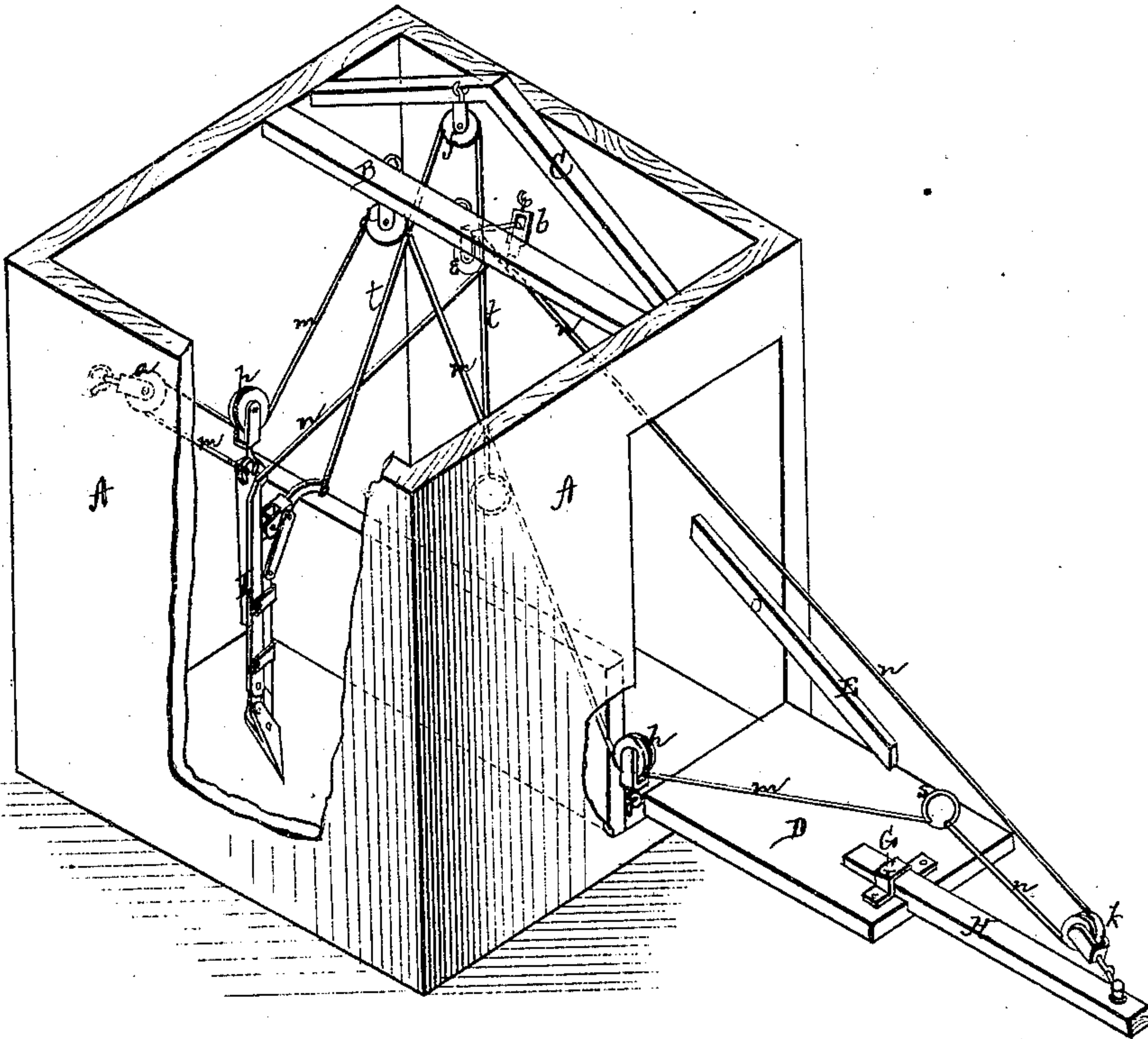


Hay Elevator.

No. 113,837.

*Patented Apr. 18. 1871.*



**Witnesses.**

C. L. Ewert,  
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**Inventor.**

Thomas D. Bayly  
per  
Alexander Mason

Atty's.

# United States Patent Office.

THOMAS VANDOLAH BAYLY, OF JONES' STATION, INDIANA.

Letters Patent No. 113,837, dated April 18, 1871.

## IMPROVEMENT IN HAY-ELEVATORS.

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, THOMAS VANDOLAH BAYLY, of Jones' Station, in the county of Dearborn, and in the State of Indiana, have invented certain new and useful Improvements in Hay-Elevators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in a peculiar arrangement, inside and outside of a barn, of ropes and pulleys, whereby the horse is enabled while moving in one direction to convey the loaded fork from the wagon to the place of deposit, and while moving in the opposite direction convey the fork back to the wagon, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of a barn with my elevator attached thereto.

A represents a barn of any suitable form and dimensions;

B is one of the horizontal bars; and

C, one of the rafters at the top of the barn.

D is a door hinged at its lower end, and turned down, as shown, where it is held by the facing E, on one side, being swung down on a pivot and placed in a notch in the door.

At the outer end of this door D is a loop, G, in which a bar, H, is inserted, as shown.

Pulleys are suspended in the barn as follows:

a and b opposite each other, on the sides of the barn, at any suitable height;

d and e from the cross-beams B; and

f from the rafter C.

Another pulley, h, is attached to the floor of the barn inside of the door, and a pulley, k, at the outer end of the bar H.

I represents the hay-fork, to which the hoisting-rope m and backing-rope n are attached.

A pulley, p, is also attached to the upper end of the fork I.

The hoisting-rope m passes over the pulley a, under the fork-pulley p, over the pulley d, and under h to the outside of the barn, where it is attached to a ring, s, or other device for attaching the horse.

The backing-rope n passes over the pulleys b, e, and k, as shown, and is attached to the ring s. It will readily be seen that by this arrangement, when the horse moves in one direction or from the barn the fork is conveyed in one direction, and when the horse moves toward the barn the fork is moved in the opposite direction.

The tripping-rope t, attached to the fork, passes over the pulley f.

Having thus fully described my invention,

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

1. The arrangement of the pulleys a, b, d, e, f, h, k, and p, hoisting-rope m, backing-rope n, and fork I, all substantially as and for the purposes herein set forth.

2. The door D, facing E, loop G, and bar H, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of February, 1871.

THOMAS VANDOLAH BAYLY.

Witnesses:

JOHN W. MOORE,

JOHN H. NOBLE.