

No. 665,560.

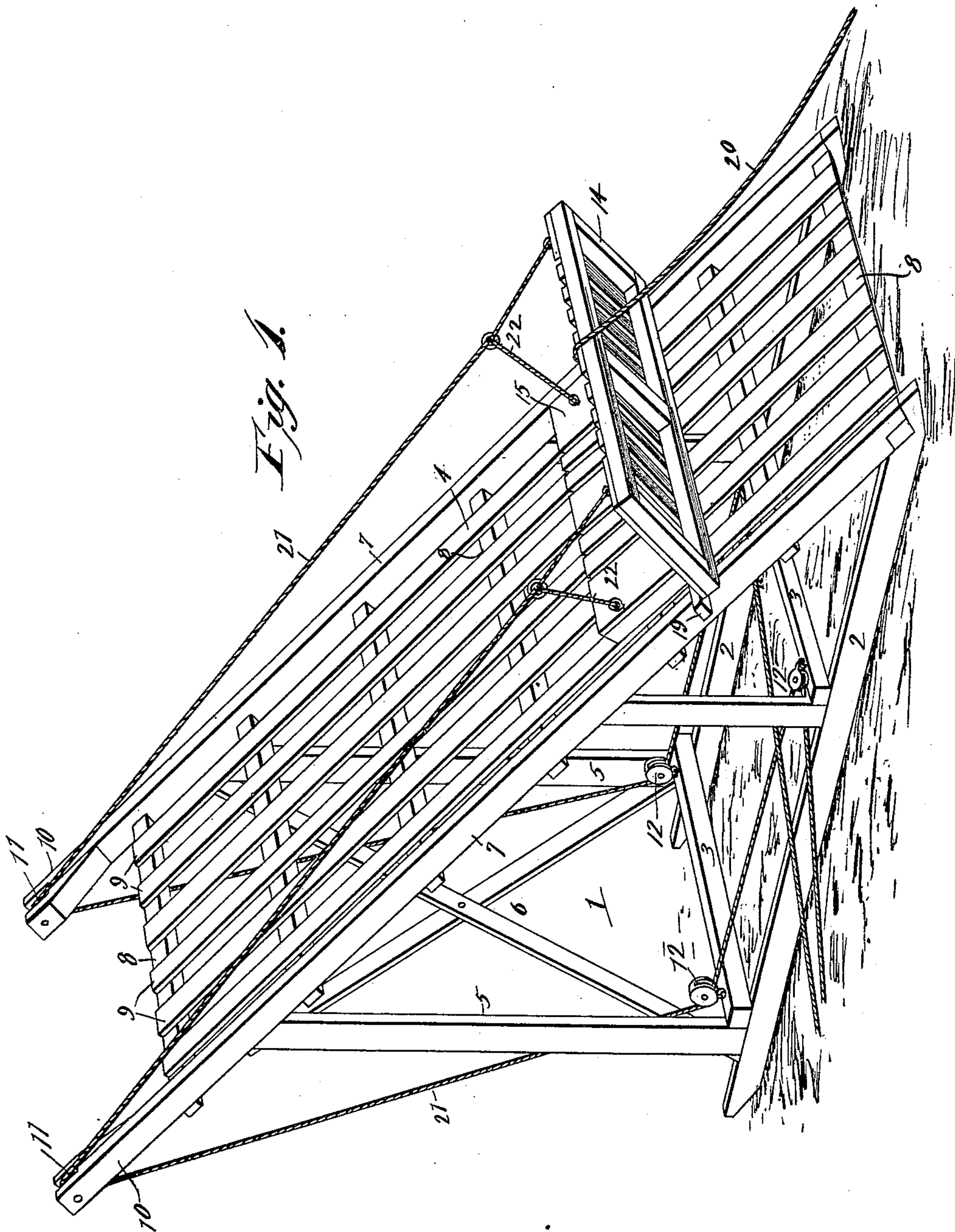
Patented Jan. 8, 1901.

A. I. AKIN.
HAY STACKER.

(Application filed May 12, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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Fig. 3.

