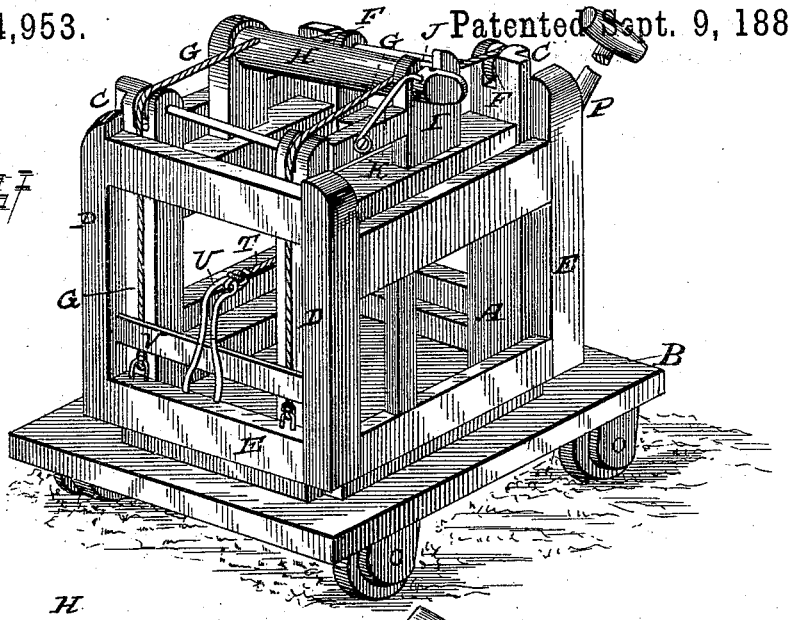
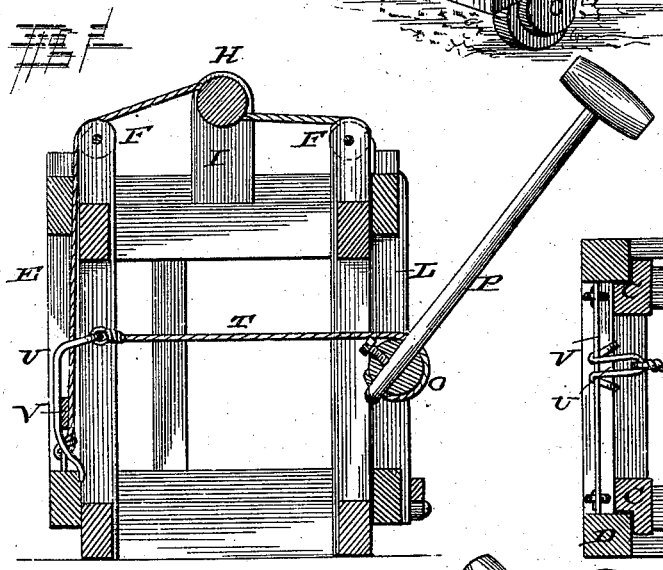
(No Model.)

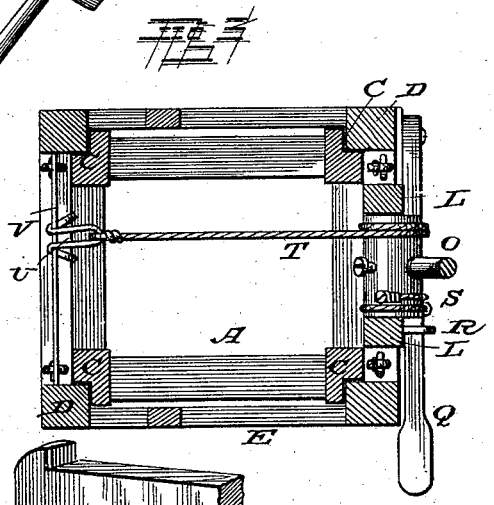
W. B. PHILBERT.

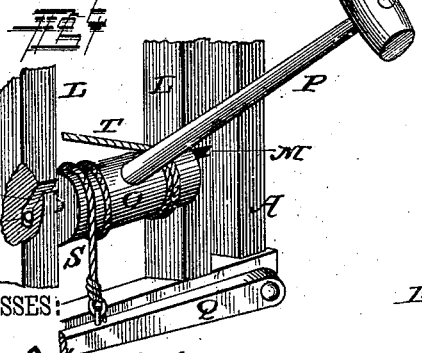
POST DRIVER.

