

No. 821,243.

PATENTED MAY 22, 1906.

M. HUDGENS.  
LOADER AND UNLOADER.  
APPLICATION FILED DEC. 28, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

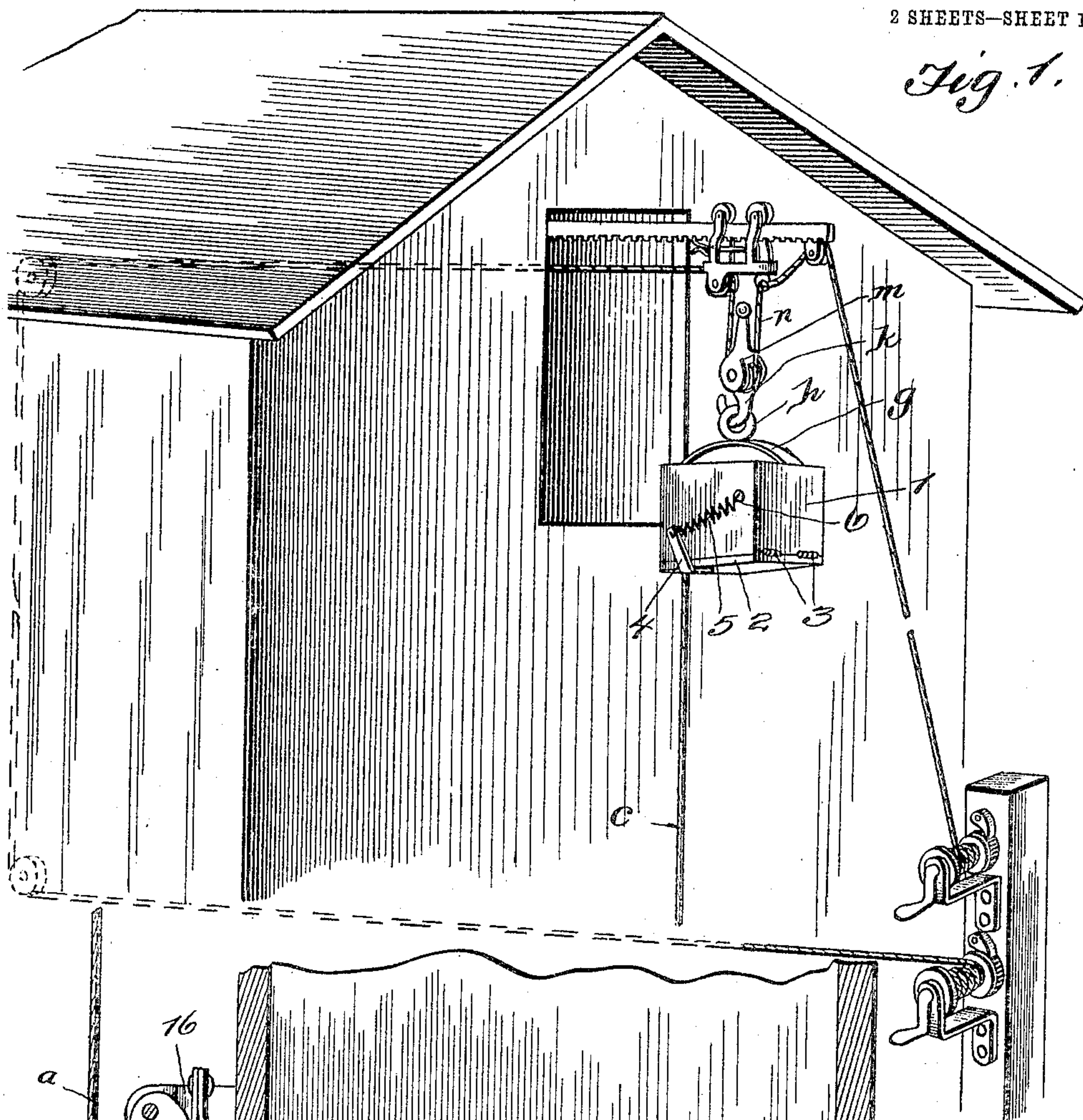
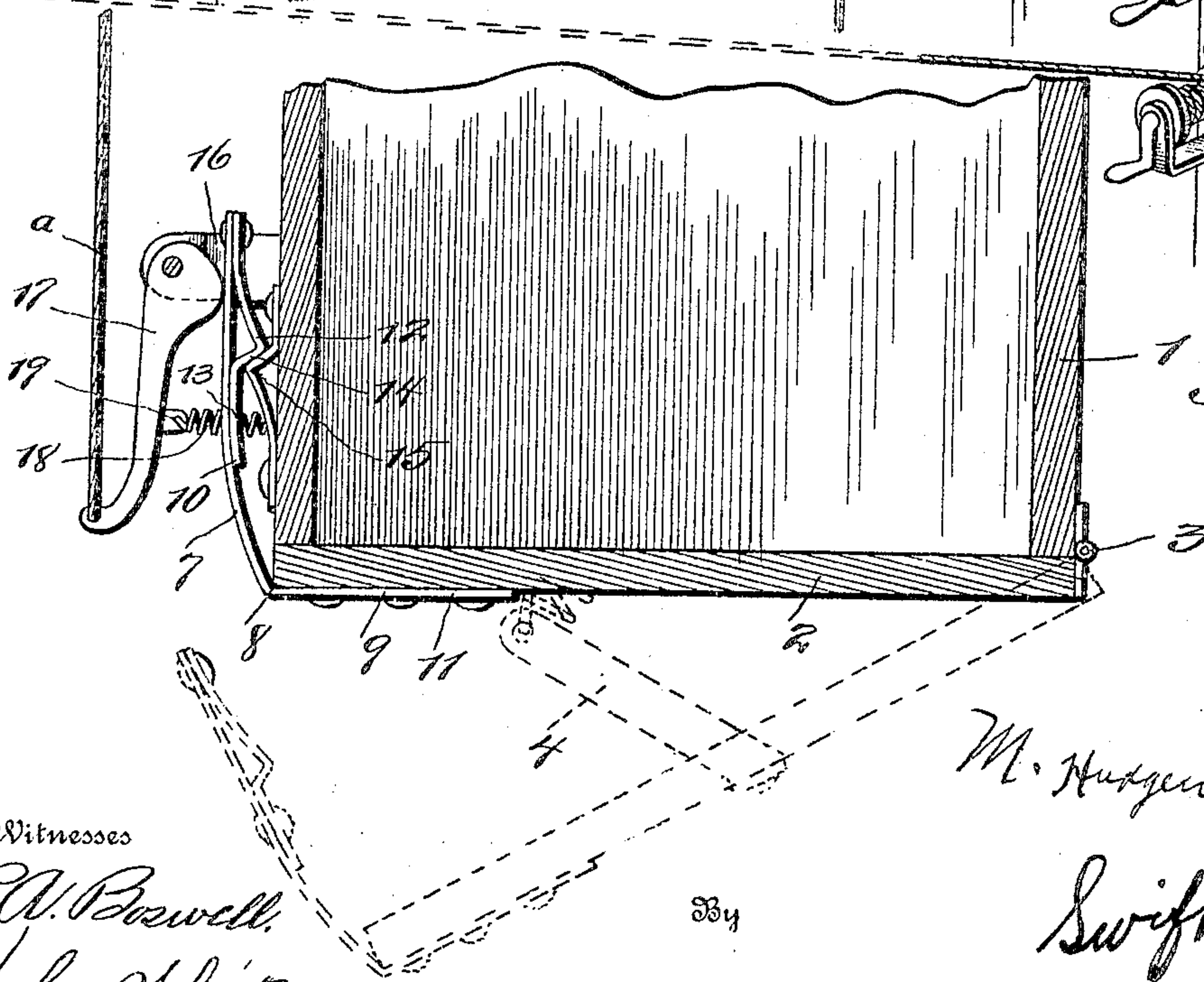


