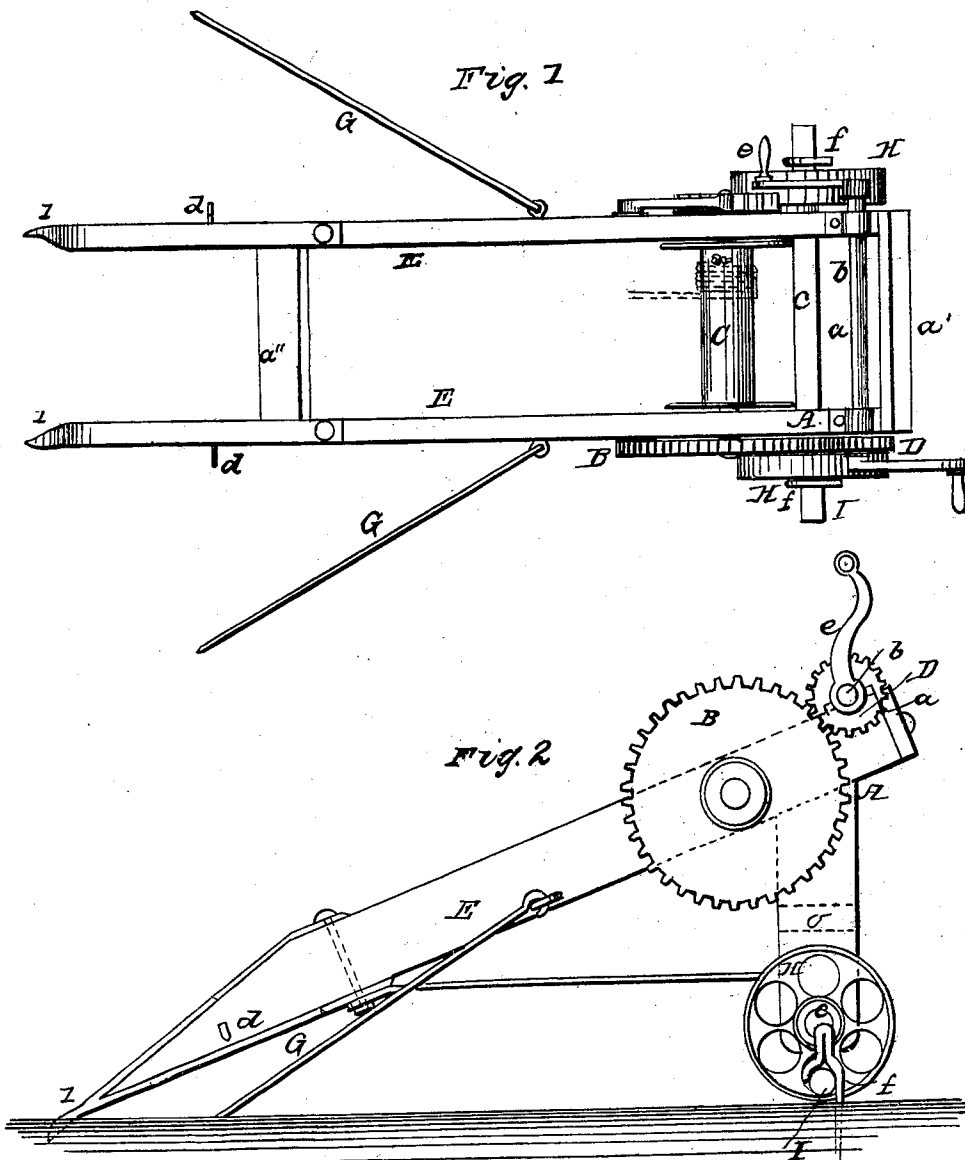


M. N. GORDON.
Truck for Moving Buildings.

No. 107,249.

Patented Sept. 13, 1870.



Witnesses:

C. L. Fisher
H. D. Beck

Inventor.

Matthew N. Gordon

UNITED STATES PATENT OFFICE.

MATTHEW N. GORDON, OF FOSTER'S CROSSING, ASSIGNOR TO HIMSELF
AND JAMES S. GORDON, OF CINCINNATI, OHIO.

IMPROVEMENT IN APPARATUS FOR MOVING BUILDINGS.

Specification forming part of Letters Patent No. **107,249**, dated September 13, 1870.

I, MATTHEW N. GORDON, of Foster's Crossing, in the county of Warren and State of Ohio, have invented certain Improvements in Self-Anchoring Gins, of which the following is a specification:

My invention relates to that class of machines termed the "gin," used by engineers and builders to move buildings, building materials, and for elevating purposes generally; and consists of a vertical frame supported upon two wheels, the principal timbers of the frame being prolonged downward from the top thereof and shod with long curved fingers, which are entered in the ground when the machine is being operated, and to lateral braces attached to the sides of the principal timbers, designated "anchor-arms."

The apparatus for elevating materials consists of the usual drum, gear-wheels, and winch used in the ordinary gin.

Figure 1 is a plan of my improved self-anchoring gin. Fig. 2 is an elevation of the same.

A is the frame of the machine, and consists of two uprights connected together by cross-pieces *a a'* and axle *c*. The axle *c* carries the wheels H H. The two anchor-arms E E are secured to the top of the frame A. They are in length about twice the height of the frame, extend downward, making an acute angle therewith. Their free ends are protected by long pointed fingers I, turned down at the extremity. The cross-piece *a''* connects together the arms E E. To the exterior faces of the arms are pivoted the lateral braces G, provided with sharp ends.

d d are hooks projecting from the sides of the arms E E, near their free end, to receive the lateral braces G when not in use.

The driving-shaft *b* is journaled in boxes secured to the upper face of the anchor-arms E E, nearly over the wheels H H. The ends of the shaft carry winches *e e*, for imparting motion to the working parts of the machine. To the shaft *b* is secured the pinion D, which engages the gear-wheel B, secured to the axle and drum C. A ratchet-wheel is secured to the extremity of the axle which carries the gear-wheel B. It is engaged by a pawl, to

prevent the backward rotation of the drum C, about which the rope or chain is coiled.

I is a bar introduced between the spokes of the wheels, and held firmly in place by staple-pins *ff*, which are driven into the ground when the machine is located for operation.

When the gin is to be employed to elevate materials or move buildings, the pointed fingers I at the extremities of the anchor-arms E E are entered into the ground to such a depth as to render that part of the machine immovable. At the same time the lateral braces G are similarly secured, being inclined from the gin at such angles as will insure its stability under such side strains as may be brought to bear upon it. The wheels H are pinned in place by driving the staples *ff* over the bar I, which is passed through the wheels near the ground into the floor upon which the gin rests. The rope is attached to the object to be moved, the winches are operated, and the drum C revolved, taking up the rope, which under tension draws forward the object in hand or elevates the material, as the case may be. The greater the power necessary to accomplish the result the more firmly will the gin resist dislocation, wherein it is better adapted for general engineering use than is the machine now employed.

Still another advantage claimed for it is the facility of moving it from place to place as business may require.

I claim as my invention—

1. The self-anchoring gin consisting of the frame A, gear-wheel B, drum C, pinion D on driving-shaft *b*, and anchor-arms E, when constructed and arranged to operate substantially in the manner and for the purpose specified.

2. In combination with the above, the lateral braces G, as and for the purpose hereinbefore set forth.

3. In combination with the above, the carriage-wheels H H, as and for the purpose shown and described.

MATTHEW N. GORDON.

Witnesses:

C. L. FISHER,
H. D. PECK.