

L. D. WOODMANSEE.
Unloading Grain, &c.

No. 151,262.

Fig. 1

Patented May 26, 1874.

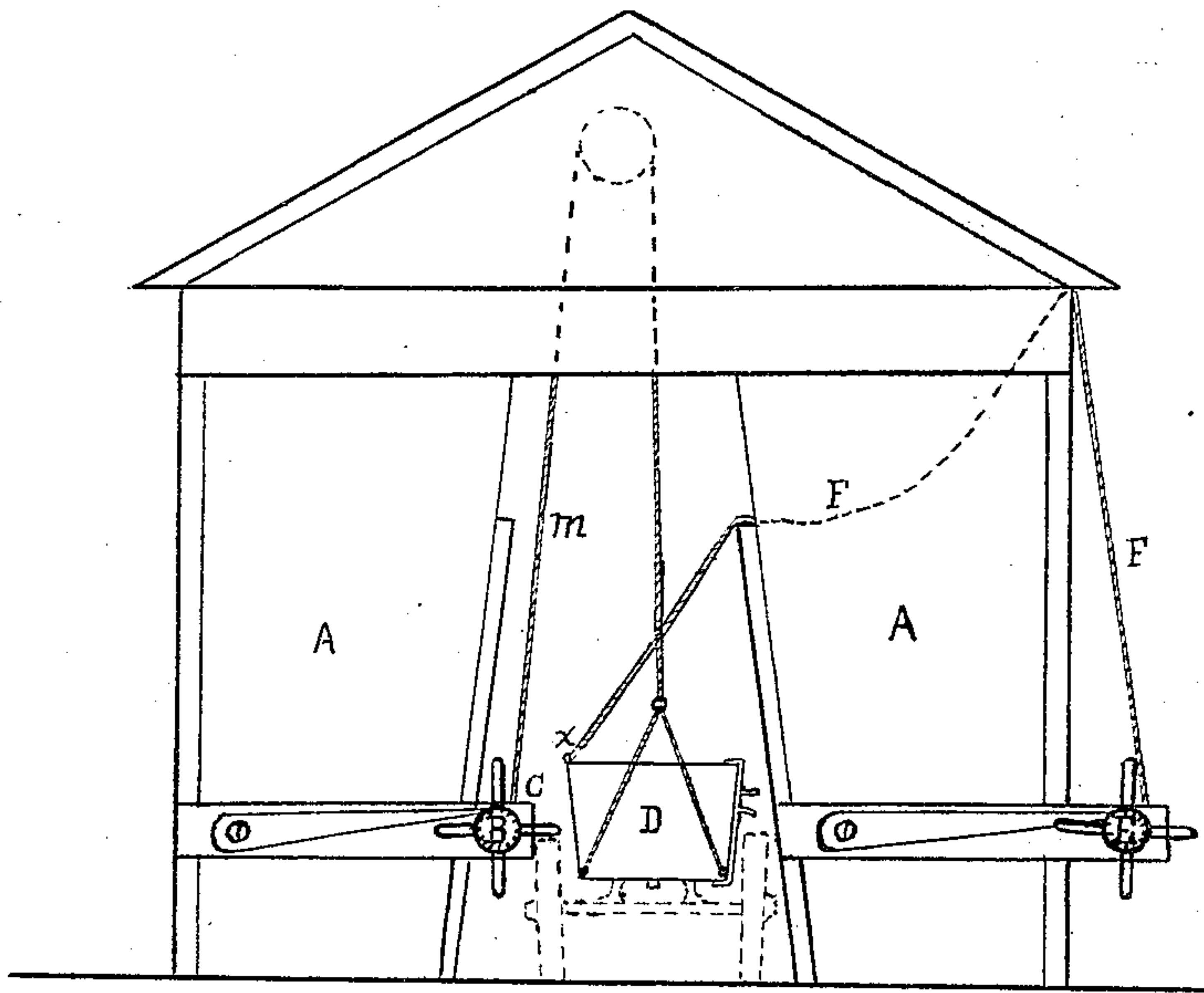
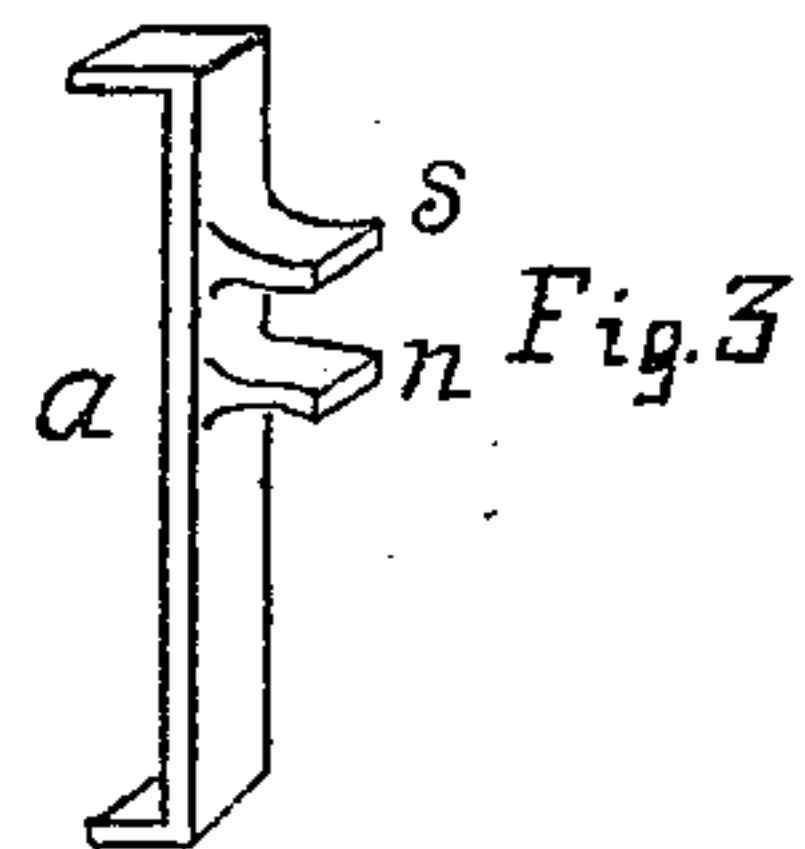
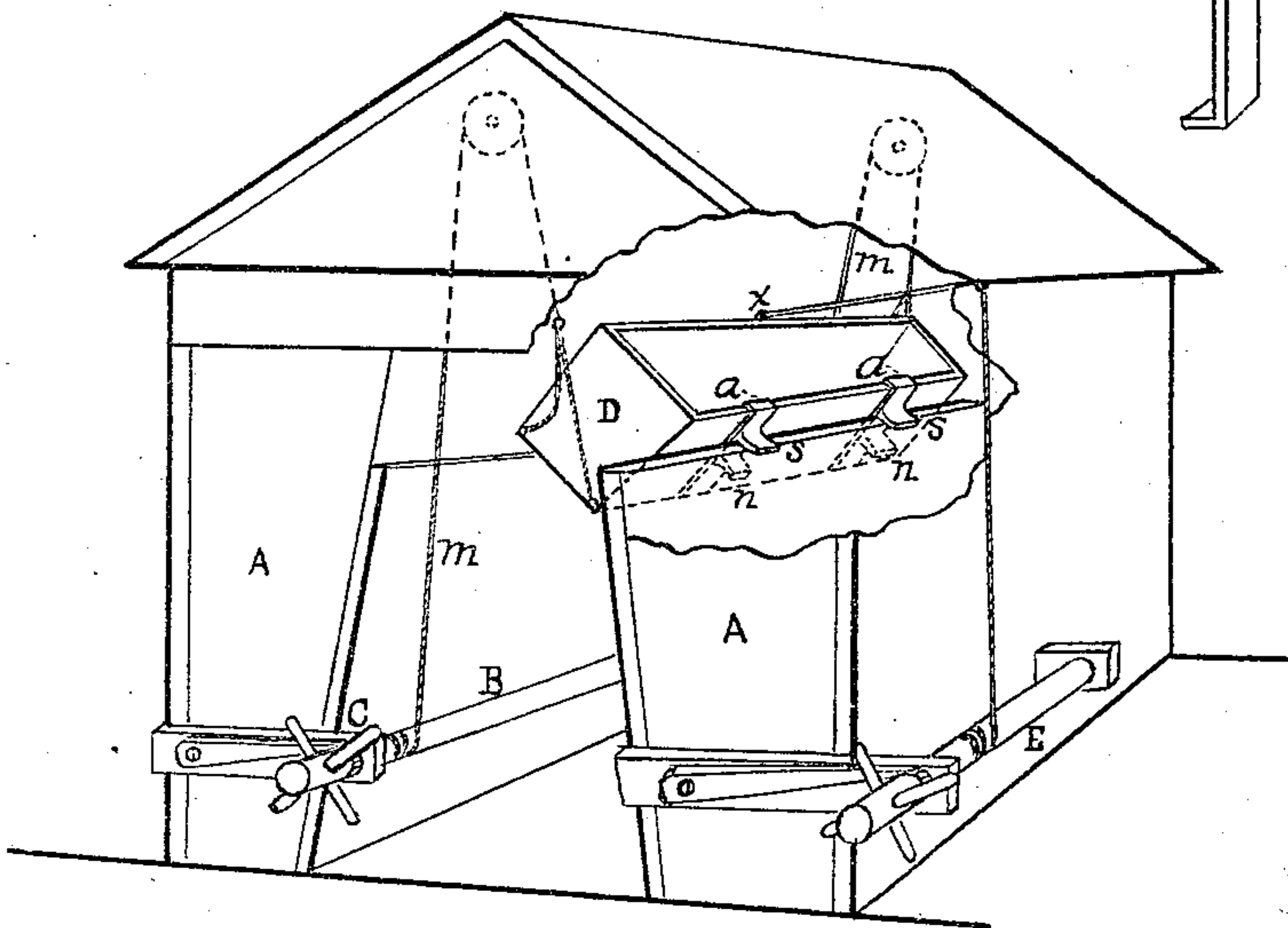


