

(No Model.)

N. D. TYLER.
EARTH AUGER.

No. 471,320.

Patented Mar. 22, 1892.

Fig. 1.

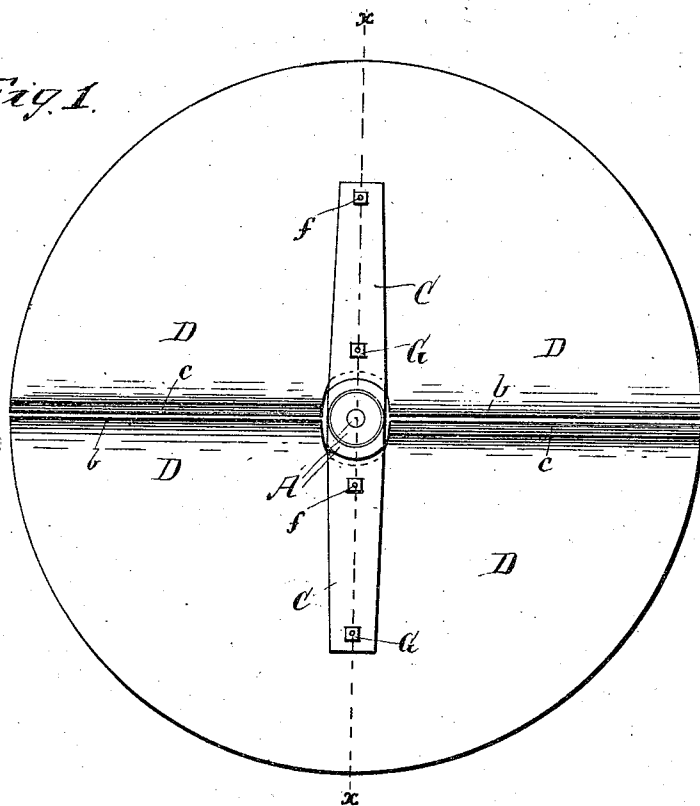
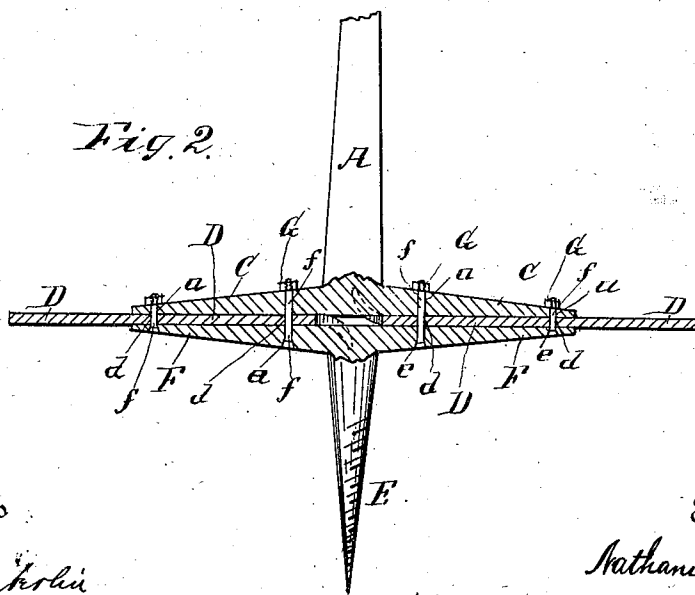


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

NATHANIEL D. TYLER, OF JERICO, KENTUCKY.

EARTH-AUGER.

SPECIFICATION forming part of Letters Patent No. 471,320, dated March 22, 1892.

Application filed September 9, 1891. Serial No. 405,212. (No model.)

To all whom it may concern:

Be it known that I, NATHANIEL D. TYLER, a citizen of the United States, residing at Jericho, in the county of Henry and State of Kentucky, have invented certain new and useful Improvements in Earth-Augers; and I do hereby 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 relates to augers, and particularly to the class of earth-augers.

The object of the invention is to provide an auger for boring post-holes with removable blades and to construct the point and stem separate from each other and from the blades, so that the blades can be secured between the said point and stem.

The invention consists in the novel construction and arrangement of parts, as will be hereinafter fully described and claimed.

Referring to the drawings, Figure 1 is a top plan view with the handle removed; and Fig. 2 is a section thereof, taken on the line $x x$, Fig. 1.

The same letters of reference denote the same parts throughout the figures.

The stem A is provided in the usual manner with a handle at its upper end, and at its lower end is formed in the same piece therewith arms C, projecting at right angles from the stem A and having bolt-holes a .

D represents a pair of semicircular blades having one half of their cutting edge b turned in one direction and the other half c curved or turned in the opposite direction, each plate or blade having two or more apertures d .

The auger-point E has the usual lower screw portion, while upon its upper portion is formed in the same piece therewith right-angle arms F, having bolt-holes e , which when the blades D are in position to be secured between the arms C and the arms F register with the apertures d and the holes a , so as to receive the connecting-bolts f , which are provided with suitable nuts G to hold the said parts firmly together. By thus constructing the auger-point T-shaped in one piece a stronger and more durable part of the auger is produced just where the greater strain occurs.

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

1. In an earth-auger, the combination of the stem and the arms C, constructed in one piece, and the point and the arms F, also constructed in one piece, with the blades D, having their cutting-edges curved in an opposite direction from each other, substantially as and for the purpose set forth.

2. In an earth-auger, the combination of the stem A, having right-angle arms, the point E, also having right-angle arms, with the blades D, and means for securing the said parts together, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

NATHANIEL D. TYLER.

Witnesses:

R. W. TURNER,
S. BRUCE.