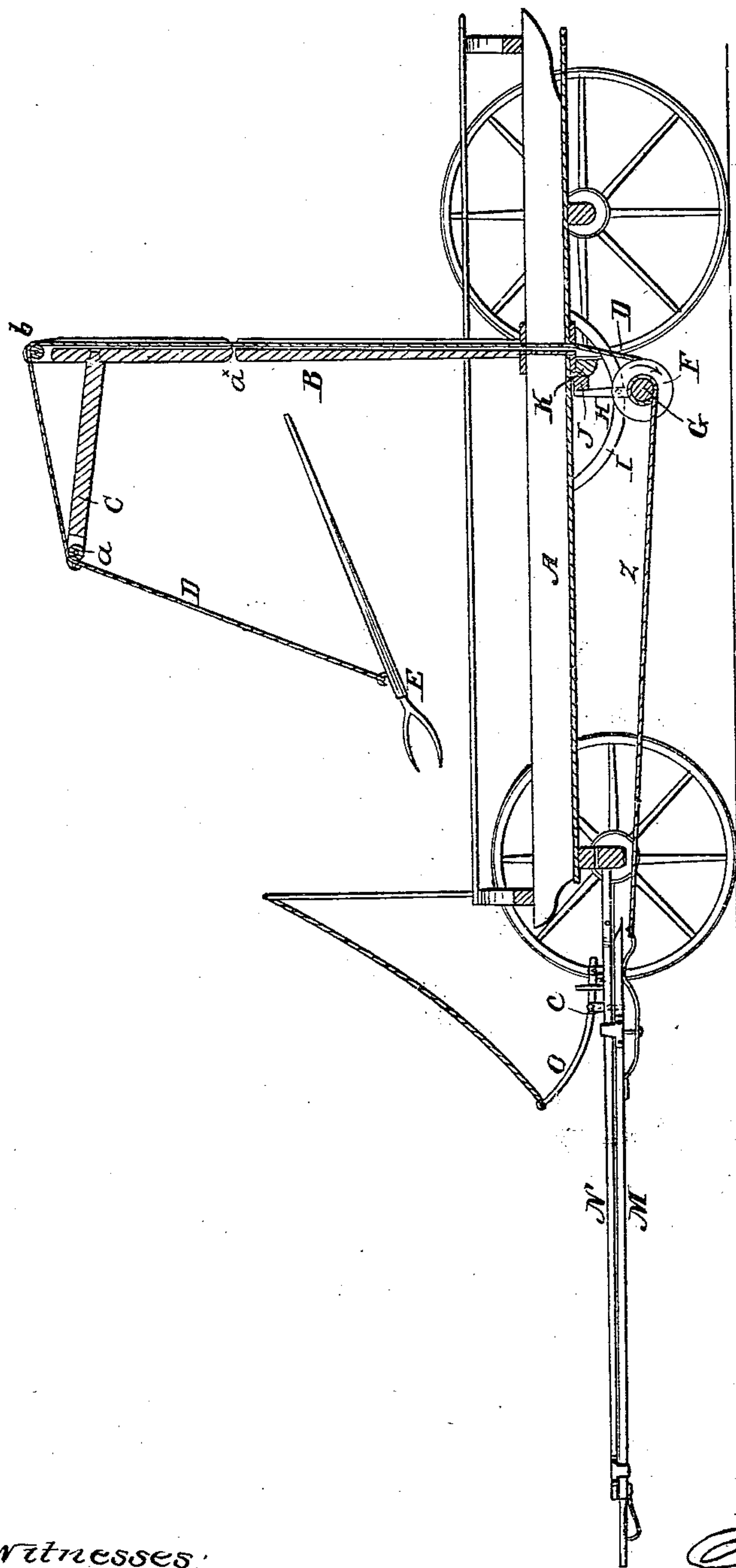


A. M. CLARA.
Hay Loading Wagon.

No. 57,478.

Patented Aug. 28, 1866.



