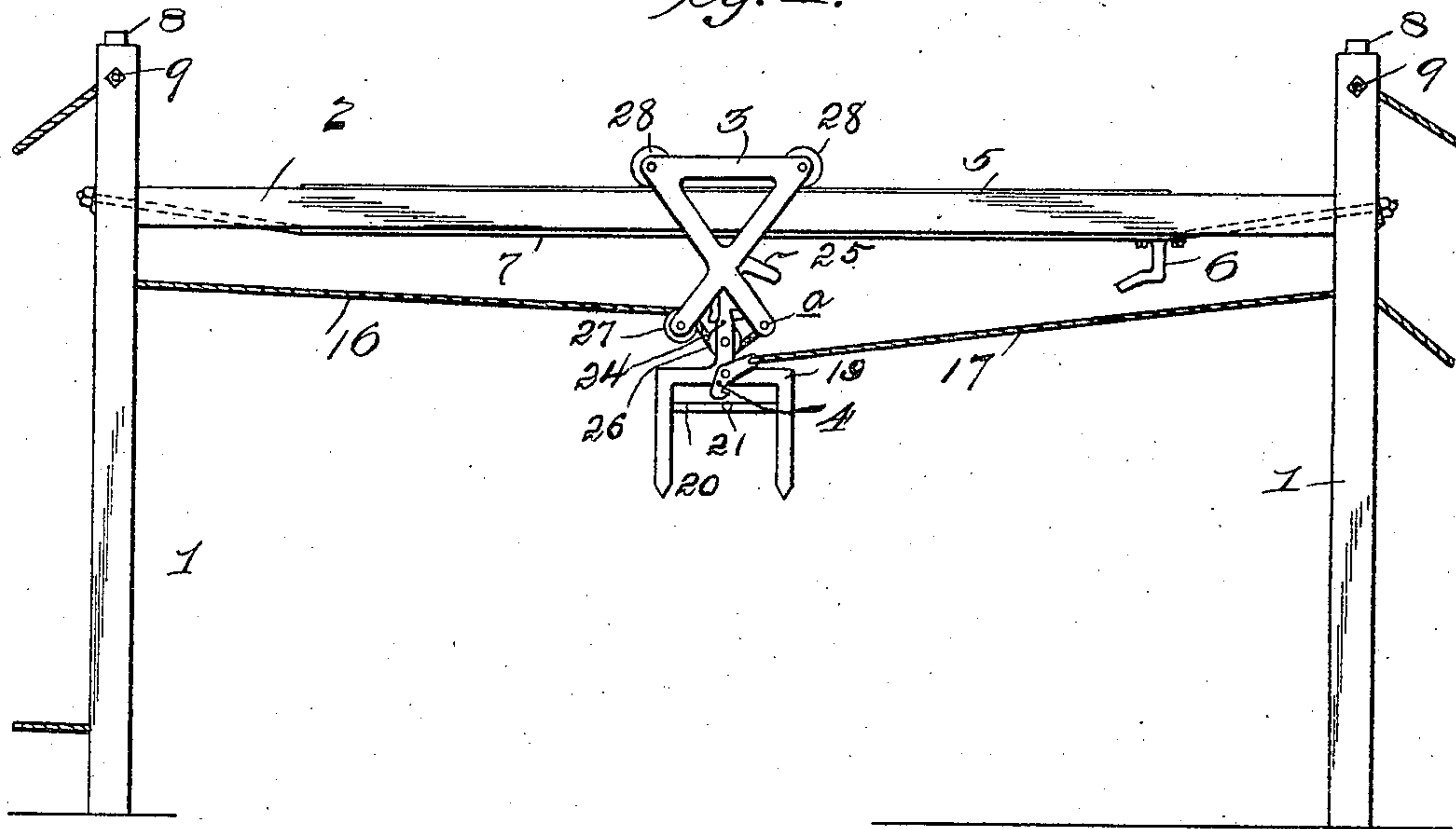


Fig. 2.

