

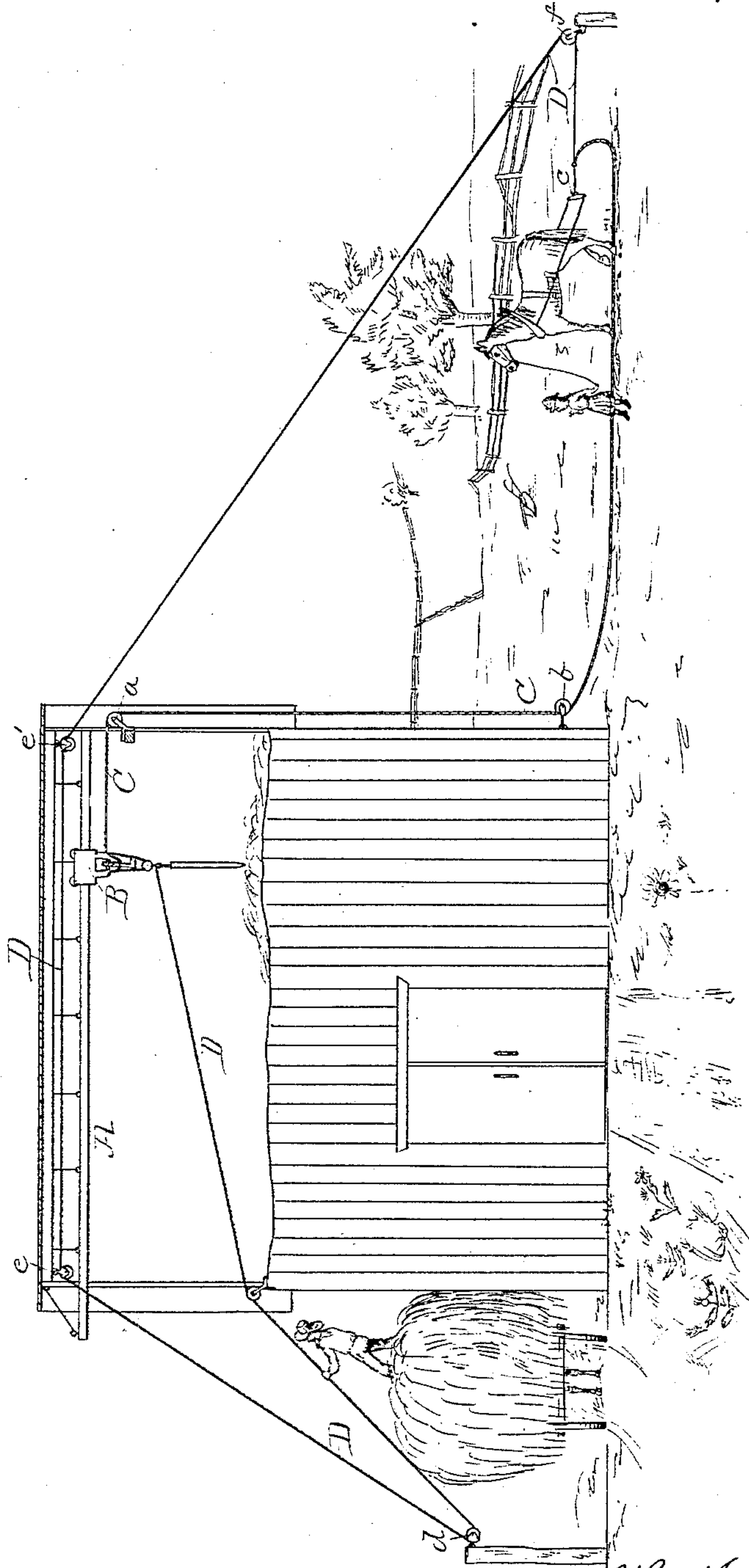
(No Model.)

J. H. MORGAN, Jr.

DEVICE FOR OPERATING HAY CARRIERS.

No. 327,893.

Patented Oct. 6, 1885.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN H. MORGAN, JR., OF NAAUSAY, ASSIGNOR OF ONE-HALF TO JOHN H. MORGAN, SR., OF YORKVILLE, ILLINOIS.

DEVICE FOR OPERATING HAY-CARRIERS.

SPECIFICATION forming part of Letters Patent No. 327,893, dated October 6, 1885.

Application filed July 21, 1885. Serial No. 172,187. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. MORGAN, JR., of Naausay, in the county of Kendall and State of Illinois, have invented certain new and useful Improvements in Devices for Operating Hay-Carriers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which forms a part of this specification.

The object of my invention is to provide means by which both the forward and return walk of the horse may be utilized to draw a hay-carrier to its point of destination, and to return the same when unloaded to its point of loading, substantially as described in this specification and as illustrated in the drawing, which shows a barn the contiguous slant of the roof of which is broken away to illustrate the practical application of my invention.

The drawing represents a side view, in which A is a suspended track or way running parallel and lengthwise under the ridge-pole of the roof of the barn. B represents the hay-carrier traveling on the track, and C the draft-rope running longitudinally to sheaf *a*, then vertically down parallel to the side of the barn to sheaf *b*, and then to the single-tree *c* to which the horse is harnessed.

Substantially the same arrangement of the hay-carrier and draft-rope is used by the old method of operation, only the track is inclined from the point of loading to the place of destination; whereas in my invention I prefer it to be hung on a horizontal plane.

The draft-rope is so used in conjunction with certain devices in the hay-carrier (none of which I lay claim to) that after the hay-fork has been tripped at its point of destination to discharge its load and then return to its first point, the draft-rope will pay out automatically to lower the fork to be reloaded.

Connected to the hay-fork, and leading therefrom in a direction opposite to the draft-rope, is the return-rope D. This rope leads

to a pulley, *d*, on a stretch within easy reach of the man on the hay-cart to pulley *e*, secured near the adjacent end of the barn under the ridge-pole, longitudinally under said ridge-pole to pulley *e* secured under the ridge of the roof at or near the other end of the barn, then to pulley *f* secured to a suitable post some distance from the barn, and from thence to the single-tree *c*.

If desired, or the construction of the building in which the hay is being stored necessitates it, a friction or guide wheel, *g*, may be placed between the hay-carrier and pulley *d*.

The exact arrangement of pulleys and sheaves I have described is not absolutely necessary. Their position may be changed, or some or all of them, with the exception of pulleys *d* and *f*, may be dispensed with. Even these pulleys *d* and *f* could be dispensed with if the invention were operated by hand instead of with a horse.

Any kind of a carrier, hay-fork, or track may be used with my invention without departing from the spirit of my invention.

What I claim as new is—

1. The combination, with a hay-carrier, hay-fork, and track on which the same travels, of the ropes C and D, as described.

2. The combination, with the hay-carrier and hay-fork, of the ropes C and D and pulleys *d* and *f*.

3. The combination, with the hay-carrier and track on which the same travels, of ropes C and D, pulleys *d* and *f*, and single-tree *c*, substantially as and for the purpose set forth.

4. The combination, with hay-carrier and track on which the same travels, of the draft-rope C, return-rope D, pulleys *d* and *f* and *ee*.

5. The combination, with the hay-carrier and track on which the same travels, of the elevator-rope C and return-rope D, and pulleys for directing and determining the course of said ropes.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

JOHN H. MORGAN, JR.

Witnesses:

JOHN H. MORGAN, Sr.,

FRANK D. THOMASON,