Witnesses:

J. W. Blount
J. A. Davis

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UNITED STATES PATENT OFFICE.

ANGELOS M. CLARA, OF WHITNEY'S POINT, NEW YORK.

IMPROVEMENT IN HAY-LOADING WAGONS.

Specification forming part of Letters Patent No. 57,478, dated August 28, 1866.

To all whom it may concern:

Be it known that I, ANGELOS M. CLARA, of Whitney's Point, in the county of Broome and State of New York, have invented a new and Improved Hay-Loading Wagon; 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 drawing, forming part of this specification, in which the drawing represents a side sectional view of my invention.

This invention relates to a new and improved hay-loading attachment for wagons, the device being also applicable for raising and storing hay in barns.

The invention consists in the combination of a windlass and brake applied to a wagon, and arranged, in connection with the draft-pole thereof, to operate in the manner hereinafter set forth.

A represents a wagon, which may be constructed in the usual or any proper manner, and B is an upright pole firmly secured in the wagon, and having an arm, C, projecting horizontally, or nearly so, from its upper end, the outer end of the arm having a pulley, *a*, inserted in it, and the upper end of the upright pole also having a pulley, *b*, inserted in it, over which a rope, D, passes.

To one end of this rope D a fork, E, is attached, the opposite end passing down at the rear of the upright pole B, and secured to the periphery of a pulley, F, on a shaft, G, underneath the body of the wagon.

The shaft G has its bearings in the lower ends of levers H, which are pivoted to bars I, secured to the sides of the wagon, the upper ends of the levers H being attached to a bar, J, having shoes K at its ends, which are in line with the rear wheels of the wagons.

L is a rope attached to the shaft G, and, extending forward, is attached to the rear end of a slide-bar, M, which is fitted underneath the draft-pole N, and has the team attached to it. This slide-bar M is secured to the draft-pole by means of a pin, *c*, attached

to a pin, O, on the draft-pole, the pin *c* passing through the draft-pole with the slide-bar M.

The rope L is wound around the shaft G in a direction reverse to that in which the rope D is moved around the pulley F, and hence it will be seen that when the rope L is drawn forward the pulley F will be rotated in the direction indicated by arrow 1, and the rope D moved upon it and the fork E raised.

The operation of the device in loading the wagon is as follows: The pin *c* is adjusted down through the slide-bar M, so as to lock the same, and the driver may be on the wagon or walk by the side of the same. An operator walks along by the side of the wagon with the fork E in his hand, or, if any of the dumping-forks are used, it may be carried on the load or allowed to hang down by the side of the wagon.

On arriving opposite a cock of hay the driver raises the lever O, and thereby releases the slide-bar M, and the operator loads the fork, and the team, in going ahead, draws the slide-bar outward, and consequently the rope L, and thereby rotates the shaft G, the pull upon which applies the brakes or shoes K to the rear wheels of the wagon, and holds the same in position, and the loaded fork in the mean time is raised and its load discharged on the wagon by a person on the same.

The operator also loads or fills the fork, winds up the rope L on shaft G, in pulling down the fork, the team being backed at the same time, and when the slide-bar M is fully back it is connected to the draft-pole N, and the wagon is again drawn along to the succeeding cock, which is raised on the wagon as before.

By this same means hay may be elevated from a wagon and mowed away in barns, the pole B being sufficiently high to admit of that result.

I design to have the pole B constructed with a joint, *a*^x, to admit of the upper part being thrown down, so that it may pass through a barn-door.

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

The shaft G, provided with the pulley F, with the ropes L D attached respectively thereto, in combination with the slide-bar M, applied to the draft-pole N, the upright pole B, with arm C projecting from it, and the levers H, in which the shaft G is fitted, and having

the brake or shoe-bar J attached, all arranged and applied to a wagon, to operate substantially as and for the purpose specified.

The above specification of my invention signed by me this 11th day of April, 1866.

ANGELOS M. CLARA.

Witnesses:

WM. F. McNAMARA,

ALEX. F. ROBERTS.