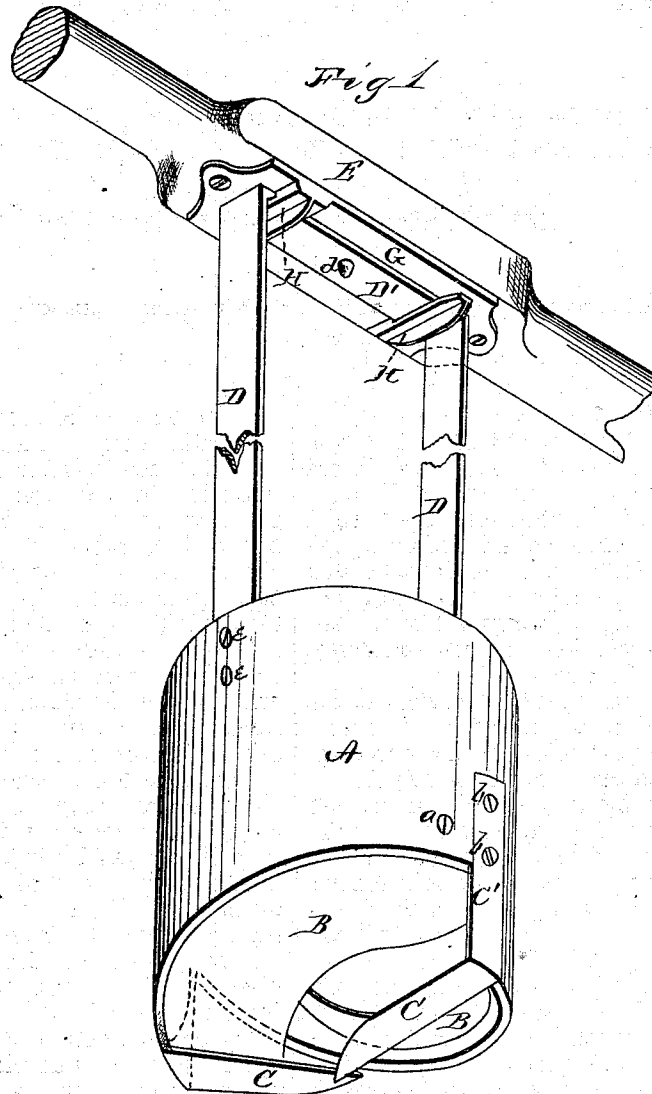


M. HITCHINGS & W. EYNON.
Earth-Augers.

No. 158,276.

Patented Dec. 29, 1874.



Witnesses,
A. L. Curand
C. L. Evert.

Inventor
Mark Hitchings,
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per Alexander Watson
Attorney

UNITED STATES PATENT OFFICE.

MARK HITCHINGS AND WILLIAM EYNON, OF HYDE PARK, PA.; SAID
HITCHINGS ASSIGNOR TO WILLIAM TEAGUE, OF SAME PLACE.

IMPROVEMENT IN EARTH-AUGERS.

Specification forming part of Letters Patent No. **158,276**, dated December 29, 1874; application filed
April 10, 1874.

To all whom it may concern :

Be it known that we, MARK HITCHINGS and WILLIAM EYNON, of Hyde Park, in the county of Luzerne and in the State of Pennsylvania, have invented certain new and useful Improvements in Earth-Augers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of an earth-auger for boring post-holes or other purposes, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which the drawing represents a perspective view of our auger.

A represents the barrel or cylinder of our earth-auger, the lower end of which is provided with two beveled cuts, as shown, to allow the earth to enter upon the worm-wings B B. C C are knives attached to the lower end of the cylinder A. The shank for connecting the auger with its handle is formed of a single strap or bar of metal bent so as to make two parallel arms, D D, with a cross-bar, D', connecting their upper ends. E represents the handle of our auger, to which is attached a plate, G, having a pin or point, *d*, to enter a hole in the center of the cross-bar D'. On the face of the plate E, a suitable distance

on each side of the center-pin *d*, is formed or secured a hook, H, made flat, as shown, and such distance from the plate G that they will just allow the cross-bar D' of the shank to enter between them and the plate G. These hooks are further so arranged that by turning the handle E to the right, the usual way of turning for boring, they will engage with the cross-bar D' of the shank, and by turning the handle to the left the hooks will disengage themselves from the shank. The ends of the arms D D of the shank are let into the inner surface of the barrel or cylinder A and fastened by means of screws or bolts, *ee*.

We are aware that an earth-auger cylinder having worm-wings upon its bottom, which are cast or otherwise made with and a part of the cylinder—said cylinder being also provided with cutting-knives, which are used with said worm-wings—is not new, hence we disclaim such as being our invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the shank D D', handle E, and plate G, with pin *d*, and hooks H H, all constructed substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 5th day of March, 1874.

MARK HITCHINGS.
WILLIAM EYNON.

Witnesses:

S. I. SIBBET,
C. D. VIRGIL.