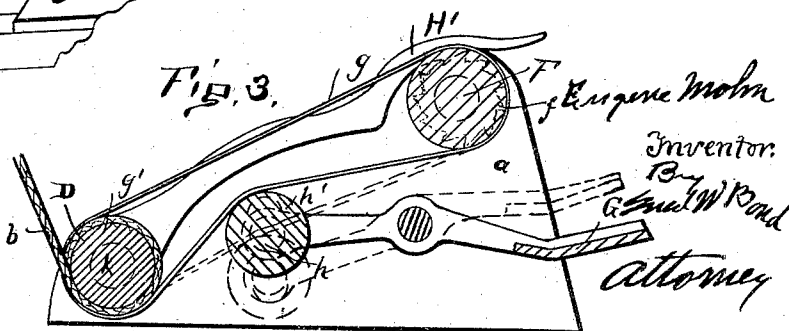
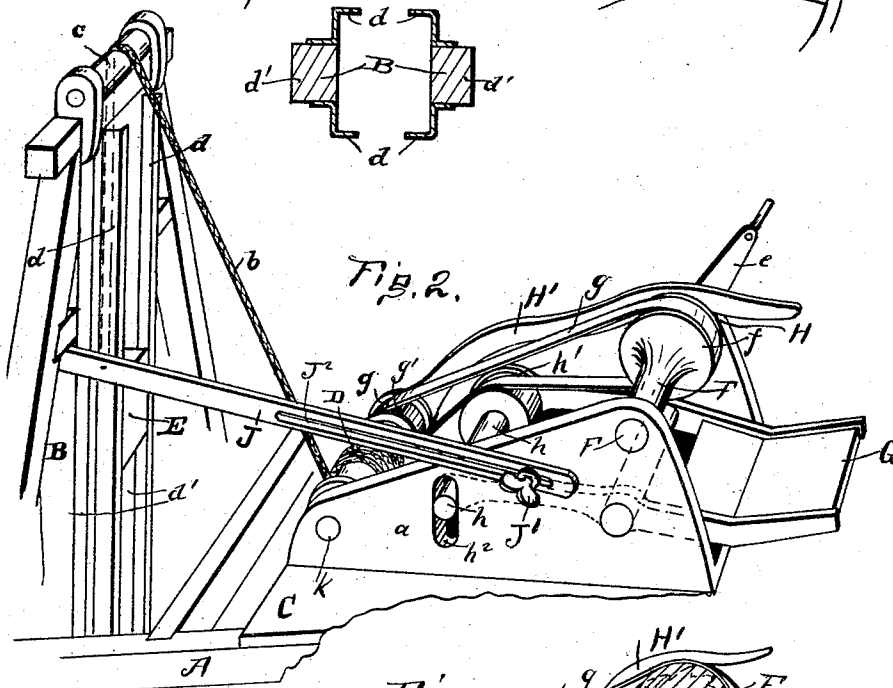
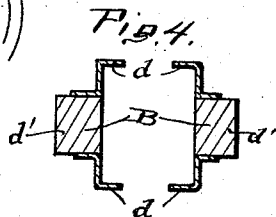
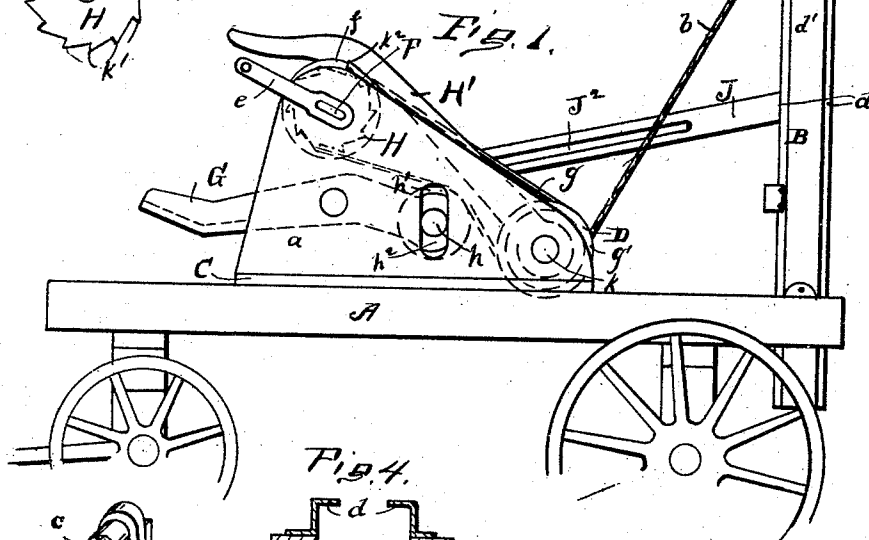
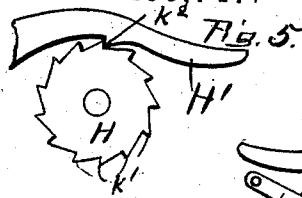


(No Model.)

E. MOHN.
FENCE POST DRIVING MACHINE.

No. 495,747.

Patented Apr. 18, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

EUGENE MOHN, OF BLADENSBURG, OHIO.

FENCE-POST-DRIVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 495,747, dated April 18, 1893.

Application filed November 5, 1892. Serial No. 451,036. (No model.)

To all whom it may concern:

Be it known that I, EUGENE MOHN, a citizen of the United States, residing at Bladensburg, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in Fence-Post-Driving Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1, is a side elevation of the machine showing the same properly mounted upon a wagon. Fig. 2, is an isometrical view showing the wagon removed. Fig. 3, is a longitudinal section showing the derrick removed. Fig. 4, is a transverse section of the weight guide. Fig. 5, is a detached view of the ratchet and its detent.

