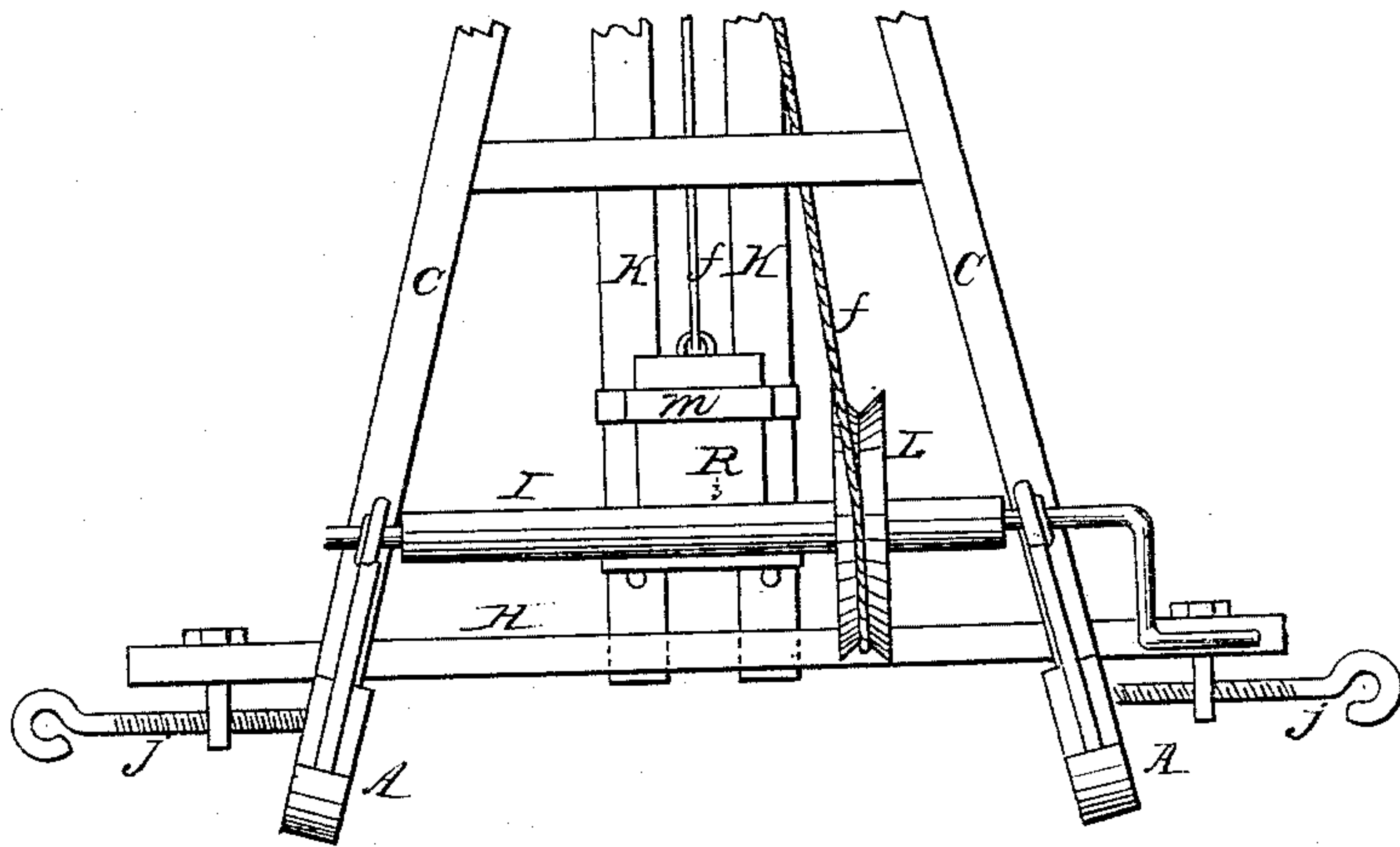
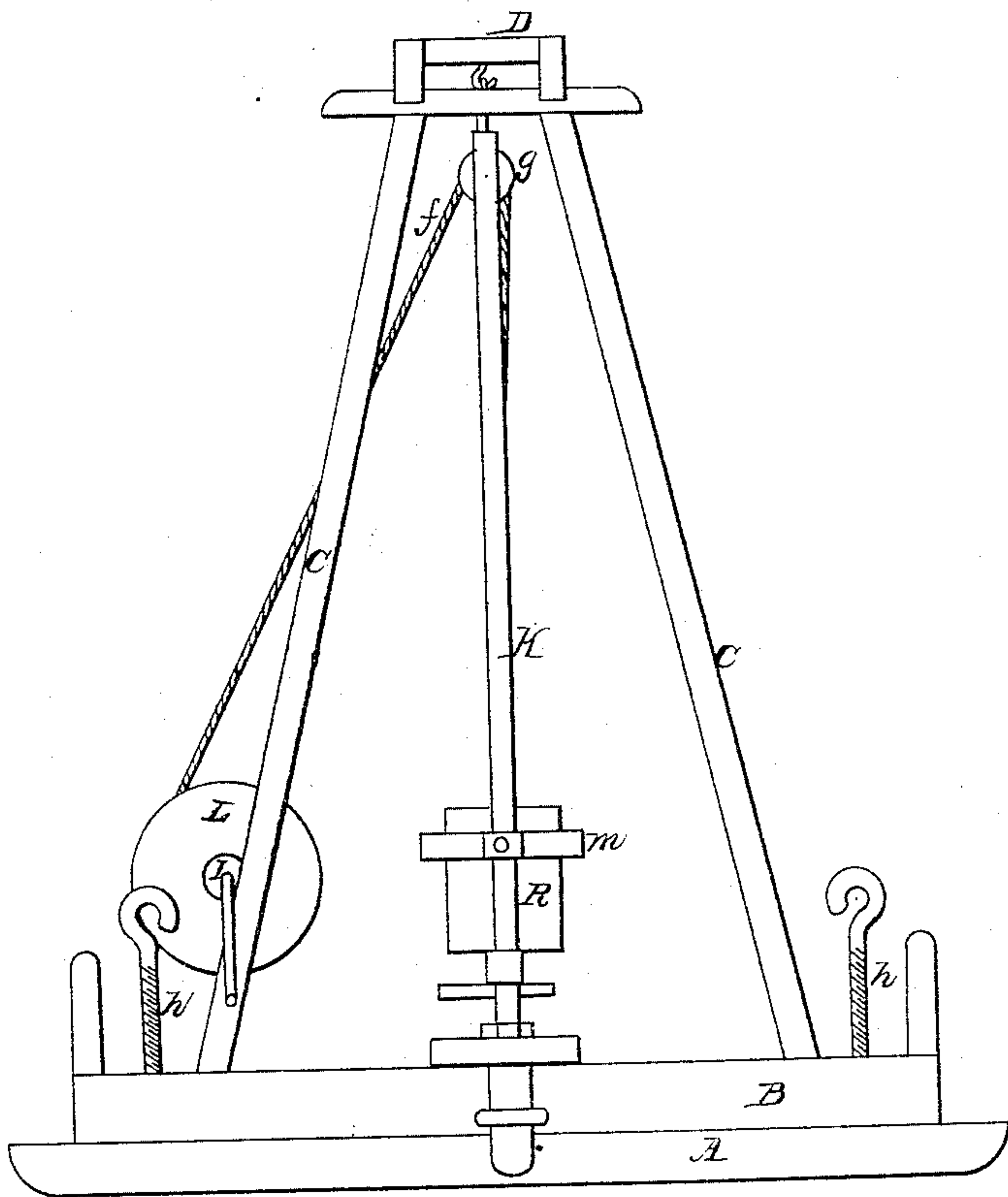


