

(No Model.)

H. LANDIN.
Post Hole Borer.

No. 234,992.

Patented Nov. 30, 1880.

Fig. 1

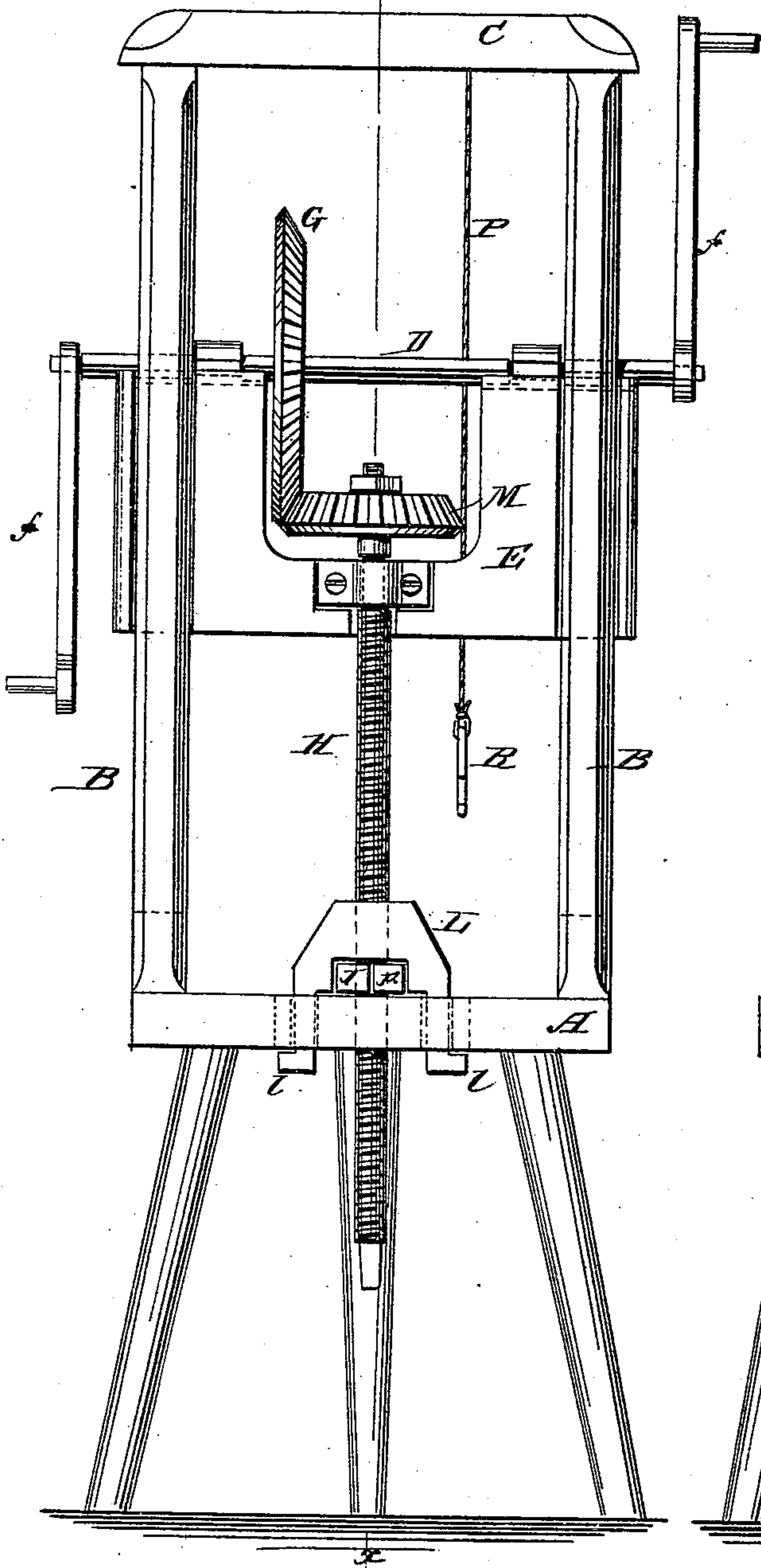