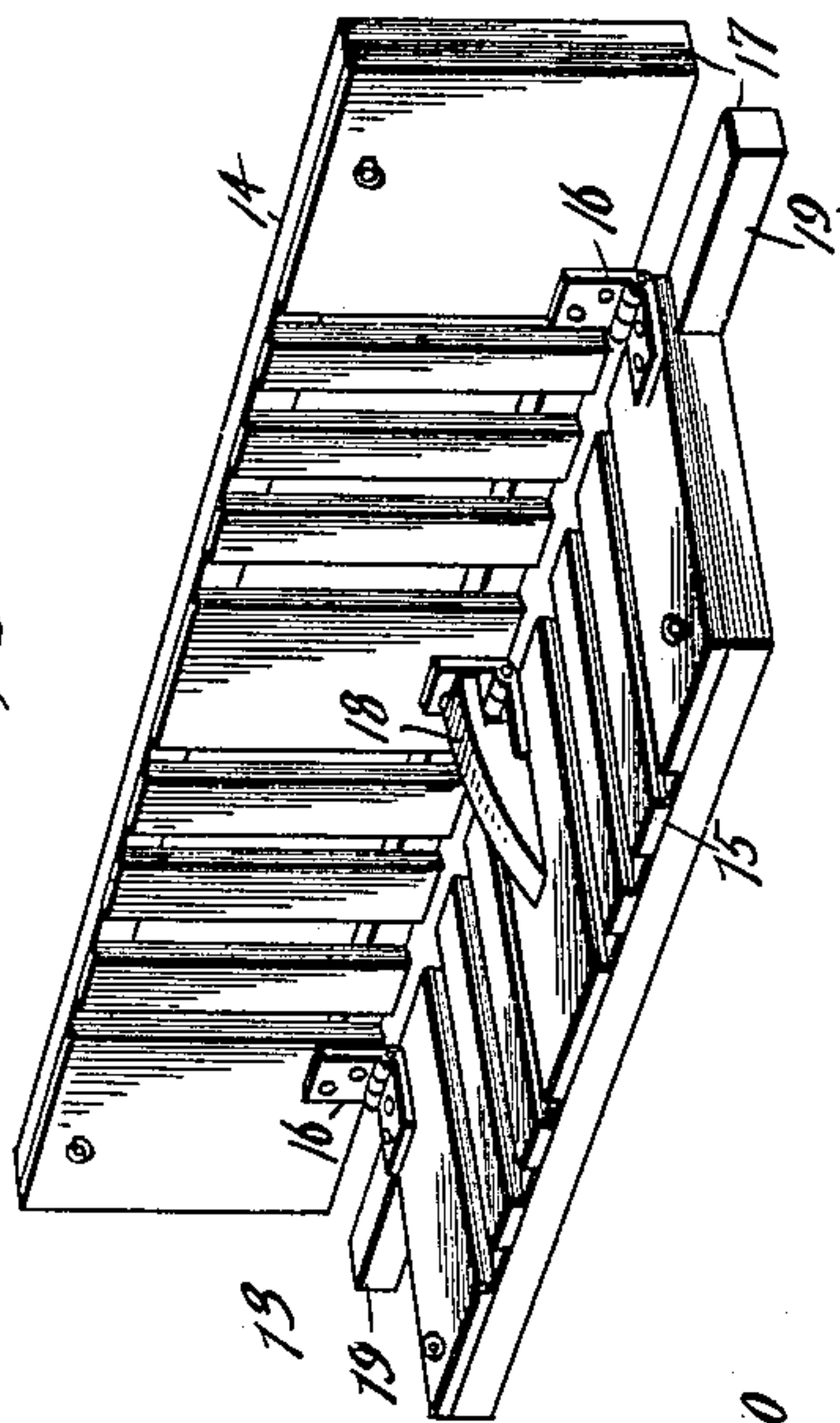