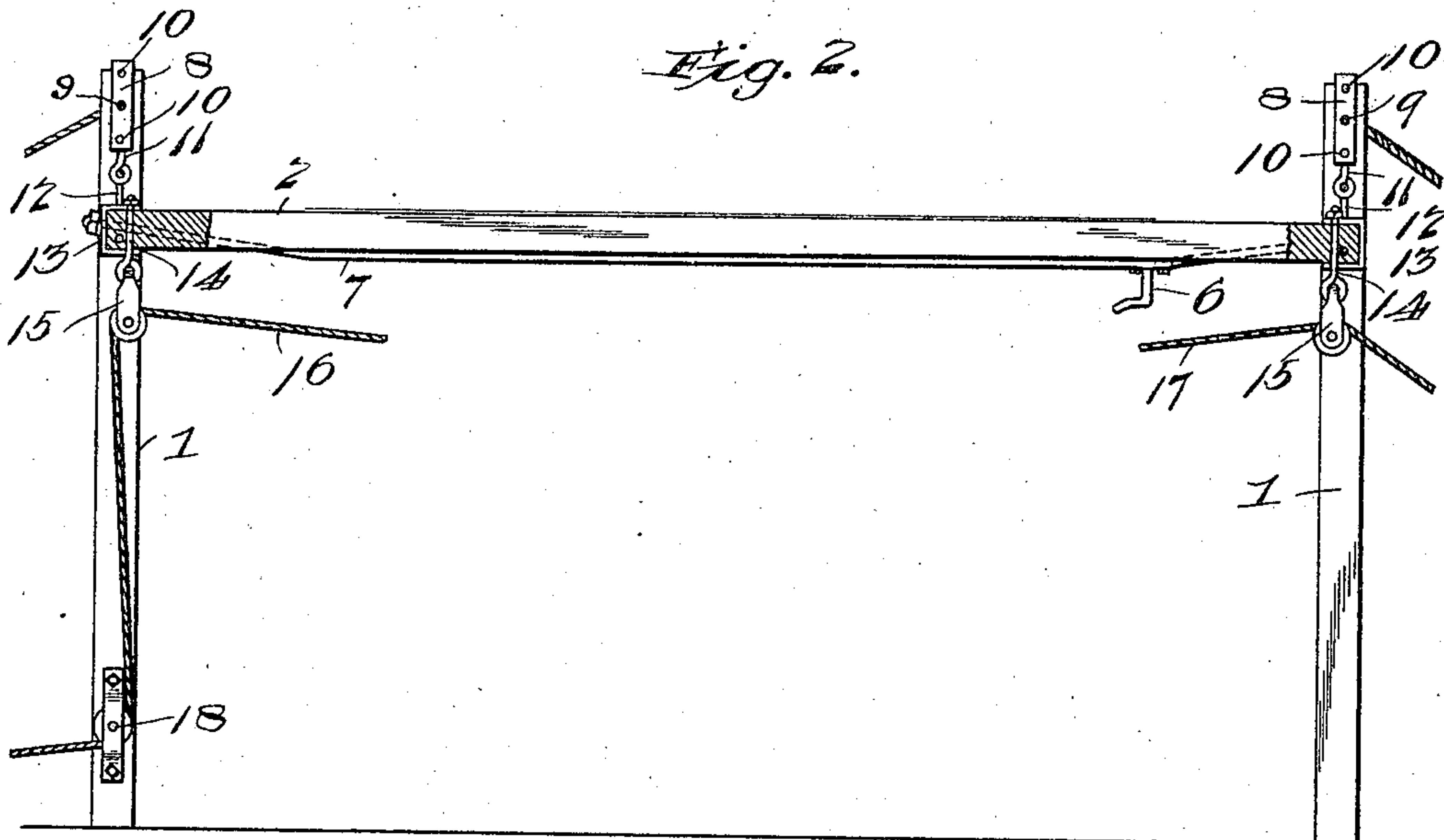
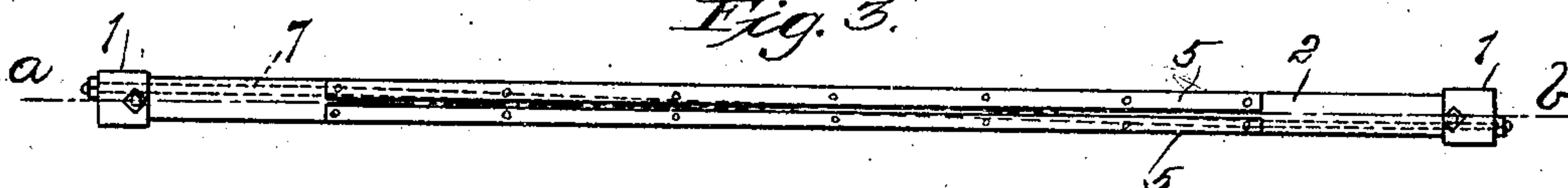