Fig. 2

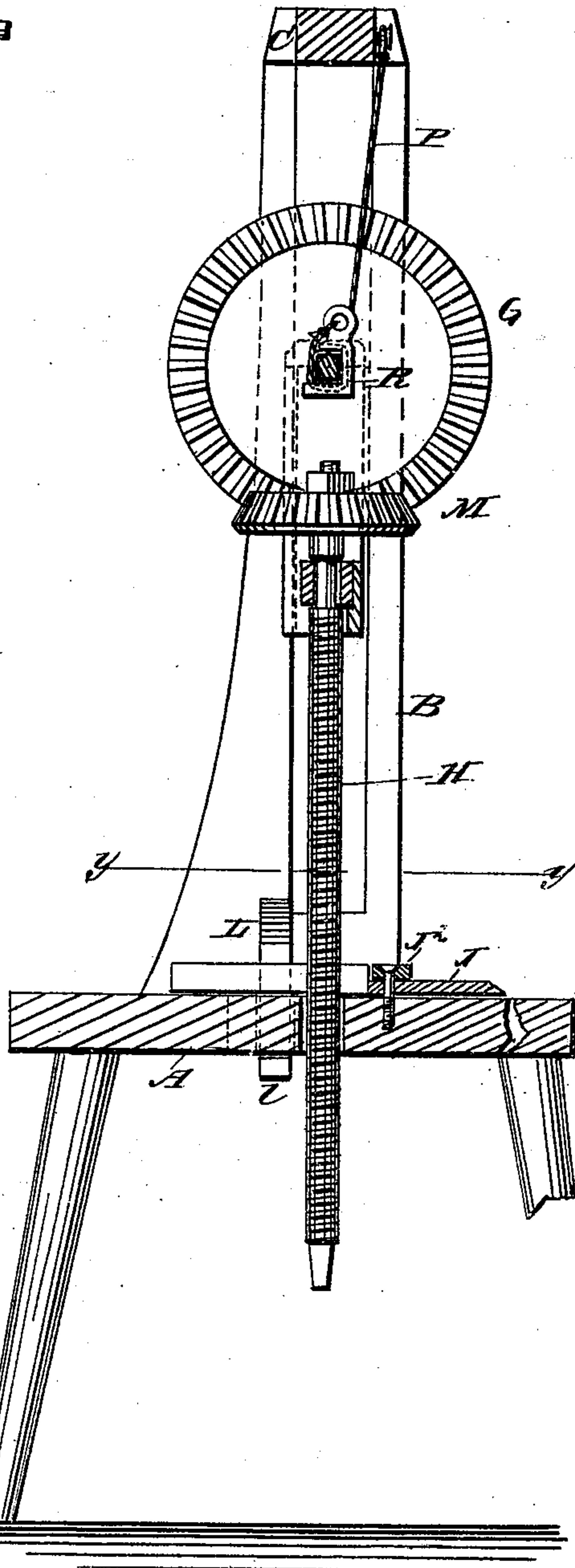
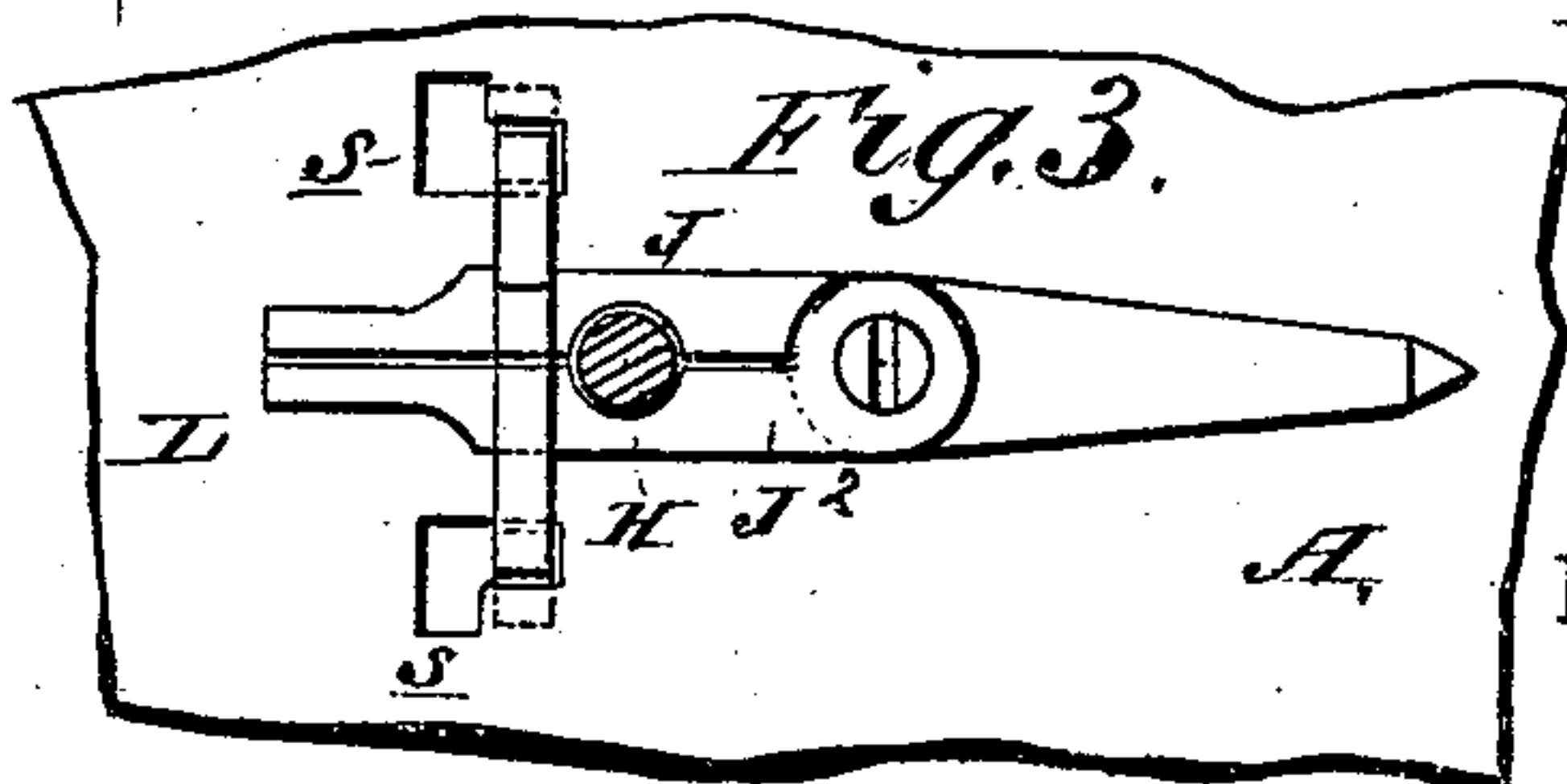


