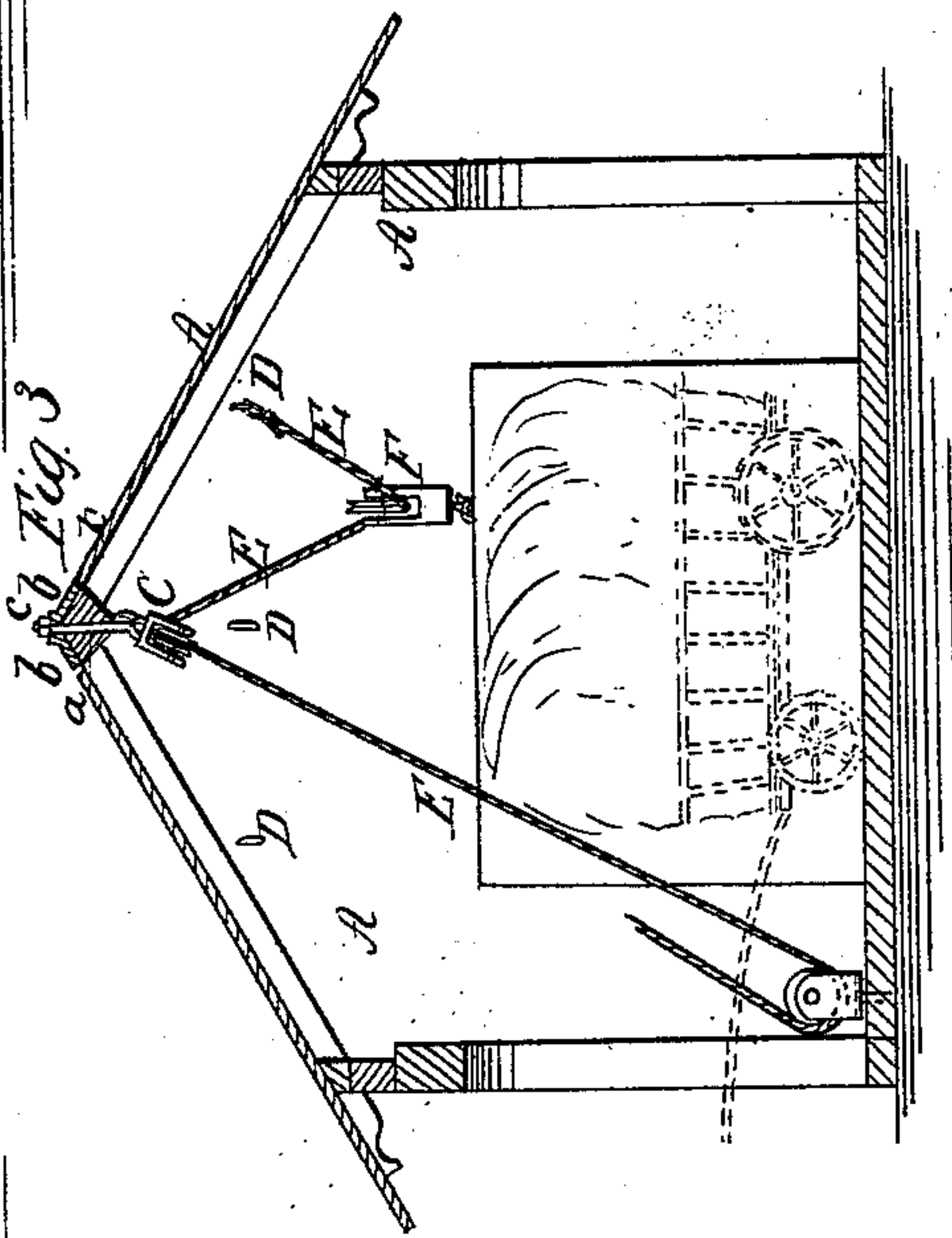
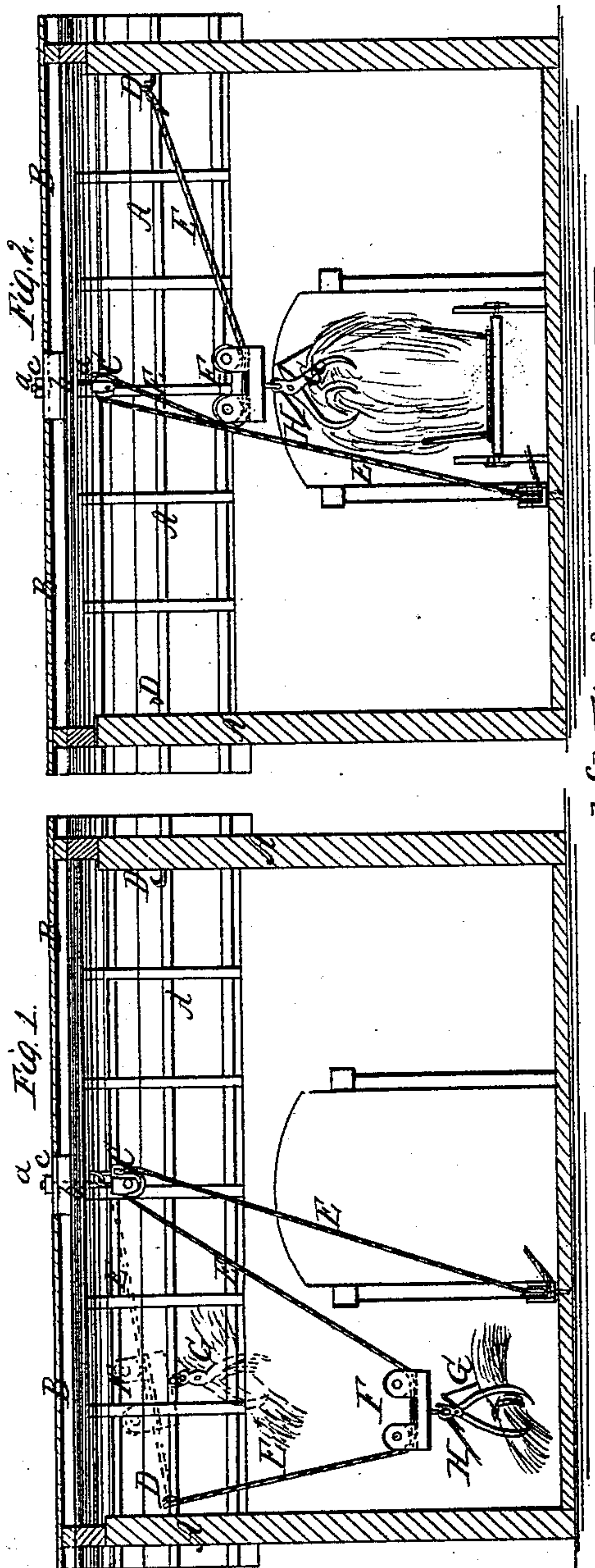