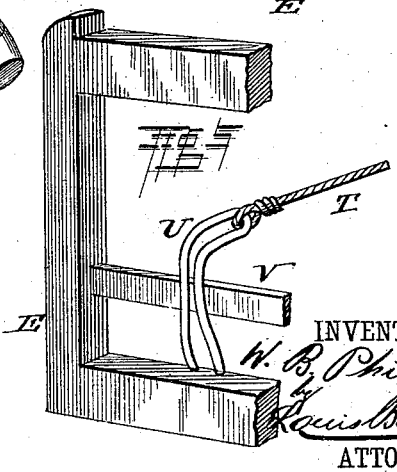
No. 304,953. Patented Sept. 9, 1884.











WITNESSES:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

WHARTON B. PHILBERT, OF LINNEUS, MISSOURI.

POST-DRIVER.

SPECIFICATION forming part of Letters Patent No. 304,953, dated September 9, 1884.

Application filed May 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, WHARTON B. PHILBERT, a citizen of the United States, and a resident of Linneus, in the county of Linn and State of Missouri, have invented certain new and useful Improvements in Portable Fence-Post Drivers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved fence-post driver. Fig. 2 is a vertical section of the same. Fig. 3 is a horizontal section; and Figs. 4 and 5 are perspective detail views of the sledge and its bearings and of the springs drawing it back.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to fence-post drivers; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a rectangular upright frame, mounted upon a wheeled or sliding platform, B, and forming rectangular ways, C, in its corners, in which the inner corners of the corner-posts D of a rectangular sliding frame, E, slide. The upper ends of the corner-posts of the upright frame are provided with pulleys F, over which pass ropes or chains G, attached at their lower ends to the lower end of the sliding frame at its four corners, and attached at their upper ends to the ends of a windlass, H, journaled transversely in bearings I, formed upon the upper edges of two of the sides of the upright frame, and having a circumferential series of perforations, J, at one end, which are engaged by the outer downwardly-bent end of a hook, K, pivoted upon the side of the upright frame. One side of the sliding frame has two vertical posts, L L, which form L-shaped recesses, M, at their middle upon their inner sides, the upper horizontal portions of which recesses open in the outwardly-facing sides of the posts, while the lower ends of their vertical portions form bearings for the trunnions N of a roller, O, in which the inner end of the handle of the sledge P is secured, the sledge projecting out at right angles to the roller. A treadle, Q, is pivoted at one end upon the lower end of the sliding frame at the foot of the vertical posts, and slides with its outer portion in a guide-bail, R, upon the side of the frame, and a rope or chain, S, is secured to near the outer end of the treadle, passes around the roller, and is secured to the same, and another rope or chain, T, is secured to the other end of the roller, passes a few turns around the same, and is secured to the upper inwardly-bent end of a spring, U, consisting of a doubled rod having its lower ends slightly divergent, and secured in the lower cross-bar of the side of the sliding frame opposing to the sledge. The upper portion of this spring bears against the outer side of a transverse spring-bar, V, secured transversely upon the side of the sliding frame opposite to the sledge, serving to add springiness to the doubled spring.

It will now be seen that the platform, with the driver-frames, may be rolled to the post-hole, the post inserted, when, by depressing the treadle, the sledge may be brought down upon the top of the post, when the springs will again raise the sledge, and the sliding frame may be lowered by means of the windlass, and be held in its adjusted position by means of the hook engaging the perforations in the end of the windlass as the post is driven into the ground.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of an upright rectangular frame provided with pulleys at its upper corners and mounted upon wheels or runners, a rectangular frame sliding upon the upright frame, a sledge pivoted upon the sliding frame and having means for operating it, a windlass journaled in the upper end of the upright frame and having means for stopping it, and ropes secured to the windlass passing over the pulleys at the upper corners of the rectangular frame, and secured to the lower end of the sliding frame at its corners, as and for the purpose shown and set forth.

2. The combination of the upright rectangu-

lar frame mounted upon wheels or runners, forming rectangular ways at its corners, and forming bearings at its upper end, the rectangular sliding frame having the vertical posts in one side, forming L-shaped bearings, the pulleys journaled in the upper corners of the upright frame, the windlass journaled in the bearings upon the upper end of the rectangular frame and having the perforations around one end, the pivoted hook, the rope secured to the windlass and to the corners of the sliding frame, the roller and sledge pivoted in the L-shaped bearings, the treadle, the rope secured to the treadle and to the roller, the double bent spring, the rope secured to the roller and to the said spring, and the flat spring-bar bearing against the inner side of the doubled spring, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WHARTON B. PHILBERT.

Witnesses:

T. W. POWERS,

J. V. POWERS.