

No. 647,792.

Patented Apr. 17, 1900.

G. BAYLEY.

HAY ELEVATOR.

(Application filed Jan. 28, 1899.)

(No Model.)

2 Sheets—Sheet 1.

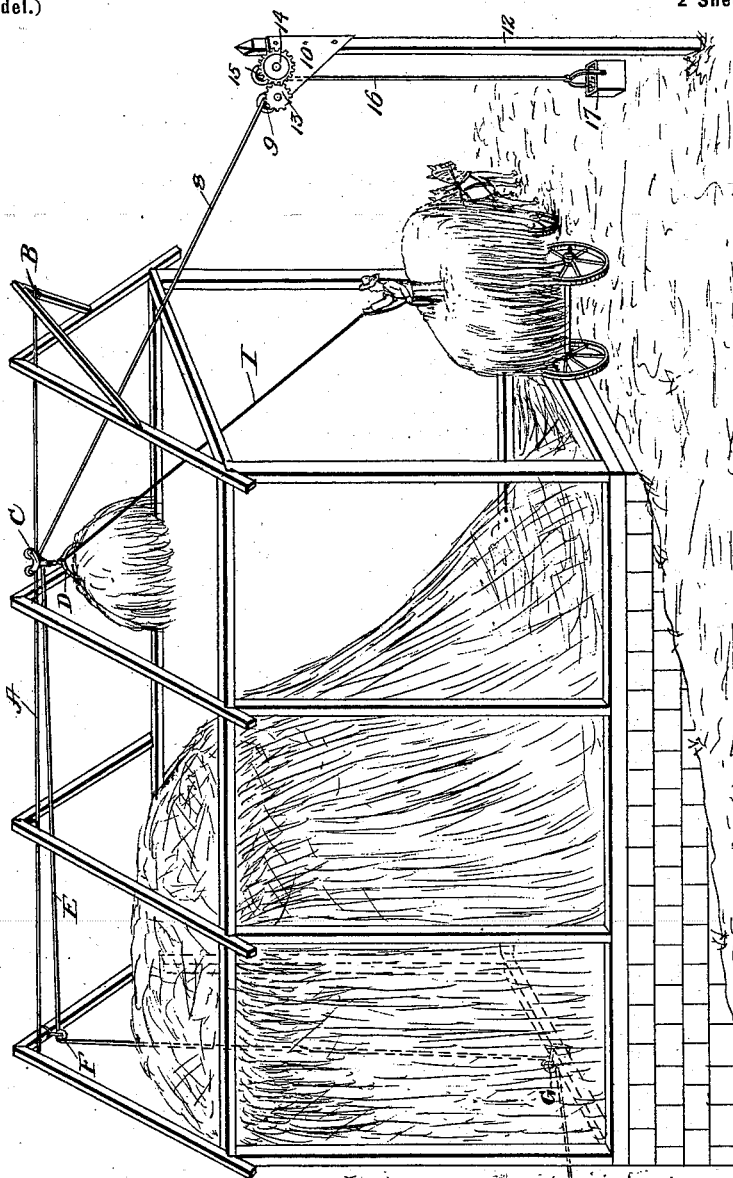


Fig. 1.

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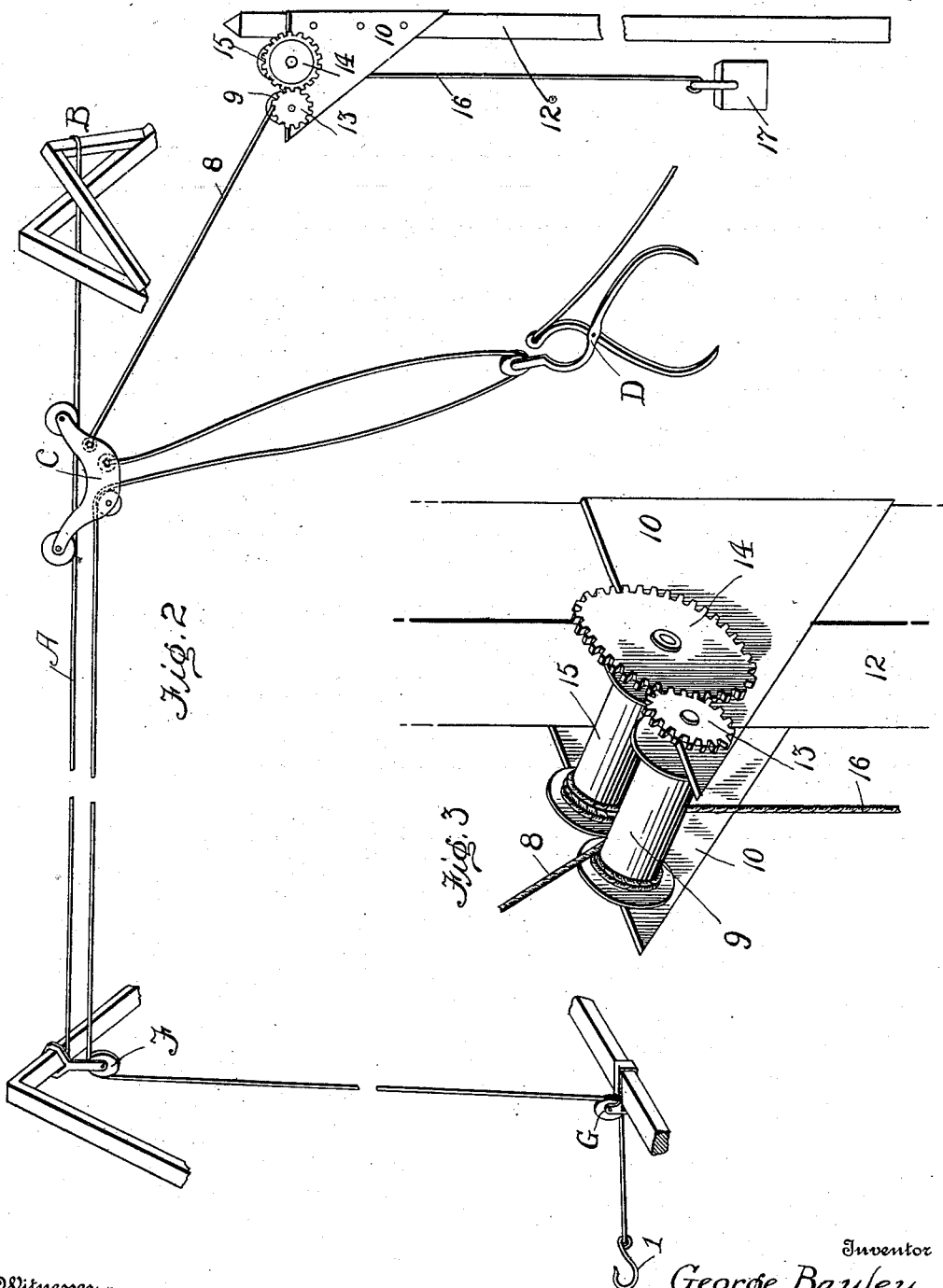
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UNITED STATES PATENT OFFICE.