Fig. 3.



Witnesses:
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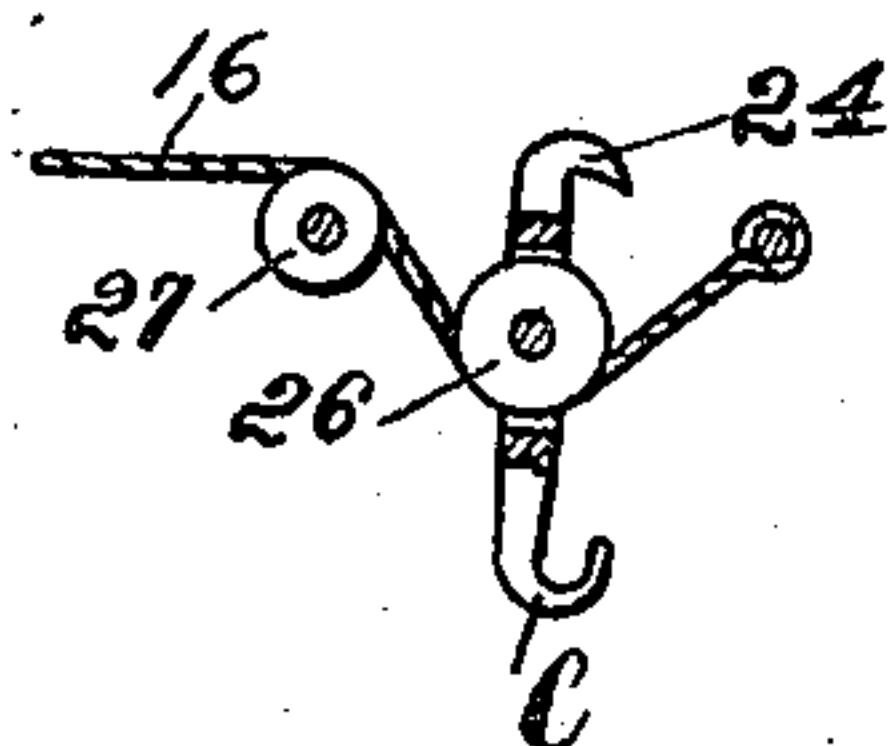
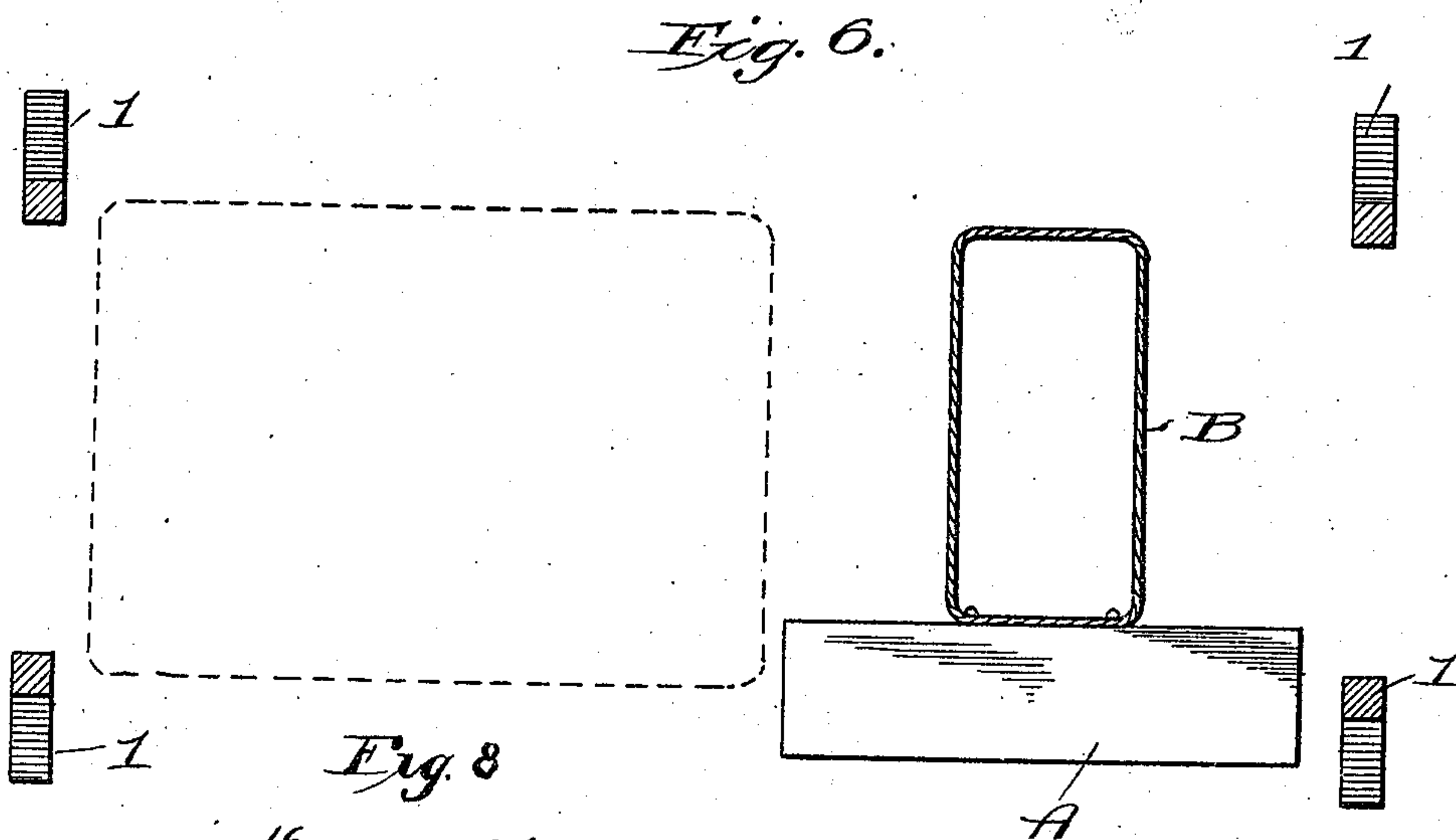
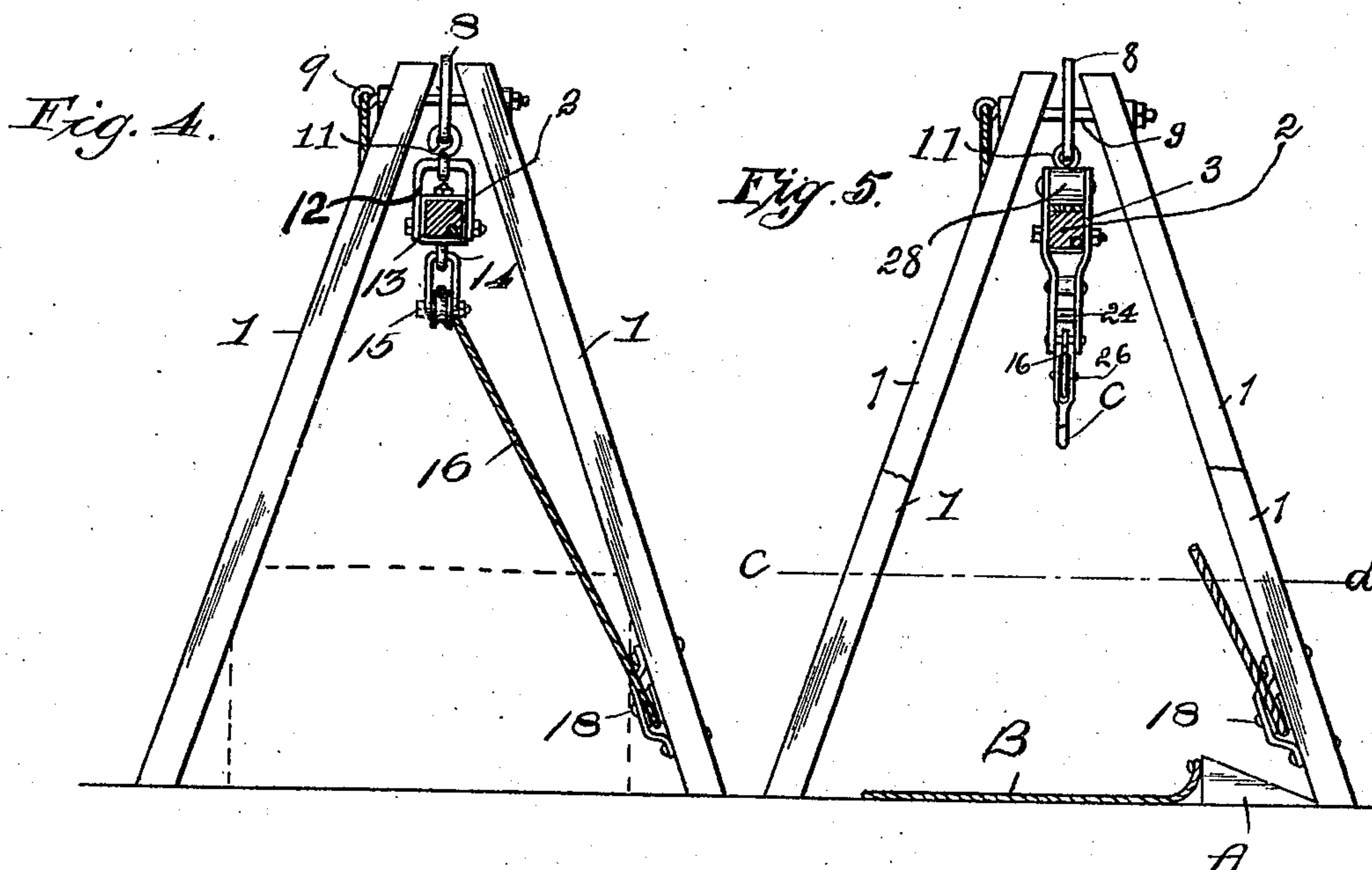
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3 SHEETS—SHEET 2.