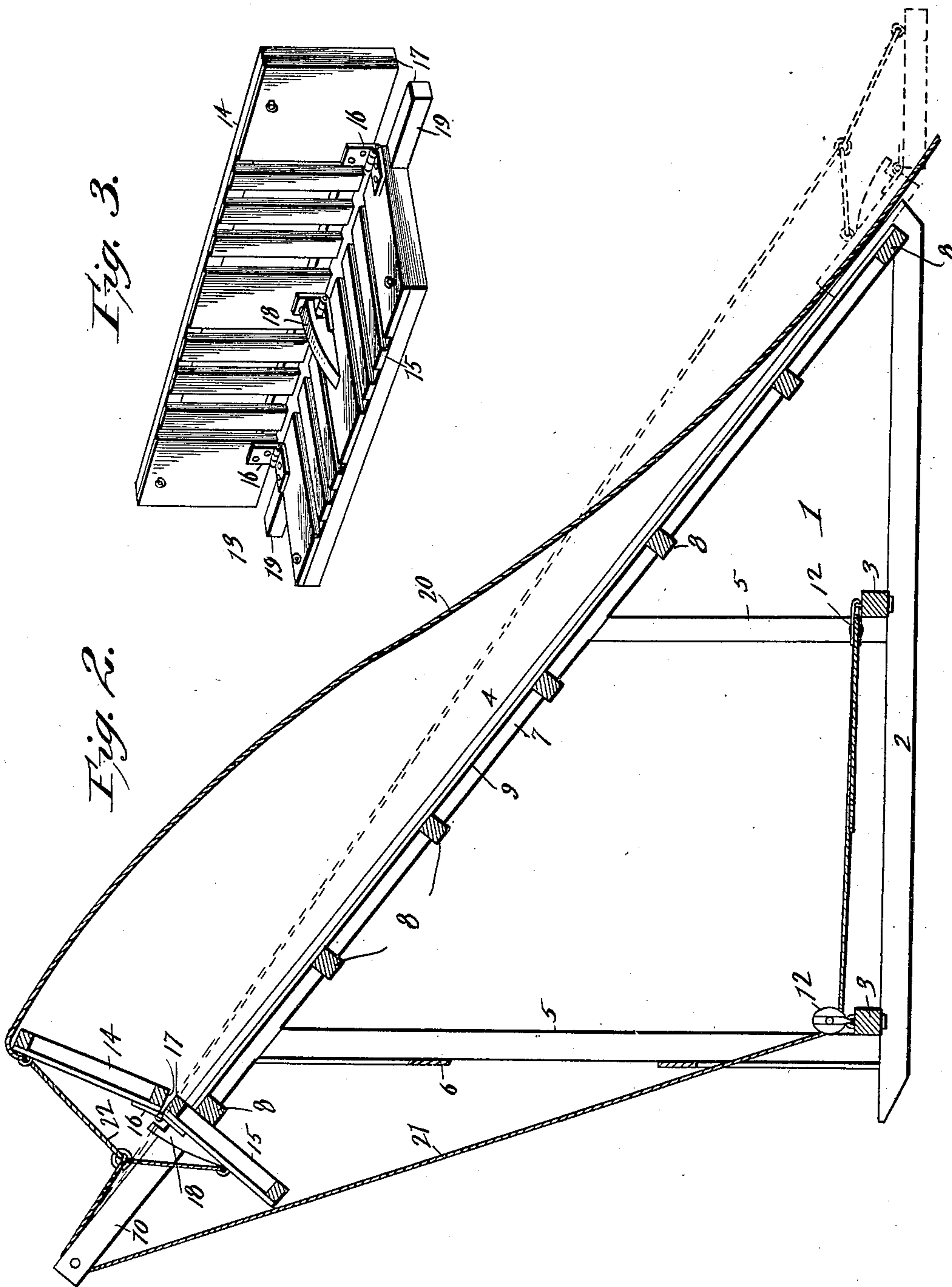


