

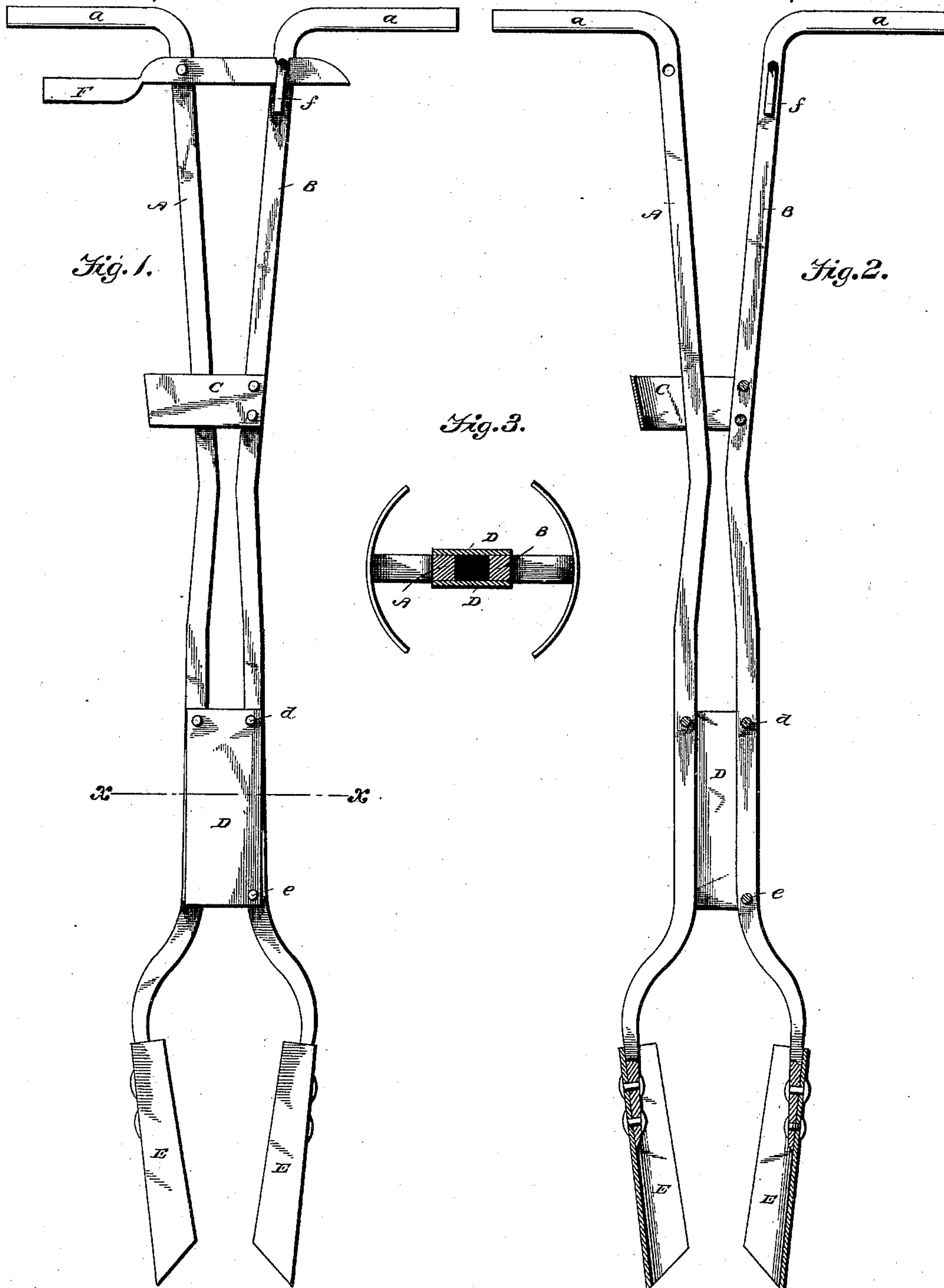
(No Model.)

W. W. & G. F. NIVISON.

POST HOLE MACHINE.