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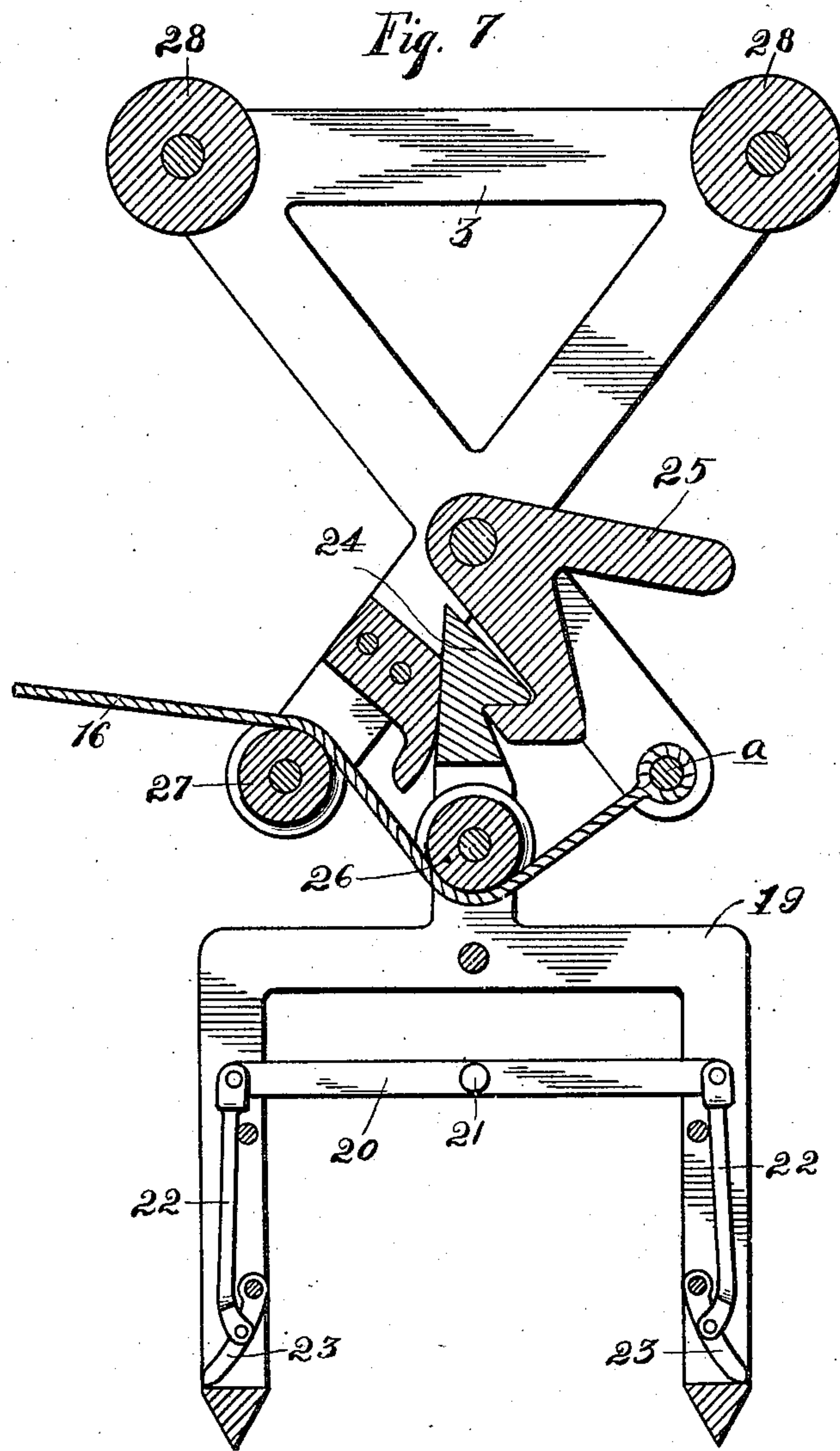
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

