

D. M. WATSON.

Improvement in Machines for Driving Fence-Posts.

No. 129,442.

Patented July 16, 1872.

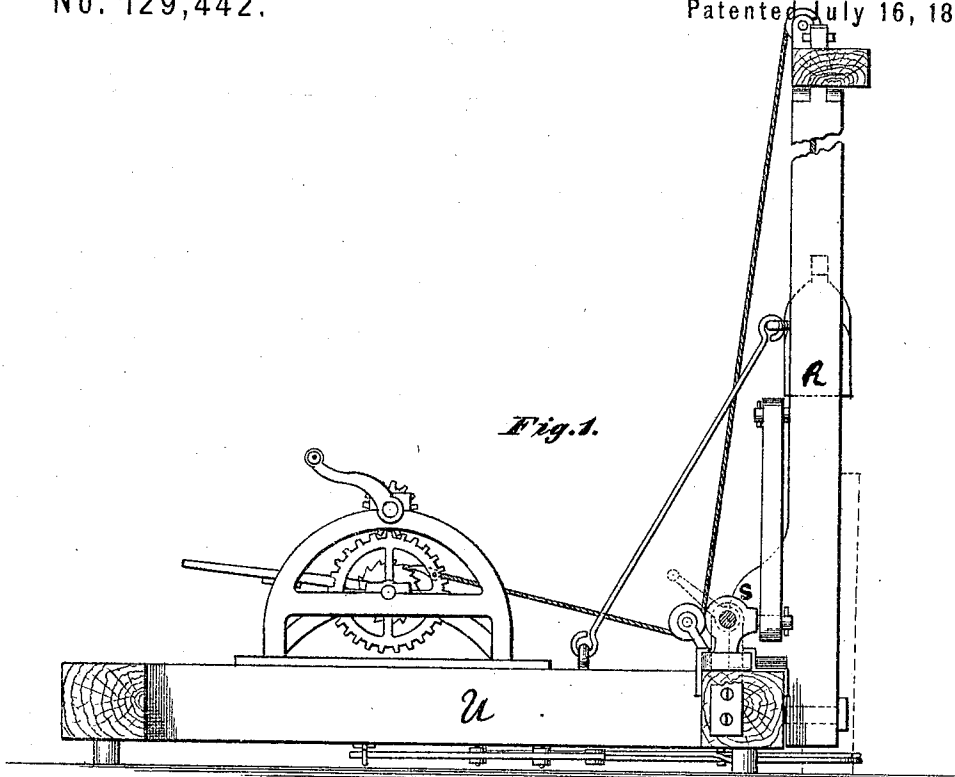


Fig. 1.