Fig. 2.



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UNITED STATES PATENT OFFICE.

ABRAHAM I. AKIN, OF FORT COLLINS, COLORADO, ASSIGNOR OF ONE-HALF
TO MYRON AKIN, OF SAME PLACE.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 665,560, dated January 8, 1901.

Application filed May 12, 1900. Serial No. 16,478. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM I. AKIN, a citizen of the United States, residing at Fort Collins, in the county of Larimer and State of Colorado, have invented a new and useful Hay-Stacker, of which the following is a specification.

My invention is an improved hay-stacker, one object of my invention being to provide a simple, cheap, and efficient apparatus which is adapted to elevate hay from the ground and deposit the same upon a stack or rick.

A further object of my invention is to provide a novel form of carrier which is adapted to automatically discharge its load onto the stack or rick when it reaches the upper side of the skid-frame.

My invention consists in the peculiar construction and combination of devices herein-after fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a hay-stacker constructed in accordance with my invention, the carrier being shown in position when loaded and ascending the skid-frame. Fig. 2 is a vertical sectional view of the same, showing the carrier at the upper end of the skid-frame in the position assumed when it automatically discharges its load onto the stack or rick. Fig. 3 is a perspective view of the carrier with the members thereof in position at right angles to each other.

In the embodiment of my invention I provide the ground-frame 1, which comprises a pair of sills or runners 2, connected together by cross-bars 3, the ground-frame being adapted to be readily drawn by a team from one point to another. An inclined skid-frame 4 is supported on the ground-frame by vertical posts or studs 5, which may be suitably braced at the rear end of the frame, as at 6, or in any other suitable manner. The skid-frame comprises the side bars 7, the cross or tie bars 8, which connect them together and of which a suitable number are employed, and slats or bottom boards 9, which are disposed parallel with the side bars 7. The latter at their upper ends project beyond the upper side of the skid-frame to form the extensions 10, in which are mounted suitable

sheaves 11. Suitable sheaves or blocks 12 are also provided, which are secured on the cross-bars 3 of the ground-frame.

The carrier 13 comprises the members 14 55 15, which are hinged together, as at 16, and are adapted to be turned at right angles to each other and to be extended in line with each other. The said hinges 16 being on the upper sides of the members 14 or 15, the contiguous sides of the said members form co-acting stops or shoulders 17, which contact with each other when the members 14 15 are extended in a right line. One of the members is provided on its upper side with a stop 65 or cleat 18, which is adapted to contact with the other member when the members are turned to a position at right angles to each other, as shown in Fig. 3. The member 15 is in advance of the member 14 and is somewhat narrower than the latter and is provided at its rear side with laterally-extending arms 19, which widen the said member at its rear side, and the said arms 19 travel on the side bars 7 of the skid-frame. The member 75 15 is of less width than the space between the said side bars 7 of the skid-frame, so that when the carrier reaches the upper side of the skid-frame, as presently described, the said member 15 is adapted to drop by turning axi- 80 ally with reference to its projecting arms 19 between the projections 10 of the skid-frame, so as to discharge its load from the upper side of the skid-frame. A guy-rope 20 is attached to the member 14 of the carrier and trails 85 therefrom, and elevating-ropes 21 are passed around the sheaves 12 and 11 and are connected independently to the members 14 and 15 of the carrier either as here shown at 22 or in any other suitable manner. 90

The operation of my invention is as follows: When the carrier is at the lower side of the skid-frame, the member 14 is disposed upon the ground and the member 15 is disposed upon the skid-frame, the carrier being thus 95 in position to be loaded. Draft being applied to the elevating-ropes 21, the member 14 is first pulled by the elevating-ropes to a position at right angles to the member 15, thereby securing the load upon the carrier, and the 100 latter is drawn upward on the skid-frame until it reaches the upper side thereof, when the

member 15 in clearing the upper side of the skid-frame drops to a position substantially in line with the member 14, being sustained by its arms or projections 19, which bear upon
5 the extensions at the upper side of the skid-frame, and the load drops by gravity from the carrier onto the stack or rick, as will be readily understood. By slackening the hoisting-ropes the carrier is caused by gravity to
10 descend the skid-frame to its initial position, (indicated in dotted lines in Fig. 2,) the guy-rope 20 being employed when necessary to facilitate the descent thereof.

What is claimed is—

15 1. In a hay-stacker, the combination with an inclined skid having side bars projecting beyond the upper end thereof, of a carrier comprising two members hinged together, adapted to be extended in a right line, and
20 having coacting stops to secure said members when turned at an angle to each other, the width of one of said members being less than the space between the projecting side bars of the skid and the width of the other member
25 being greater than the said space, and hoist-

ing-ropes guided on said projecting side bars and connected to said carrier, substantially as described.

2. In a hay-stacker, the combination with an inclined skid having side bars projecting
30 beyond the upper end thereof, of a carrier comprising two members, hinged together, adapted to be extended in a right line and having coacting stops to secure said members when turned at an angle to each other, one of
35 said members having laterally-extended arms at its rear side to widen the same, and the width of the other member being less than the space between the projecting bars of the skid, and hoisting-ropes guided on the said
40 projecting bars of the skid-frame and connected to the said members of the carrier, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in
45 the presence of two witnesses.

ABRAHAM I. AKIN.

Witnesses:

MYRON H. AKIN,
E. J. GREGORY.