The present invention has relation to fence post driving machines, and it consists in the different parts and combination of parts hereinafter described and particularly pointed out in the claims.

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

In the accompanying drawings A represents the base of the machine proper, which consists of a rectangular frame properly secured by suitable cross-bars, framed together in the ordinary manner. The frame A is designed and calculated to be mounted upon a wagon and is so mounted for the purpose of being transported from place to place.

To the rear end of the frame A is pivotally attached the derrick B, which may be of any desired height, and should be of such a height that the weight can be elevated sufficiently that when the weight is dropped as hereinafter described, it will strike a heavy blow upon the top or upper end of the fence-post.

To the frame A, is securely attached the platform C, which platform is for the purpose of securely attaching the sides *a*, which sides may be substantially of the form shown in the drawings or they may be of any other desired form, reference being had to properly attaching the different parts as hereinafter described. To the rear end of the sides *a*, is

securely journaled the windlass D, to which windlass is attached the weight-cord or rope *b*, said cord extending upward and over the roller *c*, thence downward and is securely attached in any convenient and well known manner to the striking weight E, which striking weight is located within the derrick B, and is held in proper position by means of the guide flanges *d*, with guide-flanges are attached to the inner uprights *d'*, of the derrick B. To the top or upper portions of the sides *a*, is journaled the crank-shaft F, which crank-shaft is located substantially as illustrated in the drawings, and as shown it is provided with the crank *e*, is for the purpose of communicating motion to the shaft F. The shaft F, is provided with the pulley *f*, around which pulley is located the drive-belt *g*, which drive-belt leads to the pulley *g'*, said pulley being securely fixed to the windlass D, or to the shaft upon which said windlass is mounted. To the sides *a*, is journaled the rock-frame G, and to the rear end of the rock-frame G, is journaled the shaft *h*, which shaft is provided with the idler *h'*, which idler may be loosely mounted upon the shaft *h*, or if desired said idler may be securely attached in any convenient and well known manner to the shaft upon which it is mounted. To one side of the pulley *f*, is located the ratchet wheel H, over which is located the detent H', said detent extending rearward, and is preferably pivoted to the windlass shaft *k*; but it will be understood that said detent may be pivoted at any other point, and the same object accomplished.

In use, the fence-post calculated and designed to be driven is placed so that its top portion will come within the guides *d*, and under the driving weight E, after which the front or forward end of the rock-frame G, is pressed or forced downward thereby elevating the rear end of said rock-frame and carrying the idler *h'*, which in turn tightens the drive belt *g*, when rotary motion is communicated to the pulley *f*, by means of the crank *e*, or its equivalent, thereby communicating rotary motion to the windlass D, and winding the weight cord *b*, around said windlass, which in turn elevates the striking-weight E. When the striking-weight E, has been ele-

vated to the top or upper portion of the derrick or as high as desired, the front or forward end of the rock-frame G, is released, which releases the drive belt *g*, and permits the weight to fall, upon the top of the fence post. The object and purpose of the ratchet-wheel H, and its detent H', is to hold the shaft F, against rotation in one direction, when the striking weight is elevated by means of the teeth *k'*, and the shoulder *k*², until the front or forward end of the rock-frame G, is elevated; at which time the windlass D, is free to rotate independent of the shaft F.

It will be understood that the derrick B while in use should be perpendicular, and for the purpose of adjusting the derrick, its bottom or lower end is pivotally connected to the frame or base A, thereby providing a means for bringing the derrick into perpendicular adjustment, irrespective of the inclination of the ground or surface upon which the wagon stands.

For the purpose of holding the derrick in fixed perpendicular adjustment, the brace J, is provided; one end of said brace being pivotally attached to one of the vertical bars of the derrick, and its opposite end being adjustably attached to one of the sides *a*. For the purpose of holding the brace J, at the desired point of adjustment, the thumb screw J', is provided, which thumb screw passes through the slot J². For the purpose of limiting the downward movement of the inner end of the rock-frame G, the shaft *h*, extends through the slots *h*², the bottom or lower ends of said slots forming a stop against the downward movement of the shaft *h*, said shaft being either journaled or fixed to the inner end of the rock-frame G. The guide-flanges *d*, serve the double purpose of guiding the striking weight B, and at the same time assist in holding the post designed to be driven, in a perpendicular position at the time the post is started into the ground.

It will be understood that the device shown can be used as a pile-driver, the only change

necessary being to increase the capacity of the machine.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the frame A, having pivotally attached thereto the derrick B, the platform C, provided with the upright sides *a*, the windlass D, the weight-cord or rope *b*, leading from said windlass and attached to the striking-weight E, the weight E located within the derrick B, the guide flanges *d*, the rock-frame G, provided with the shaft *h*, carrying the idler *h'*, the shaft F, provided with the pulley *f*, and the driving belt *g*, all arranged substantially as described and for the purpose specified.

2. The combination of the frame A, provided with the derrick B a driving-weight located within the derrick and having attached thereto a cord, the windlass D, journaled to the sides *a*, or their equivalents, the shaft F, provided with the pulley *f*, and the ratchet-wheel H, the detent H', the drive belt *g*, and the idler *h'*, substantially as and for the purpose specified.

3. The combination of the frame A, mounted upon a wagon and provided with the pivoted derrick B, a driving weight located within the derrick and having attached thereto a cord leading to and around the windlass D, the sides *a*, provided with the slots *h*², the shaft *h*, provided with the idler *h'*, the shaft F, provided with the pulley *f*, and the ratchet-wheel H, the detent H', the drive belt *g*, and the rock-frame G, and means for communicating rotary motion to the shaft F substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EUGENE MOHN.

Witnesses:

F. W. BOND,
LAURA SHAEFFER.