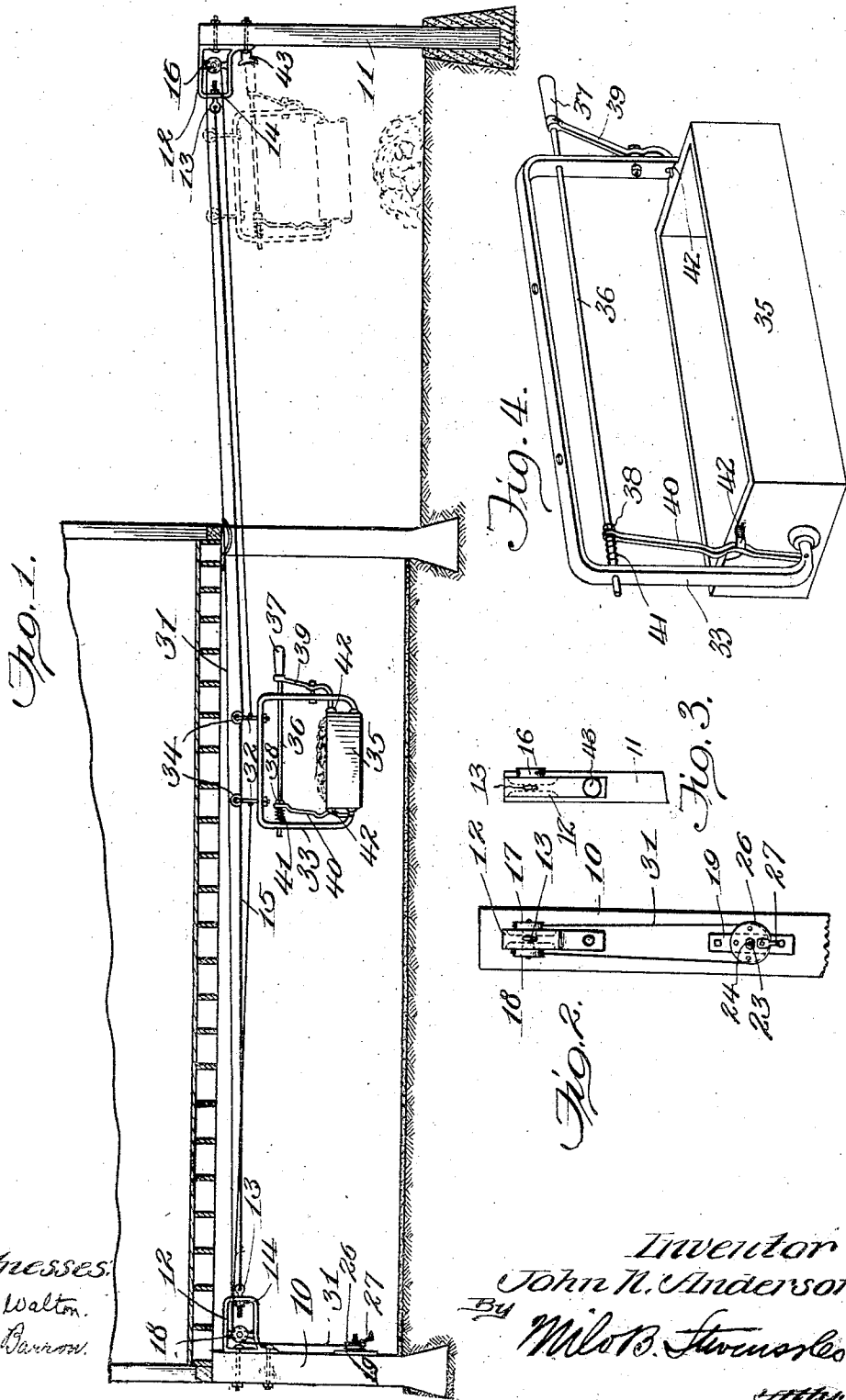


J. N. ANDERSON.
ELEVATED CARRYING SYSTEM.
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969,437.

Patented Sept. 6, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN N. ANDERSON, OF MADISON, WISCONSIN, ASSIGNOR OF ONE-HALF TO CONRAD F. JORDAN, OF MADISON, WISCONSIN.

ELEVATED CARRYING SYSTEM.

969,437.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN N. ANDERSON, a citizen of the United States, residing at Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Elevated Carrying Systems, of which the following is a specification.

