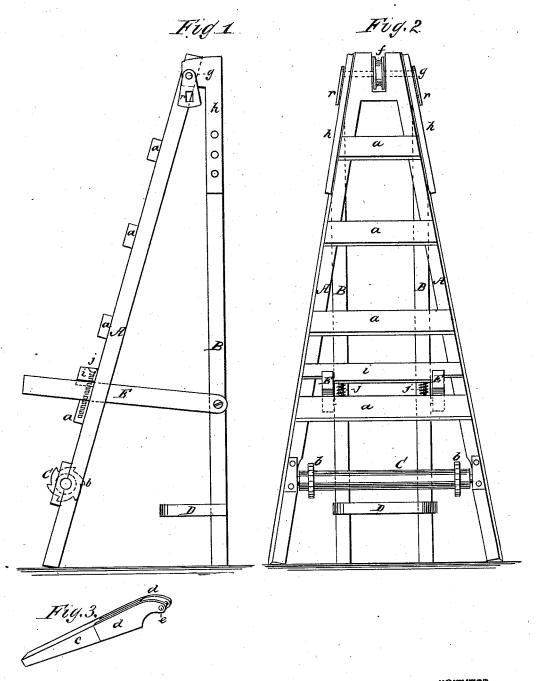
J. GREGG. PILE-DRIVER.

No. 186,831.

Patented Jan. 30, 1877.



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John Goethals.

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN GREGG, OF RIVERTON, IOWA, ASSIGNOR TO HIMSELF AND JAMES MILLER, OF SAME PLACE.

IMPROVEMENT IN PILE-DRIVERS.

Specification forming part of Letters Patent No. 186,831, dated January 30,1877; application filed August 14, 1876.

To all whom it may concern:

out in the claims.

Be it known that I, John Gregg, of Riverton, in the county of Fremont and State of Iowa, have invented a new and Improved Pile Driver, of which the following is a specification:

Figure 1 is a side elevation. Fig. 2 is a front elevation. Fig. 3 is a detail view of a lever for operating the windlass.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed

A A are inclined side pieces of a derrick, having the cross-bars a connecting them at intervals. C is a windlass or winding-drum, journaled in the side pieces A A, and having ratchet - wheels b at each end, which are provided with hooked teeth. Fig. 3 represents a lever for working the windlass, that consists of the handle c and the side plates d. A pin, e. connects these plates at their outer extremity, and when the lever is placed so that the plates embrace the sides of the ratchet-wheels, the pin e engages with one of the hooked teeth of the ratchet. A sheave, f, is placed between the side pieces A, at the top, on the pin or bolt g, that projects beyond the side pieces sufficiently to receive the hingeplates h. The guides B are secured to these plates, and are provided with a yoke, D, which holds them parallel. E E are braces that are pivoted to the guides B, and are clamped between the lower cross-bar a and a bar, i, that is drawn down on the braces E, by screws j.

When the device is used as a pile-driver, guyropes are fixed in eyes r, attached to the ends of the bolt g, and the derrick is inclined, so that its top is directly over the place when the pile is to be driven. The clamp i is loosened, and the guides B are allowed to swing into a vertical position, where they are secured by the clamp i engaging the braces E. .The weight or hammer is raised by turning the windlass by means of the lever c, a rope being attached to it, and running over the sheave f, and attached to the hammer moving in the guides B.

When the apparatus is used as a derrick, the guides B are folded close to the pieces

Having thus described my invention, I claim as new and desire to secure by Letters Patent-

- 1. In combination with the guides B, side pieces A, and lower cross-bar a, the braces E, clamping bar i, and screws j, substantially as specified.
- 2. The combination of the lever, consisting of the handle c, plates d, and pin e, with the ratchet-wheels b, substantially as shown and described.

JOHN GREGG.

Witnesses:

W. H. ANDERSON, JONAS C. THATCHER.