Fig. 3.



Witnesses

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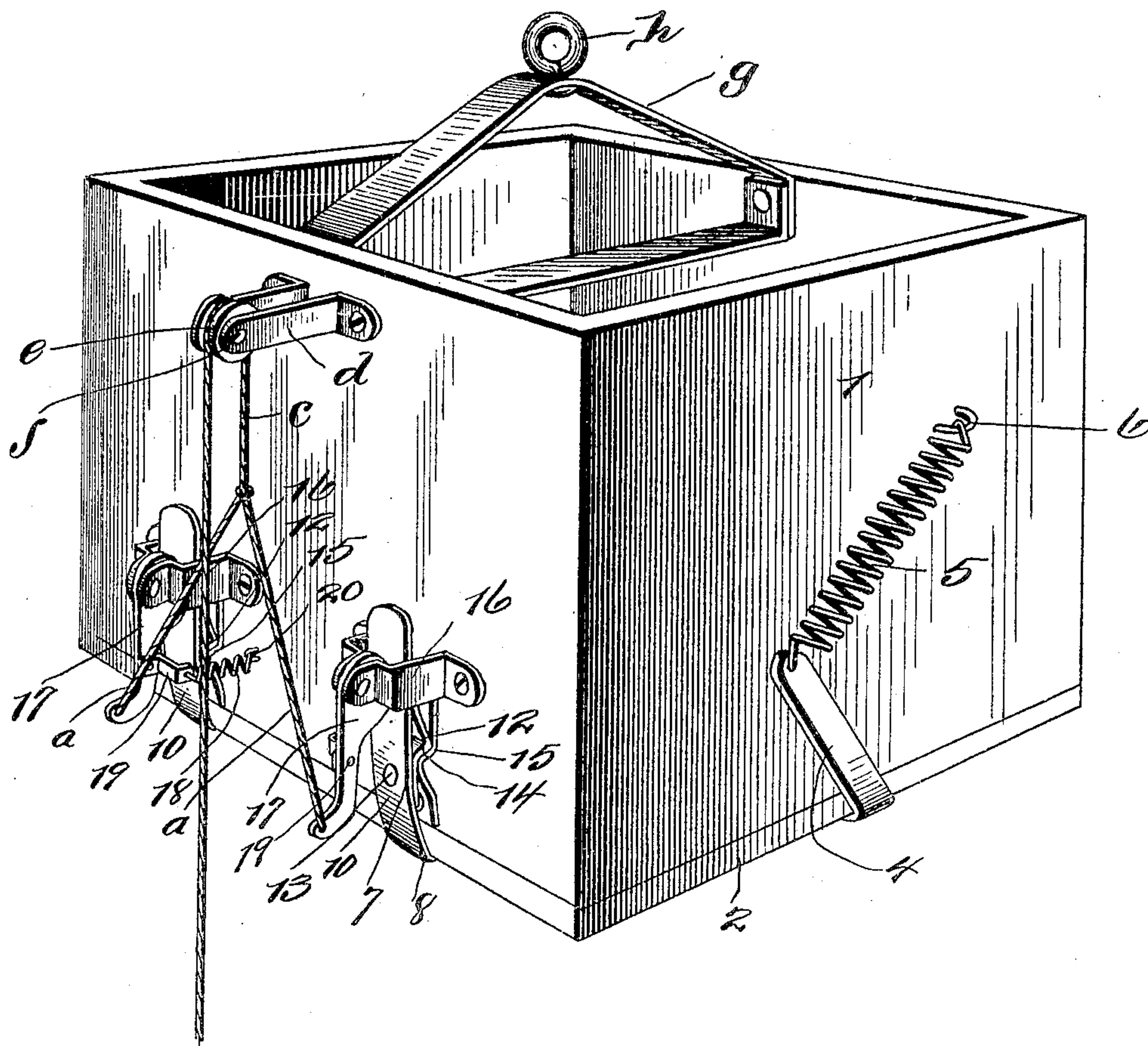
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2 SHEETS—SHEET 2.

Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

MONROE HUDGENS, OF O'CONNERS, TENNESSEE.

## LOADER AND UNLOADER.

No. 821,243.

Specification of Letters Patent.

Patented May 22, 1906.

Application filed December 28, 1905. Serial No. 293,588.

*To all whom it may concern:*

Be it known that I, MONROE HUDGENS, a citizen of the United States, residing at O'Connors, in the county of White and State of Tennessee, have invented a new and useful Loader and Unloader; 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 ap-  
10 pertains to make and use the same.

This invention relates to grain-carrier boxes adapted to unload and load wagons—that is to say, after the wagon has been backed up in proper position adjacent to the  
15 granary the carrier-box may be lowered over the wagon and after the carrier-box is filled then hoisted to the proper height to allow the same to be swung into the granary.

This invention may be used for loading and  
20 unloading straw or any other light commodity, and more particularly the invention comprises a device having a hinged bottom which is provided with an automatic locking and catch device, which will be hereinafter more  
25 particularly set forth.

This invention comprises further objects and combinations of elements, which will be hereinafter more fully described and shown in the accompanying drawings, and the novel  
30 features thereof will be particularly pointed out by the appended claims.

To obtain a full and correct understanding of the details of construction and combination of features, elements, and advantages,  
35 reference is to be had to the hereinafter set forth description in connection with the accompanying drawings, wherein—

Figure 1 is a perspective view of the carrier-box, being attached to a suitable carrier,  
40 which hangs from the upper part of the granary; Fig. 2, an enlarged perspective view of the carrier-box, and Fig. 3 a longitudinal section through the automatic locking and catch device.