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY LANDIN, OF FOREST, OHIO.

POST-HOLE BORER.

SPECIFICATION forming part of Letters Patent No. 234,992, dated November 30, 1880.

Application filed June 9, 1880. (No model.)

To all whom it may concern :

Be it known that I, HENRY LANDIN, of Forest, in the county of Hardin and State of Ohio, have invented a new and useful Improvement in Post-Hole Borers, of which the following is a specification.

The invention consists in a yoke having toes, in combination with a divided nut and slotted bench, and a cord and hook combined with a shaft, gearing, and boring-shaft, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of an apparatus embodying my improvements. Fig. 2 is a vertical section taken in the line xx of Fig. 1. Fig. 3 is a horizontal section taken in the line yy of Fig. 2.

Similar letters of reference indicate corresponding parts.

A represents a bench, provided with a seat for the operator. From this bench rise two standards, B, connected at their upper ends by a cross-bar, C. The standards B are slotted, and in the slots work the ends of a sliding cross-head, E, in the upper portion of which is journaled a horizontal shaft, D, provided with two cranks, f , and carrying a bevel-gear wheel, G. At about the center of the cross-head E is journaled the upper end of a vertical shaft, H, which is screw-threaded for nearly its entire length. This shaft works in a divided nut consisting of two internally-threaded jaws, J J², pivoted on the bench A, and held in place by a yoke, L, at the lower

ends of which are toes l l . In the bench A, on either side of the jaws J J², are slots s , of such shape as to allow the toes l to pass through them and then engage with the under side of the bench, in order to lock the jaws J J².

The lower end of the shaft H carries a boring-tool of any suitable description, and its upper end carries a bevel-gear wheel, M, driven by the wheel G.

The operator sits on the bench and operates the borer by turning the cranks f . When the desired depth has been reached the yoke L is removed and the jaws J J² are separated, so as to clear the threads of the boring-shaft H, which is then raised by attaching to a squared portion of the horizontal shaft D a hook, R, carried by a cord, P, suspended from the cross-bar C, and continuing the motion of the cranks, so as to wind said cord P around said shaft D.

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

1. The yoke L, having the toes l , in combination with the divided nut J J² and the bench A, provided with the slot s , as shown and described, for the purpose specified.

2. The cord P and hook R, in combination with the shaft D and the gearing and boring-shaft operated thereby, as shown and described, for the purpose specified.

HENRY LANDIN.

Witnesses:

L. E. COOK,
W. T. GEMMILL.