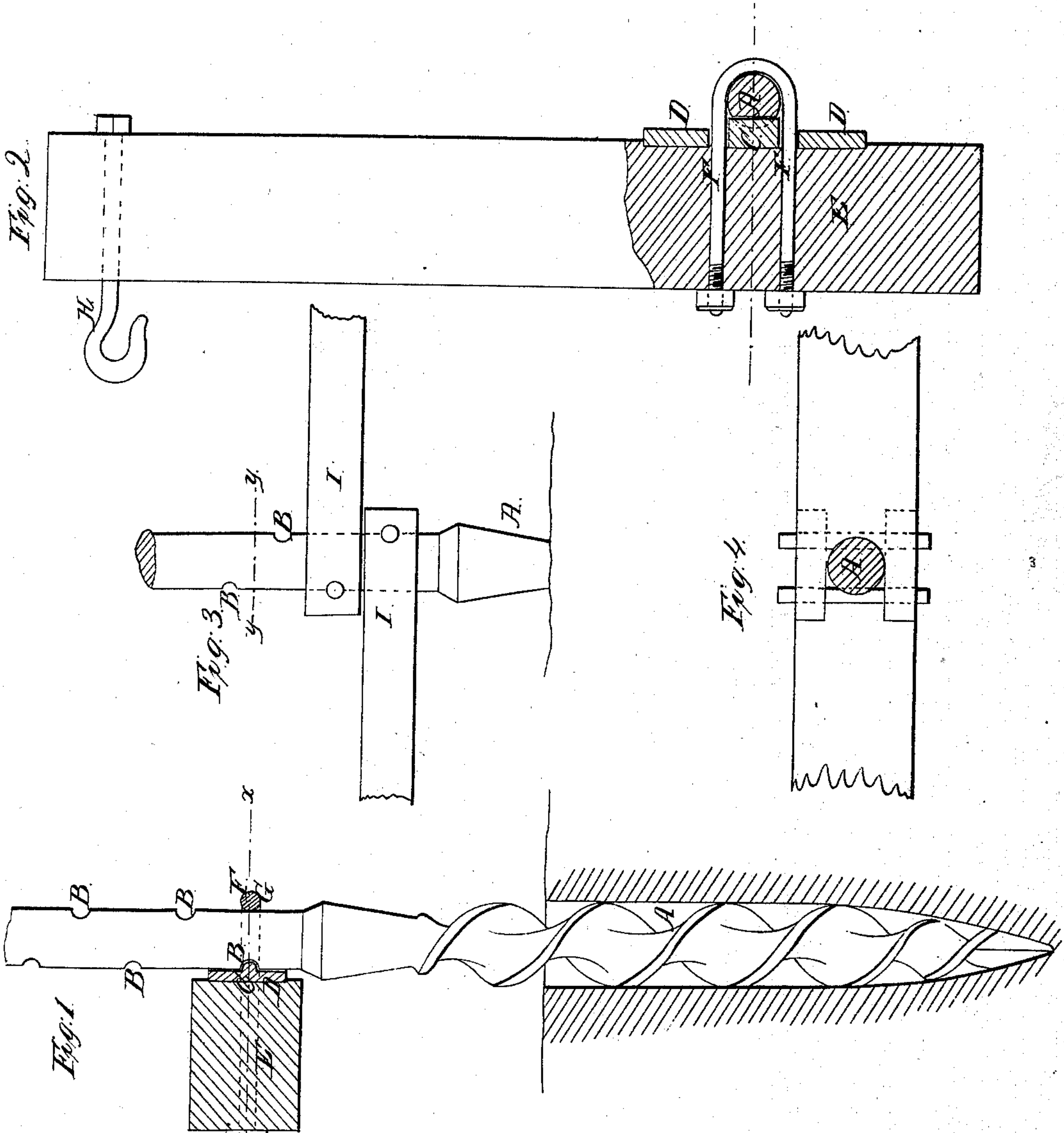


P. Ollom.
Earth Auger.

N^o 62,216.

Patented Feb. 19, 1867.



Witnesses;
Theo. Tusch
J. A. Service.

Inventor;
P. Ollom
Per Munn & Co.
Attorneys.

United States Patent Office.

PETER OLLOM, OF MUNCIE, INDIANA.

Letters Patent No. 62,216, dated February 19, 1867.

IMPROVED WELL-BORING AUGER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, PETER OLLOM, of Muncie, in the county of Delaware, and State of Indiana, have invented a new and useful improvement in the Sinking of Bored Wells; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention relates to the sinking of bored wells, and consists more particularly in an improvement in an auger, and in the manner of hanging and operating the same for the boring of the well. In the accompanying plate of drawings my invention is illustrated—

Figure 1 being a side elevation of the auger, with the lever by which it is turned shown in cross-section, as applied to it.

Figure 2, a partial horizontal section of operating lever, taken in the plane of the line *x x*, fig. 1.

Figure 3, a side view of auger, having arms applied to it for withdrawing it from the ground; and

Figure 4, a horizontal section, taken in the plane of the line *y y*, fig. 3.

Similar letters of reference indicate like parts.

A, in the drawings, represents the auger, which I make of cast steel, of suitable size, both in its diameter and length. This auger A is shaped like an ordinary carpenter's auger, except, in lieu of a screw-point, it is made with three similar sides or faces. The shank of the auger, at its lower end, is made of about one and one-quarter inch in diameter, gradually increasing in size from such end for two inches of its length, where it is made two inches in diameter, and from that point decreased in diameter for one inch of its length, until it is one and one-half inch in diameter, whereby a belt is formed upon the shank, which packs the dirt as the auger passes or bores through the ground, and which I denominate the "packer." B, notches formed in the shank of the auger, about two and one-half feet above the packer-belt of the same, and above that point every two and one-half feet apart. These notches are provided for the projection or rib C, on the plate D, attached to lever E, inside of the clevis F, to fit in, the said clevis being put on the auger or rod at those points as shown in fig. 1 of the drawings. The said plate D I make of iron; but the projection or rib C of the same I form of steel. The clevis being put around the auger and rod at the notches of the same, with the projection or rib of the plate inserted in such notches, and the taps G in the outer ends of the clevis, by tightening such taps the lever is thereby so firmly fastened to the auger that, when turned by any suitable power, the rod or auger will be turned in conjunction with it. The lever I make of wood, of suitable size, shape, and has the clevis at or near one end, with a hook, H, at or near the other, to attach or harness the horse to, by which the auger is to be driven. In order to draw the auger from the well after being bored, I employ two yokes I I, made of bar iron, or other suitable material, with jaws at one end, and an iron bolt to pass through the ends of the jaws. To raise the auger out of the well, the yokes are first secured in the rod, one on each side, when, putting a lever under the yokes, resting upon a block as a fulcrum, and then bearing down upon the same, the auger will be elevated or drawn up, this operation being repeated until the auger has been drawn out to the required or desired distance. By the improvement embraced in this invention wells can be sunk in a much less time, and with considerable less expense, than by the ordinary mode of sinking of wells.

I claim as new, and desire to secure by Letters Patent—

The improved auger or well-borer constructed and operated substantially as described.

PETER OLLOM.

Witnesses:

DAVID O. MUNSEY,

WM. J. MOORE.