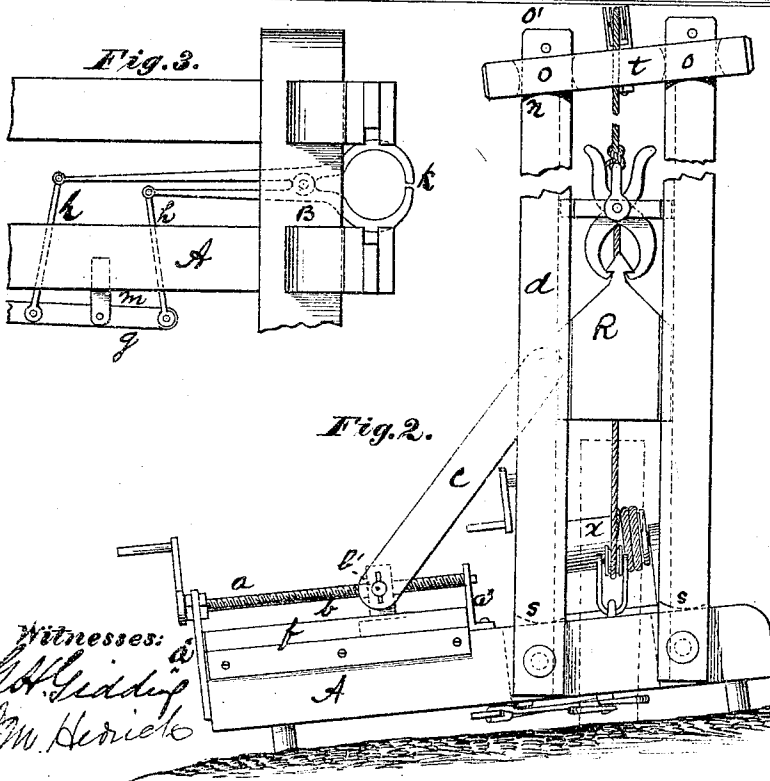


Fig. 3.

Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

DANIEL M. WATSON, OF ALBIA, IOWA.

IMPROVEMENT IN MACHINES FOR DRIVING FENCE-POSTS.

Specification forming part of Letters Patent No. 129,442, dated July 16, 1872.

To all whom it may concern:

Be it known that I, DANIEL M. WATSON, of Albia, in the county of Monroe and State of Iowa, have invented certain Improvements in Machinery for Driving and Setting Fence-Posts and Piling, of which I declare the following to be a full description:

The nature of my improvement is, first, to level the bed-frame or plumb the guide-posts of the driving-hammer by means of a stationary screw operating upon a movable brace by means of a sliding nut having the effect to lengthen or shorten the brace; second, to encircle the top end of the post (to be driven) in a way to keep the same perpendicular while being driven by means of a double-acting lever operating a tongs, so as to steady the post and keep it in place; third, by rounded shoulders on the ends of the hammer-guides, and by long mortises in the upper cross-beam, so as to allow the hammer-guides to oscillate, having the effect to plumb the same or level the bed-frame.

Referring to the accompanying drawing, Figure 1 is a side elevation of the device. Fig. 2 is a front elevation of the device. Fig. 3 is a bottom view, showing the lever and tongs.

The screw *a* is attached by suitable supports to the sill A of the bed-frame, and carries a nut, *b*, that moves in suitable guides *f*, and is connected by a wrist-pin, *b'*, to the lower end of the brace *c*, which is fastened, at its upper end, (so as to permit a slight motion,) to the hammer-guides *d*, for the purpose of plumbing the hammer-guides or leveling the bed-sill. The double-acting lever *g* is attached by a suitable fulcrum, *m*, to the sill A, and is connected, by rods *h h*, to the arms of the tongs *k*, the whole being ar-

ranged for the purpose of holding in proper positions the pile or post to be driven. The shoulders *n* on the upper end of the hammer-guides *d* are rounded; and the mortises *o* in the upper cross-beam are longer than the tenons *o'* on the hammer-guides, so as to permit the hammer-guides to oscillate. Rounded blocks or shoulders *s* are attached to the lower ends of the hammer-guides to take the bearings thereof to permit them to oscillate freely at their lower ends to carry them over the front sill B, so as to permit the hammer to descend without obstruction. The hammer R and the windlass *x* may be of any suitable construction and suitably arranged, as shown.

I claim as my invention—

1. A screw, *a*, carrying a nut, *b*, in combination with a brace, *c*, attached at one end to the screw *a* and at the other to a post, for the purpose of plumbing the post, substantially as set forth.

2. The combination of the hammer-guides *d*, having the rounded shoulders *n* and the tenons *o'*, the cross-beam having long mortises *o* and the rounded shoulder-blocks on the lower end of the hammer-guides, substantially as and for the purposes set forth.

3. The combination of the screw *a*, nut *b*, brace *c*, hammer-guides *d*, cross-beam *t*, and shoulder-blocks *s*, all constructed and arranged substantially as and for the purpose set forth.

4. The lever-bar *g*, connecting-rods *h h*, and tongs *k*, all combined, constructed, and arranged as and for the purposes set forth.

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Witnesses:

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