GEORGE SCHEIHING, OF RIVERDALE, NEBRASKA.

HAY-STACKER.

No. 847,376.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed June 30, 1906. Serial No. 324,199.

To all whom it may concern:

Be it known that I, GEORGE SCHEIHING, a citizen of the United States, residing at Riverdale, in the county of Buffalo and State of Nebraska, have invented certain new and useful Improvements in Hay-Stackers, of which the following is a specification.

This invention relates to certain new and useful improvements in hay-stackers.

The invention has for its object the production of simple and improved means where by hay, straw, and the like may be readily collected and elevated into a single stack.

A further object is to produce an improved grapple and efficient means for operating the same.

A further object is to provide improved means for supporting the grapple.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawing, Figure 1 is a side elevation illustrating my improved hay-stacker. Fig. 2 is a longitudinal sectional view thereof, taken on the dotted line *a b* of Fig. 3. Fig. 3 is a plan view of the grapple-supporting bar. Fig. 4 is a transverse sectional view. Fig. 5 is a similar view of a slight modification. Fig. 6 is a section on line *c d*, Fig. 5. Fig. 7 is a central vertical sectional view of the grapple and carriage. Fig. 8 is a side elevation view of the hook C, partly broken away.

Similar characters of reference denote similar parts.

Referring to the drawing, 1 1 designate uprights, which are united at their upper ends by bolts 9, said bolts also serving to support brackets 8, interposed between said uprights. The brackets 8 are provided with a plurality of holes 10, whereby they may be adjusted vertically, and from said brackets depend, respectively, eyebolts 11, on which are respectively hung the clevises 12, which embrace and support a traction-bar 2. In order to insure stiffness and rigidity, said bar 2 is provided with a truss-rod 7, the ends of which protrude through angle-plates 13 and are secured in position by suitable nuts. The bar 2 is also preferably provided on its upper side with wear-plates 5.

A carriage 3, provided with suitable wheels or rollers 28, is mounted to run on plates 5, the same serving to convey the grapple from one point to another along said bar 2. The grapple comprises a fork-like frame 19, pro-

vided with a cross-bar 20, having a lug 21, said cross-bar being connected by rods 22 to pivoted dogs 23. The upper end of frame 19 is provided with a hook 24, which is normally engaged by a hook 25, having an overhanging weighted extension. The lug 21 is engaged by a hook 4, pivoted to frame 19 and connected to one end of a rope 17, passing over a pulley 15, suspended from bar 2 by two eyebolts 14. One end of a rope 16 is secured to carriage 3 at *a* and after being passed under a roller 26, carried by frame 19, and over a second roller 27, carried by said truck, is passed over a pulley 15 and thence downward under a pulley 18 in convenient position to be attached to a swingletree. (Not shown.) The hook 6 is for the purpose of tripping hook 25.

In practice the carriage 3 is drawn along by rope 17 until hook 6 engages the overhanging portion of hook 25, which disengages the latter hook from hook 24. The grapple is then free to drop by gravity as soon as the tension on rope 16 is reduced. The grapple is then forced in any preferred manner into the hay, straw, or the like, after which the cross-bar 20 is raised to engage hook 4 with lug 21. In raising said cross-bar the dogs 23 are moved toward a horizontal position, thus tending to keep the hay on the grapple. Power is then applied to rope 16, raising frame 19 through medium of roller 26 until hook 25 engages hook 24, whereupon the carriage 3 will be moved toward the left. When the carriage has reached the desired position, a pull on rope 17 releases bar 20 from hook 4, permitting said bar to drop and release the load. A further pull on rope 17 will then bring carriage 3 back to the first position.

In Figs. 5 and 6 I have illustrated a substitute for the grapple. An inclined platform A is adapted to have releasably secured to it a loop B, preferably of rope. The hay is preferably fastened to hook C, the latter being substituted for the grapple heretofore described. The hook C is provided at its upper end with another hook 24 for engaging the hook 25. A pulley 26 is pivotally mounted on the hook C for engaging the rope 16 in the same manner as described with reference to the form provided with the grapple.

The advantages of my improved hay-stacker are apparent to those skilled in the art to which it appertains.

It will be particularly noted that I have provided simple and efficient means for col-

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lecting hay and similar material and stacking the same. It will also be observed that I have produced an improved grapple and means for supporting the same.

5 I claim as my invention—

1. A hay-stacker comprising uprights, rods uniting said uprights, adjustable brackets supported by said rods, a bar supported by said brackets, a truss-rod therefor, and a car-
10 riage mounted on said bar and provided with means for engaging the material to be stacked.

2. A hay-stacker comprising uprights, rods uniting the upper ends of said uprights, brackets supported by said rods, clevises
15 carried by said brackets, a bar supported by said clevises, a carriage mounted on said bar, and a grapple carried by said carriage.

3. A hay-stacker comprising uprights, rods uniting said uprights, a bar supported by
20 said rods, end caps for said bar, bolts for securing said end caps in position and provided with means for supporting pulleys, a

carriage mounted on said bar and provided with means for supporting material to be stacked, and ropes connected to said car- 25 riage and passed over said pulleys.

4. A hay-stacker comprising uprights, rods uniting said uprights, brackets supported by said rods, a bar supported by said brackets and provided with wear-plates, end caps 30 for said bar, eyebolts for securing said caps in position, pulleys supported by said eyebolts, a carriage mounted on said bar and provided with means for engaging the material to be stacked, and operating-ropes se- 35 cured to said carriage and passed over said pulleys.

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

GEORGE SCHEIHING.

Witnesses:

GRANVILLE STORER,
DANIEL MORRIS.