J. Ellenberger.

Pile Driver.

N^o 84,100.

Patented Nov. 17, 1868.



Witnesses:
Wm. Hansleben.
V. D. Stockbridge

Inventor:
Joseph Ellenberger
per Alexander Mason
attys

United States Patent Office.

JOSEPH ELLENBERGER, OF EASTON, OHIO.

Letters Patent No. 84,100, dated November 17, 1868; antedated November 13, 1868.

IMPROVED POST-DRIVER.

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, JOSEPH ELLENBERGER, of Easton, in the county of Wayne, and in the State of Ohio, have invented certain new and useful Improvements in Post-Drivers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification—

A represents the runners, upon which are secured horizontal beams or sills, B B, by means of the screw-bolts *h h*.

The sills B B form a suitable base, into which are framed posts, C C, made of any suitable length, and held firm at their upper end by suitable frame-work.

The four posts C C are set at a slight angle, inclining toward each other at the top, as shown in the drawings.

Suspended to the cross-bar D, by means of a suitable hook and loop, are swinging or vibrating ways or guides, K K, between which the grooved weight R works.

The guides K K are held at the top by means of a suitable cross-bar, and at the bottom by means of a metallic band or stay, *m*, made so that the weight R may pass between and through the sides of the same.

A pulley, *g*, is adjusted between the upper ends of the guides K K, over which the cord *f* passes from the weight R to the winding-pulley L, the said cord *f* being secured to each, as shown.

I represents a shaft, secured to the posts C C, having the winding-pulley L secured to it, and at one end a crank or pulley, to which power may be applied.

The weight R is provided with grooves on opposite sides, in which fit the inner side or edges of the guides K K, so as to hold and guide the same.

H represents a horizontal beam, provided with a notch in its centre, in which fits the lower end of the guides K K, and provided with set-screws *j j*, so as to be adjustable in any position.

The frame or device, above described, may be drawn on its runners A A to any place desired, and the guides K K, being suspended from the top of the frame, assume a vertical position. The lower end of the suspended guides are then rigidly secured, by means of the adjustable beam H, with its set-screws *j j*, and the machine is set up, and ready for work.

This machine is operated by means of the windlass, which draws up or elevates the weight R, which is then let go or dropped upon the head or upper end of a post or pile, as will readily be seen.

Having thus fully described my invention,

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

The arrangement of the adjustable guides K K, grooved weight R, slotted beam H, pulley *g*, cord *f*, and windlass I, with the frame constructed as specified, with its various parts, for operating as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 21st day of March, 1868.

JOSEPH ELLENBERGER.

Witnesses:

I. SPADE,
T. J. McELHENIE.