45 Making renewed reference to the accompanying drawings, wherein similar reference characters indicate the corresponding parts in the several illustrations by figures, 1 designates a rectangular-shaped carrier-box, having a suitable bottom 2, which is suitably  
50 hinged, as at 3, which will allow the same to swing downward when the automatic locking and catch device is operated. Upon each side of the bottom 2 are a pair of projecting  
55 arms 4, which extend adjacent to the side of carrier-box, the ends of the arms being suit-

ably connected to the ends of springs 5, the other ends of which are secured, as at 6, to the side of the carrier-box. These springs are for the purpose of restoring the bottom to  
60 its normal position after the commodity has been dumped.

7 designates spring-catches, comprising strips of metal bent upon themselves, as at 8, forming arms 9 and 10 at right angles to each  
65 other, the arms 9 being secured to the under face of the bottom, as at 11, and the arms 10 being provided with catches 12, which are riveted, as shown at 13, forming shoulders  
14, which shoulders are adapted to engage  
70 shouldered strips 15, which are bolted or otherwise secured to the face of the carrier-box, as shown clearly in Fig. 2 of the accompanying drawings.

Projecting from the face of the carrier-box  
75 are arches 16, which bridge the arms 10 when the catches are closed. Mounted between arms of said arches are cammed levers 17, which are eccentrically mounted therein. These levers are adapted to act upon the face  
80 of the arms 10 to securely hold the shoulders 14 upon the arms 10 in engagement with the shouldered strips 15, as shown clearly in the drawings. To provide further means for  
85 holding the cammed levers in engagement with the faces of the arms 10, suitable springs 18 are provided, the ends of which are secured, as at 19, to the arms of the cammed  
90 levers and the other ends being securely attached, as at 20, to the face of the carrier-box, as clearly shown in the drawings.

Attached to each arm of the cammed levers 17 is a suitable rope or cable *a*, said rope or cable having its middle portion thereof  
95 attached to another rope or cable, which is designated in the drawings by the letter *c*, said rope or cable being adapted to pass between arms *d*, projecting from the face of the carrier-box, and to also engage with an anti-frictional roller *e*, which is mounted upon a  
100 suitable pin *f*, which is carried by said projecting arms. Said rope or cable *c* is adapted to pass down to a suitable location to allow the pressure to be applied thereto.

Projecting across the upper part of the  
105 carrier-box is an arch *g*, having a suitable swiveled loop *h*, which is adapted to have connected thereto a hook *k*, which is integral with a pulley *m*, which is carried by a rope or  
110 cable *n* of the usual carrier mounted to travel upon a suitable track-beam, as shown; but in the present invention the said carrier and



track-beam forms no part of the invention only in combination with the carrier-box.

From the foregoing it will be plainly observed that a very efficient device for unloading and loading grain or other like commodities from wagons to a barn or granary is provided which may be manufactured comparatively cheap and sold to the trade at a very slight cost.

10 Having thus fully described the invention, what is claimed as new, and desired to secure by Letters Patent, is—

1. A device of the character described, comprising a rectangular boxing, a hinged 15 bottom therefor, lock and catch devices for said bottom, comprising metallic strips, a shoulder carried by each strip, adapted to engage a similar shoulder secured to the face of the boxing, cammed levers to securely 20 hold the shoulders in locked relation to one another, and means for holding the cammed levers in engagement with said strips, and means for raising and lowering the boxing.

2. A device of the character described, 25 comprising a rectangular boxing, a hinged bottom therefor, means for restoring the bottom to its normal position, catch and lock devices for said bottom comprising metallic strips, a shoulder carried by each strip adapted 30 ed to engage a similar shoulder secured to the

face of the boxing, cammed levers to cooperate with said strips, springs to restore the cammed levers to their normal positions, a cable connected to the arms of said levers, pulleys for said cable, and means for raising 35 and lowering the boxing.

3. A device of the character described, comprising a rectangular boxing, a hinged bottom therefor, means for restoring said 40 bottom to its normal position, lock and catch devices comprising metallic strips, a shoulder carried by each of said strips to engage a shouldered strip secured to the face of the boxing, means for holding the shoulders in 45 locked relation with one another, and means for raising and lowering the rectangular boxing.

4. A device of the class described, comprising a bottom, hinged to a boxing, a shoulder secured to said bottom, and engaging a 50 similar shoulder on said boxing, and a cammed lever holding said shoulders in engagement.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

MONROE HUDGENS.

Witnesses:

R. D. EANES,  
WADE GOOCH.