

(No Model.)

H. ZUBER.  
POST HOLE AUGER.

No. 509,994.

Patented Dec. 5, 1893.

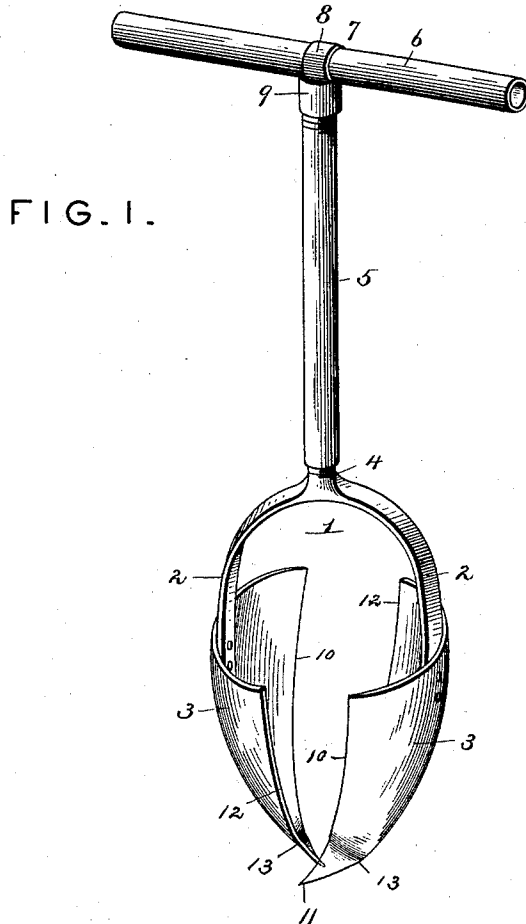


FIG. 1.

FIG. 2.

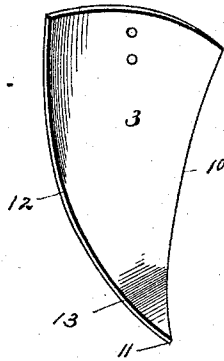


FIG. 3.

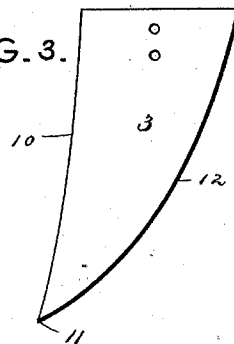
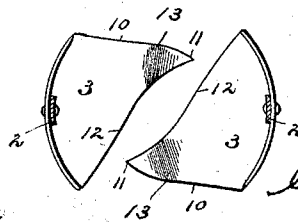


FIG. 4.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## POST-HOLE AUGER.

SPECIFICATION forming part of Letters Patent No. 509,994, dated December 5, 1893.

Application filed May 17, 1893. Serial No. 474,581. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY ZUBER, a citizen of the United States, residing at Hennessey, in the county of Kingfisher and Oklahoma Territory, have invented a new and useful Post-Hole Auger, of which the following is a specification.

My invention relates to improvements in post-hole augers, the objects in view being to provide a simple and readily operated device which may be employed for boring post-holes or for other analogous purposes; and to provide a device of the kind mentioned which will be to a certain extent self-feeding whereby the labor of driving the same is reduced to a minimum.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings—Figure 1 is a perspective view of a post-hole auger embodying my invention. Fig. 2 is a detail view in perspective of one of the blades. Fig. 3 is a view of the blank from which the blade is formed. Fig. 4 is a plan view of the blades.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a yoke to the arms 2 of which are secured the blades 3. The yoke is provided at its top with a threaded tang 4 upon which is fitted an interiorly threaded tubular shank 5 having a cross handle 6 secured to its upper end by means of a coupling 7, which consists of a ring 8 having a thimble 9 which is threaded upon the upper end of the shank. The shank 5 and handle 6 may be of gas pipe or any similar tubing. The blades 3 are precisely similar in construction and being secured to the oppositely-disposed arms 2 of the yoke they are necessarily reversed in position, whereby the pointed lower ends of the blades are oppositely disposed and are arranged at corresponding distances from the axis of rotation of the auger. The blades are curved or dished in horizontal or transverse section whereby all of the points of such blades in the same horizontal plane are equi-distant from the axis of rotation of the auger. The front edge 10 of each blade is concaved there-

by causing the point 11 of the blade to lie in front of the edge of the main body of the blade, and the rear edge 12 of each blade is convexed to intersect such front edge at an acute angle and thus form a sharp feeding point. Furthermore, the blades converge toward their lower ends or points and are abruptly curved adjacent to their lower extremities, as shown at 13, to throw the points 11 of each blade under the convexed rear edge of the other blade.

The advantages derived from this peculiar construction of the blades will be apparent to those skilled in the art without a specific explanation herein, but briefly stated, the same consists in the ease with which the auger can be fed downwardly during operation by reason of the fact that the points are presented endwise or in the direction of their length and therefore enter the soil with greater facility and without lateral pressure.

Having described my invention, what I claim is—

1. In a post-hole auger, the combination with suitable supporting-arms, of oppositely-disposed twin blades transversely concaved to lie at all points equi-distant from the axis of rotation of the auger, having concaved front edges and convexed rear edges, the front and rear edges of each blade intersecting each other in an acute angle in advance of the front edge to form a sharp feeding point, substantially as specified.

2. In a post-hole auger, the combination with a suitable support, of the oppositely-disposed twin blades curved or dished in cross-section, converging toward their lower ends, and having convexed rear edges and concaved front edges, the front and rear edges of each blade intersecting in an acute angle in advance of the front edge, and the lower extremities or points of the blades being inwardly bent, whereby each point lies under the convexed rear edge of the other blade, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HENRY ZUBER.

Witnesses:

N. V. BOYCE,  
J. E. SHEET.