*W. D. Brooks,
Hay Elevator.*

N^o 84,794.

Patented Dec. 8, 1868.



*Witnesses,
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United States Patent Office.

WILLIAM D. BROOKS, OF BETHANY, PENNSYLVANIA.

Letters Patent No. 84,794, dated December 8, 1868.

IMPROVED ELEVATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, WILLIAM D. BROOKS, of Bethany, in the county of Wayne, and State of Pennsylvania, have invented a new and improved Apparatus for Unloading and Stacking Hay; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 represent side elevations, partly in section, of my improved unloading-apparatus, showing it in different positions.

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for mowing or stacking hay and straw, or for conveying loads of various kinds from one place to another, and is intended as an improvement on the adjustable track for conveying loads by gravity, for which Letters Patent, No. 68,959, were granted to A. W. Cramer and myself on the 17th day of September, 1867.

The invention consists chiefly in a novel manner of operating the truck from which the fork or load is suspended, said truck running on a flexible track, which is fastened at one end, and which works around a swivelled pulley that is higher than the fastened end of the track, so that the latter is thereby lower at the fastened end, and causes the truck to move automatically towards the same. But when it is desired to make the truck move towards the pulley, the flexible track is slackened; and the cord fastened to the truck is pulled, so as to cause the track to be higher at the fastened end.

The invention also consists in the arrangement of a series of fastening-hooks at opposite ends of a barn, which, in conjunction with the swivelled pulley-block, allow the transfer of a load from the middle to any desired portion of the barn, or *vice versa*.

The invention finally consists in the manner of fastening the hook from which the aforesaid pulley-block is suspended to a rafter of the barn, with a view to prevent the said hook from working loose in and dropping out of the rafter. This object is obtained by putting a metal cap over the rafter, and by putting the hook through the rafter and cap, and securing it by a nut, shoulder, or pin, that rests upon the cap.

A, in the drawing, represents the frame-work of a barn, or other suitable structure.

B is one of the rafters or beams of the same.

C represents a swivelled pulley-block, which is sus-

pended from a hook, *a*, that is fitted through the rafter or beam B. The hook *a* passes vertically through the beam, and through a metal cap, *b*, resting on the beam, and is retained in place by means of a nut, pin, or shoulder, *c*, resting upon the cap *b*, as is clearly shown in fig. 3. In this manner the hook is securely fastened, and cannot drop out of its place.

D D are a series of hooks, arranged at opposite ends or sides of the barn or structure A, in such a manner that the end of a rope, E, which runs over the pulley C, can be fastened to any one desired point at any desired end or side of the barn or structure. In figs. 1 and 2, the rope is represented as being fastened to opposite ends of the barn.

F represents a suitable truck, running upon that portion of the rope E which is stretched between the hook D and pulley C.

From the truck is suspended, in any suitable manner, a hay-fork, G, or a weight or load of suitable description, to which a guide-rope, H, is secured.

The hooks D are lower than the block C, as shown, so that when the rope E is stretched, as shown by red lines in fig. 1, the truck will run towards the hooks, and can there be lowered by slacking the rope E, as shown by black lines in fig. 1, to discharge or take up a load.

When it is desired to make the truck move from the hooks D towards the block C, the rope H is pulled, so as to lower the rope E under the pulley, as shown in fig. 2, and then the truck can be let quite down to take up or discharge its load.

In this manner the truck can be guided to any suitable portion of the barn or structure, to any desired end of the flexible track, and the device will consequently be of great advantage for mowing or stacking hay, or for removing hay from a barn or stack, and for conveying all kinds of loads.

Instead of being on a higher plane, the block C may be lower than the hooks D, when the apparatus will still operate in the same manner above set forth.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The cap *b* and rod *a*, for sustaining the swivelled pulley C, and the series of hooks D, in combination with, and arranged, with relation to the adjustable flexible gravity-track, as herein set forth and shown, for the purpose specified.

WM. D. BROOKS.

Witnesses:

WM. F. MCNAMARA,

ALEX. F. ROBERTS.