GEORGE BAYLEY, OF HERALD, ILLINOIS.

HAY-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 647,792, dated April 17, 1900.

Application filed January 28, 1899. Serial No. 703,733. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BAYLEY, a citizen of the United States, residing at Herald, in the county of White and State of Illinois, have invented certain new and useful Improvements in Hay-Elevators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in hay-elevators, and more particularly to a means for automatically returning the carrier to the frog after the fork has discharged its load on the mow; and the object is to provide a simple, convenient, and effective device for this purpose.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention in the several views.

Figure 1 is a perspective view of my improved hay-elevator as it appears in actual use. Fig. 2 is an enlarged diagrammatic view of the operating parts, and Fig. 3 is an enlarged detail view of the weight-actuated windlass for returning the carrier to the frog.

A denotes the track; B, the frog; C, the carrier, and D the fork.

E denotes the hoist rope or cable, one end of which is fixed to the carrier, and it is then rove through the sheave on the fork, thence through a corresponding sheave on the carrier, and it then extends along parallel with the track, thence downwardly through a sheave-block F, suspended from the comb of the barn, thence through a sheave-block G, mounted on the sill, and its free end is fixed to a snap-hook 1, which is detachably secured to the single or double tree carried by the team; and this snap-hook is provided with a hand-rope 6, by means of which the snap-hook may be detached from the single or double tree.

I denotes the trip-rope, extending from the fork to the point from which the hay is being taken.

All of the parts above described, with the

exception of the hook 1, are of the ordinary or any other approved construction and form no part of my invention.

8 denotes the return rope or cable, one end of which is fixed to the carrier C, and its opposite end is fixed to a drum journaled in brackets 10 10, adjustably secured to a stanchion 12. The drum 9 is provided with a pinion 13, which meshes with a gear-wheel 14, fixed on a counter-drum 15, also journaled in said brackets and parallel with the drum 9.

A rope or cable 16 has one end fixed to the drum 15, and its opposite end is fixed to a weight 17, the operation being such that after the loaded carrier leaves the fork it will carry the rope or cable 8 along with it, and as this cable unwinds from the drum 9 it winds the weighted cable 16 on the drum 15.

When the carrier has arrived at the point where it is desired to discharge its load, the trip-rope I is pulled to trip the fork and discharge the load on the mow. The driver of the team now pulls on the hand-rope 6, attached to the snap-hook, which swings open and releases the team, the hoist rope or cable now being released. The weight 17 now exerts its energy through the medium of the rope 16 to turn the drum 15 in the reverse direction, which motion is imparted by the gear and pinion to the drum 9, which in turn winds the rope 8 on said drum 9, and thus returns the carrier to the frog, at which place the fork descends by gravity to the loading-point.

In the accompanying drawings I have shown my invention in the best form now known to me; but various changes in the details might be made within the skill of a good mechanic without departing from the spirit of my invention as set forth in the claim.

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

In a hay-loader, the combination with two supports, one of which is provided with a horizontal track, and the other one is provided with a bracket in substantial alinement with said track; of a carrier on the track, a fork provided with a trip-rope, a hoist-rope secured to the carrier and passed loosely through the fork and provided at its free end with means for moving it in one direction only, two paral-

lel connected drums journaled in the bracket,
and a rope secured to each drum so as to be
wound thereon in opposite directions, one of
which ropes is weighted and the other one is
5 connected at its opposite end with the carrier
upon the track, substantially as and for the
purpose set forth.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

GEORGE BAYLEY.

Witnesses:

ABB RUDD,
LOWRY HINCH.