Fig. 2



Witnesses.
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UNITED STATES PATENT OFFICE.

LORENZO D. WOODMANSEE, OF HAMILTON, OHIO.

IMPROVEMENT IN UNLOADING GRAIN, &c.

Specification forming part of Letters Patent No. **151,262**, dated May 26, 1874; application filed April 23, 1874.

To all whom it may concern:

Be it known that I, L. D. WOODMANSEE, of Hamilton, in the county of Butler and State of Ohio, have invented a new and useful Improvement in Machinery for Unloading Grain; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1 represents a front elevation of a double corn-crib with my improved mechanism for elevating and discharging loads of corn. Fig. 2 represents a perspective view of the same with a portion broken away to exhibit the operating devices. Fig. 3 represents a perspective view of one of the hooked side stay plates or braces.

The object of my invention is to provide means for expeditiously discharging entire loads of grain, as hereinafter fully set forth.

In the accompanying drawings, A denotes the double corn-crib, in the center of which there is a wagon-way. A windlass, B, is properly journaled at one side of the wagon-way, adjoining one of the cribs, and it is provided with ratchet and pawl, as seen at C. To the same windlass two ropes or chains are connected, which extend over pulleys near the center of the building, as denoted by the dotted lines in the drawing, Fig. 2, and then down to where they connect with the ropes or chains, which are fastened to the lower corners of the wagon-body D. Another windlass, E, is located outside of the building, and the rope F, which connects with it, extends over the outside of the crib, and connects with the wagon-body, as shown at *x* in Figs. 1 and 2. The ropes or chains extending from the two windlasses may be provided with hooks, so that they can be readily attached to and detached from the wagon-body. The windlass E may be detached and suitable bearings be provided for its use on either side of the building. There are two attachable or removable hooked stay-plates, *a a*, one of which is clearly shown in Fig. 3, provided with strong arms or projections *n s n s*, which are employed upon the side of the wagon-body when the load is to

be discharged. These stays *a a* are to be constructed of heavy bar-iron, and they will be hooked upon the upper edge of the wagon-body in such positions as will support the weight of the load and prevent injury to the body while being discharged of its contents; and as these stays are removable they may be used upon either side of the wagon-body, as occasion may require.

The manner of using my improvement may be briefly described, as follows: The wagon is driven into the crib, and the ropes or chains *m m* are made fast to its four lower corners, and the rope or chain F is made fast to the opposite side of the wagon-body at *x*. The windlass B is then employed to raise the wagon-body till the two upper arms *s s* of the stays *a a* are just above the level of the edge of the side of the crib. When thus elevated, the pawl is dropped into the ratchet of the windlass B, and the wagon-body is held suspended. The windlass E is then used to draw the body of the wagon to the edge of the opening, so that the two upper arms *s s* of the stays pass over its edge, while the two lower arms *n n* remain against the side of the crib, as shown in Fig. 2; and when the rope F is taken up by its windlass the wagon-body is caused to turn upon the edge of the crib, being held by the arms of the stay-plates, and discharges its load into the crib. Upon freeing the windlass E the wagon-body resumes its upright position, and is lowered upon the carriage, the whole operation requiring a very short time and but little labor.

I claim and desire to secure by Letters Patent—

The adjustable stay-plate *a*, having a hooked end, and provided with arms *n s* for engaging the sides of the crib, in combination with the windlass, rope, and pulley, substantially as described.

Witness my hand this 30th day of March, 1874.

LORENZO D. WOODMANSEE.

Witnesses:

H. P. K. PECK,
JOHN M. DAVIDSON.