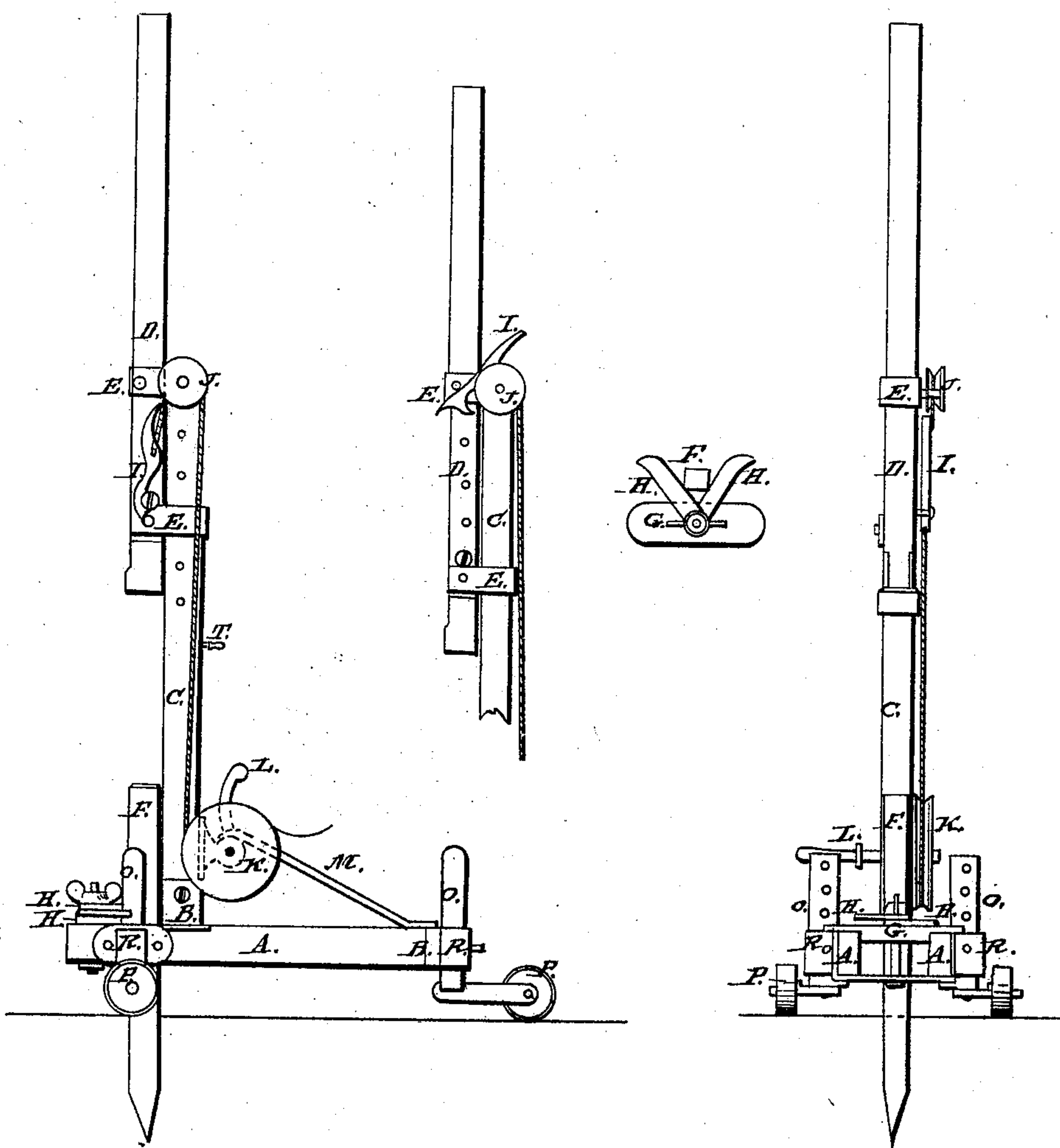


W. Altick,

Fast Driver.

No. 93576.

Patented Aug. 10. 1869.



WITNESSES:

John Owen
Thos. D. Mitchell

INVENTOR:

William Altick

United States Patent Office.

WILLIAM ALTICK, OF DAYTON, OHIO.

Letters Patent No. 93,576, dated August 10, 1869.

IMPROVED MACHINE FOR DRIVING POSTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM ALTICK, of Dayton, in the county of Montgomery, and in the State of Ohio, have invented new and useful Improvements in a Machine for Driving Fence-Posts, &c.; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and letters of reference marked thereon.

In the annexed drawings, making part of this specification—

A A represent the parallel side-pieces, and B B, the cross-pieces, composing the frame of the machine.

C represents the post or upright.

This upright forms a guide for the driving-ram or hammer D, which is provided, at its lower end, with a guide or strap, E, firmly secured thereto.

The top end of the post C has a similar guide, E, to the one above described, for the purpose of directing the drop of the hammer on the top of the fence-posts F, &c.

When driven into the earth, these guides work free, with very little friction. The top guide is bolted to the upright, allowing the ram to slide free. The lower guide, E, slides or guides on the upright post C, thereby holding the hammer D, and directing it parallel to the upright.

When in action, the ram or hammer D may be provided with an iron shoe at the face, giving weight at the lower end of hammer D when the hammer drives the post F into the earth.

The posts to be driven are held in place by two adjustable arms, H H, secured to a movable cross-bar, G, by a bolt or key.

These arms may be adjusted to hold different-sized and shaped posts, and a tripping-hook, I, and the grooved pulley J, and rope attached to the tripping-hook over pulley J to pulley K, to which the rope is secured.

This pulley K is secured to the crank-shaft L, in a bearing on the lower end of the post C.

M represents a diagonal brace, which is bolted to the upright C, near its lower end, and to the rear of the frame, for the purpose of securing the upright firmly.

This upright is hinged in a step or projecting flange, B, for the purpose of linging the post and ram horizontal to the frame, allowing the easy transportation of the machine to and from the field of operation.

The brace M is removed when the upright is hinged back to the rear of the frame, thereby making the machine compact and portable.

R R R represent straps or guides, bolted to the sides of the frame, in which the adjustable posts O O O operate, and are adjusted by a series of holes and pins through the guides and posts, allowing the machine to be adjusted to any uneven ground or hillside, while the upright will remain perpendicular when adjusted.

By this arrangement, this machine can be adjusted to the right or left, forward, or to the rear, thereby making a universal adjustment in a driving-machine.

P P P represent wheels secured to the bottom of the posts O O O.

These posts may be provided with or without the wheels. Shoes may be used.

In using this machine, the ram or hammer D is elevated in position by the crank L and pulley K, drawing the rope over pulley J.

The ram D is provided with a pin, at its lower end, to which the tripping-hook I engages. This hook is drawn over the pulley J, and tripped by the fulcrum on the pulley J drawing the hook from the pin. The ram D drops at once on the top of the post F, &c.

By this arrangement of the pin or guard, the hook is prevented from passing over the pulley J when tripped over.

The ram D may be raised by horse-power, if desired, while the post F is being adjusted to be driven. The pin T is attached to the post C. This pin is removed when the hammer D is in operation.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for driving fence-posts, the construction and arrangement of the post C, ram or hammer D, guides E E, pulleys K and J, tripping-hook I, stop-pin T, substantially as and for the purposes set forth.

2. The adjustable arms H H, secured to the movable cross-bar G, by means of a bolt or key, substantially as and for the purposes specified.

In testimony that I claim the foregoing, I have hereunto set my hand, on this 11th day of June, 1868.

WILLIAM ALTICK.

Witnesses:

JOHN OWEN,

THOS. D. MITCHELL.