J. JONES.

Hay-Elevator.

No. 162,389. Patented April 20, 1875.

Fig. 1.

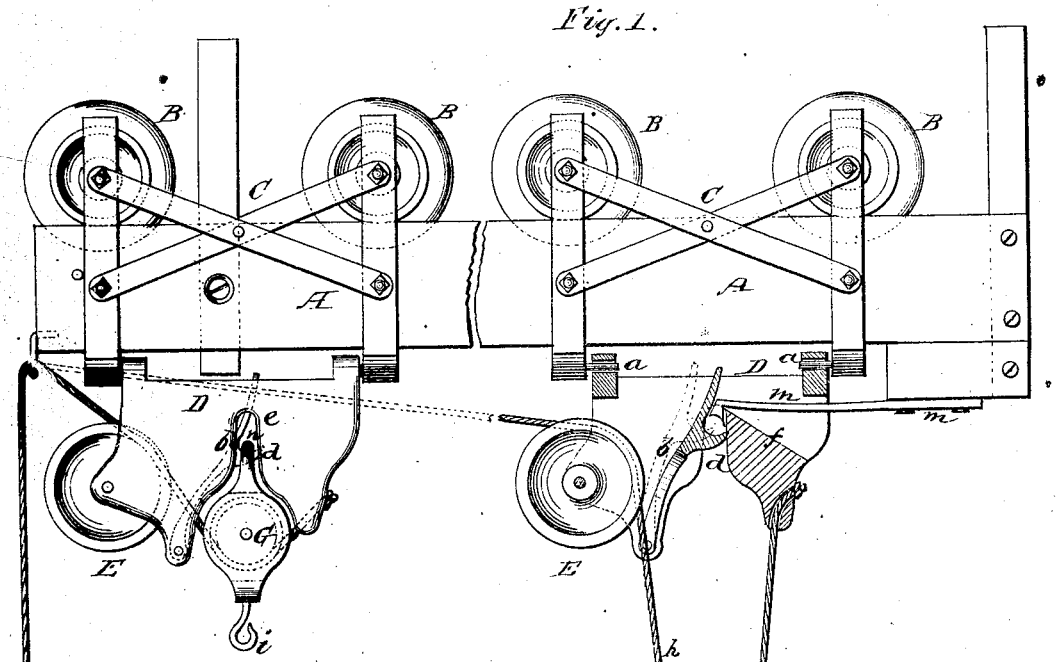
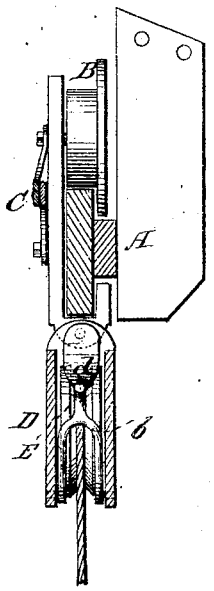


Fig. 2.



WITNESSES:

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JUSTUS JONES, OF BURTONVILLE, NEW YORK.

IMPROVEMENT IN HAY-ELEVATORS.

Specification forming part of Letters Patent No. **162,389**, dated April 20, 1875; application filed March 15, 1875.

To all whom it may concern:

Be it known that I, J. JONES, of Burtonville, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Hay-Carriers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a hay-carrier, 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, in which—

Figure 1 is a side elevation of my hay-carrier, and Fig. 2 is a transverse vertical section of the same.

A represents a beam to be secured to or suspended from the rafters of a barn in any suitable manner, and to run lengthwise of the barn. On this beam run the flanged wheels B B of an ordinary carriage, C. On pivots *a a*, in that part of the carriage below the beam A, is hung a casting, D, at one end of which is a pulley, E. At the same end of the casting is pivoted a forked arm, *b*, having a hook, *d*, formed near its upper end, which falls of its own gravity across an opening, *e*, in the casting. At the other end of the casting is formed an incline, *f*, as shown. At this end of the casting is fastened the hoisting-rope *h*, which is passed through a pulley-block, G, then over the pulley E, and through a loop or over a pulley at the other end of the beam A. *m* represents a latch catching on the upper end of the incline *f* to hold the carriage in position while hoisting the hay. The pulley-block is provided with a hook, *i*, for hanging the hay-fork on, and on the upper end is a loop, *n*. The fork, being full of hay, is hoisted by pulling on the rope *h*. As the pulley-block then ascends, its loop *n* enters the slot *e* in the casting D, turns the hook *d* to one side, and releases the latch *m*. At the same time as the latch is released the arm *b* falls down again, causing the hook *d* to enter the loop *n* and thereby suspend the pulley-block and fork. The continued pulling on the rope *h* moves the carriage along the beam to the point where it is desired to unload the hay, when the trip-rope of the fork is pulled, discharging the hay. As the carriage is allowed to run back on the beam the latch *m* rises over the incline *f* and strikes the arm *b* so as to release the pulley-block at the same time as the latch catches on the upper end of said incline to hold the carriage in place again.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The casting D hung upon pivots *a* in the carriage *c*, and provided with the slot *e*, pulley E, and arm *b*, with hook *d*, substantially as and for the purposes herein set forth.

2. The combination of the carriage B C, casting D, pulley E, arm *b* with hook *d*, incline *f*, latch *m*, rope *h*, and pulley-block G, with loop *n*, all constructed substantially as and for the purposes herein set forth.

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

JUSTUS JONES.

Witnesses:
B. F. CLARK,
W. N. BECKER.