My invention relates to elevated carrying systems, useful for any number of purposes, such as, for instance, conveying manure from a stable, and my object is to provide an improved structure as regards certain parts of the system whereby the system as a whole may be made to operate better and in a more convenient manner.

In the accompanying drawings, Figure 1 is a section through a stable building illustrating the practical application of a system embodying my improvements. Fig. 2 is a face view of the inner supporting post and the parts carried thereby. Fig. 3 is a similar view of the outer post and the parts carried thereby. Fig. 4 is a perspective view of the carrier removed.

In the practical embodiment of my ideas, I provide inner and outer supporting posts 10 and 11, the former being, most probably, one of the uprights of a building, for instance, a stable, and the latter being suitably anchored outside the building. Each of these posts has a rectangular bracket 12, securely bolted thereto, through one arm of which is tapped an outwardly projecting eye-bolt 13, held in selected adjustment by nuts 14 within the bracket, whereby to regulate the tension of the overhead trolley-wire 15 extending between the eye-bolts of the two posts. The bracket 12 of the outer post is placed at a higher level than that of the inner post whereby a carrier suspended upon the trolley-wire 15 will, by gravity, descend to the inner supporting post 10. The bracket 12 of the supporting post 11 also has a pulley 16 journaled therein, while bracket 12 of the inner supporting post 10 has a pair of pulleys 17 and 18.

Mounted upon the inner post 10, and securely bolted thereto, below the bracket 12, is a metal plate 19, having an outstanding bolt, upon which is a power wheel 26, having a crank 27, by which it may be manually rotated. The traction cable 31 is doubled about the power wheel 26, and its portions passed separately over pulleys 17 and 18

and one of said portions being continued over and about the pulley 16 of the outer post 11, the ends of said cable being secured to the roller brackets 32 upstanding from the carrier frame 33 and supporting rollers 34. The frame 33 is substantially U-shaped, and its lower extensions are inturned and revolubly connected to the lower central portion of the bucket 35 so that the latter will, when free, rotate to dump its contents.

Mounted through the sides of frame 33 and parallel above bucket 35, is a longitudinally movable trip shaft 36 having an enlarged end 37 at one end, and threaded adjacent its opposite end to receive a nut 38. Adjacent its enlarged end 37, shaft 36 passes through the upper end of a lever 39, immediately pivoted upon the adjacent side of frame 33, while said shaft passes also through the upper end of a lever 40, located between nut 38 and the opposite side of said frame, and held against said nut by a spring 41 coiled about said shaft and compressed between the same and said latter frame side, thus forcing shaft 36 longitudinally and the lower ends of levers 39 and 40 together. Adjacent its upper edge bucket 35 has slotted blocks 42, into the slots of which the lower ends of levers 39 and 40 engage to hold said bucket 35 upright.

The outer post 11, below its bracket 12, has a stop block 43 bolted thereto in the direct path of the trip shaft 36, whereby when the carrier is drawn outwardly, loaded, by rotating power wheel 26 in the proper direction, the enlarged end of shaft 36 will strike the said stop block as the carrier arrives at post 11, and will move said shaft longitudinally, withdrawing the lower ends of levers 39 and 40, and permitting the bucket to rotate and dump.

I claim:

1. In a system of the character described, a carrier comprising a roller frame, a bucket mounted therein to rotate, levers pivoted in said frame and engaging said bucket upon opposite sides to hold the same upright, and a longitudinally movable shaft engaging both of said levers, one of said levers having an intermediate pivot, and the other lever having an end pivot, whereby they may be simultaneously disengaged upon movement of said shaft.

2. An elevated carrying system comprising a pair of supporting posts, a trolley wire

supported between said posts, a roller frame
suspended upon said trolley wire and em-
bodying a bucket mounted therein to ro-
tate, levers pivoted in said frame and en-
gaging said bucket upon opposite sides to
5 hold the same upright, a longitudinally
movable shaft engaging both of said levers,
one of said levers having an intermediate
pivot, and the other lever having an end
10 pivot, whereby they may be simultaneously
disengaged upon movement of said shaft in
one direction, a spring engaging said shaft

in the opposite direction, an operating
cable to move said roller frame, a power
wheel engaging said cable, and a stop block 15
carried by one of said supporting posts and
arranged in the path of the trip shaft.

In testimony whereof I affix my signa-
ture in presence of two witnesses.

JOHN N. ANDERSON.

Witnesses:

MATH. FIGY,

A. H.