No. 397,383.

Patented Feb. 5, 1889.



Witnesses:

D. E. Durpin
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Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM W. NIVISON AND GEORGE F. NIVISON, OF LESTER, MICHIGAN.

POST-HOLE MACHINE.

SPECIFICATION forming part of Letters Patent No. 397,383, dated February 5, 1889.

Application filed September 3, 1888. Serial No. 284,443. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM W. NIVISON and GEORGE F. NIVISON, citizens of the United States, residing at Lester, in the county of Branch and State of Michigan, have invented certain new and useful Improvements in Post-Hole Machines; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to improvements in post-hole diggers; and it consists, essentially, of two bars of angular form pivotally connected together by means of a long plate, or two plates secured parallel to the said bars and on opposite sides thereof, so that one of the bars may move with respect to the plates, while the other one moves therewith, a loop secured to one of the bars above angular points thereon, auger-pods secured to the lower ends of the bars or levers, a pivoted gravitating latch having a notch, and a stud on one of the levers to engage the said notch, as will be hereinafter set forth, and particularly pointed out in the claim appended.

Before describing the details of construction we desire to say that we are well aware that it is not new to provide a post-hole digger composed of two angular levers pivoted together and each carrying a stop, and to employ a pivoted gravitating latch for locking the levers in an operative position.

We are also aware of the patent granted to J. J. Armstrong, November 21, 1882, in which a post-hole digger is shown as composed of two bent bars preferably formed from wood, and provided with spade-blades, so that they may be used separately as spades, or in combination as a post-hole digger; but in such device the levers are connected together by blades which project sufficiently from the levers to form cutters.

In the accompanying drawings, Figure 1 is a side elevation of a post-hole-boring machine constructed according to our invention. Fig. 2 is a longitudinal sectional view of the same, and Fig. 3 is a transverse sectional view taken on the line $x x$ of Fig. 1.

Referring by letter to the said drawings,

A B indicate two levers, which are of a form substantially as shown, having their upper ends bent laterally to form handles a , from which point to the point b they are approximately straight, and from the latter point for the portion of their length are bent at an obtuse angle laterally.

C indicates a broad flat loop, which has its ends secured to the lever B, and receives through it the lever A, so that the same may move freely therein.

D D indicate two elongated plates, which are of a rectangular form. These plates are pivoted at their upper corners to the levers A and B, respectively, as shown at d , and the lever B is secured to the lower contiguous corners of the said plate, as shown at e .

It should be here observed that the levers are not directly pivoted together, but that the plates D connect them. It should also be observed that these plates are very long, and that they extend down the sides of the levers connecting them, and will prevent any torsional strain during operation. We attach importance to the employment of these plates and to the fact that the levers are not pivoted together.

E indicates the pods or blades, which may be of any suitable construction, and are secured to the lower outwardly-curved ends of the levers A B.

F indicates a gravitating latch, which is pivoted to the lever A, adjacent to the handles, and is provided with a notch near its opposite end, as shown, to engage a stud, f , on the lever B. It will be seen that this latch by its gravity will normally bear against the said stud F and lock therewith, when, by simply lifting its outer or weighted end, the same will be disengaged from the said stud and the levers and pods free to move.

Having described our invention, what we claim is—

The improved post-hole digger herein described, consisting, essentially, of the two angular levers A B, having their upper ends bent laterally to form handles, and their lower ends curved outwardly and inwardly to receive pods, the loop C, secured to one of the levers and receiving through it the other lever, the long plates D, pivoted at their upper cor-

ners to the respective levers, and also pivoted
at their lower corners to the lever B only,
whereby stability will be rendered in the op-
eration, the pivoted gravitating lever F, hav-
5 ing a notch, as shown, and the stud on the
lever B, adapted to receive the said notch,
substantially as specified.

In testimony whereof we affix our signatures
in presence of two witnesses.

WILLIAM W. NIVISON.
GEORGE F. NIVISON.

Witnesses:

T. J. NIXON,
M. O. NIVISON.