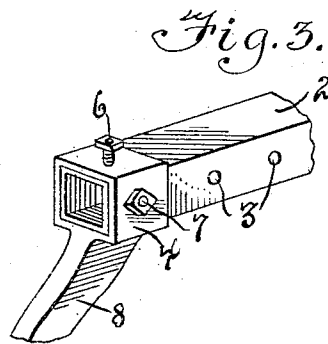
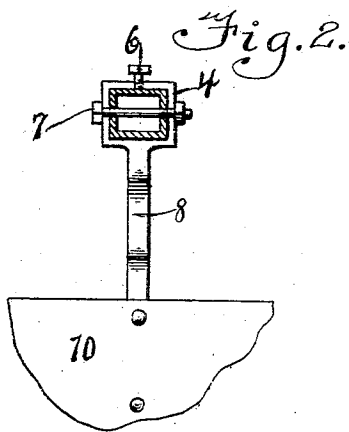
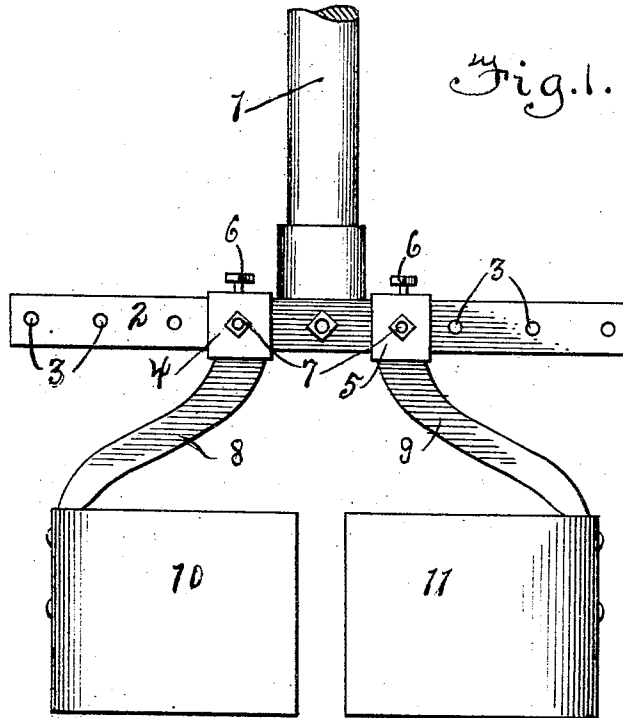


O. H. NAVILLE.
POST HOLE DIGGER.
APPLICATION FILED DEC. 23, 1910.

1,052,506.

Patented Feb. 11, 1913.



WITNESSES

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OSCAR H. NAVILLE, OF AMBIA, INDIANA.

POST-HOLE DIGGER.

1,052,506.

Specification of Letters Patent.

Patented Feb. 11, 1913.

Application filed December 23, 1910. Serial No. 598,950.

To all whom it may concern:

Be it known that I, OSCAR H. NAVILLE, a citizen of the United States, residing at Ambia, in the county of Benton and State of Indiana, have invented new and useful Improvements in Post-Hole Diggers, of which the following is a specification.

My invention relates to improvements in post hole diggers, and more particularly to a construction whereby the size of the hole excavated may be varied at will by adjusting the relative positions of the jaws of the digger.

Heretofore much inconvenience has been caused by the fact that to dig post holes of different sizes diggers of various sizes had to be employed. This is particularly the case with that type of digger in which semi-circular opposed blades or jaws are used.

It is an object of my invention to overcome this difficulty by providing a digger or auger which has such blades so arranged as to be adjustable toward or away from each other whereby the size of the hole dug may be varied at the will of the operator.

Another object of my invention is to provide such a digger as the above which shall be simple in construction and strong and durable in use, but at the same time cheap to manufacture.

With the foregoing and other objects in view my invention consists of such details of construction and in the arrangement and combination of parts as will be hereinafter more fully described and specifically pointed out in the appended claims.

In describing my invention in detail reference will be had to the accompanying drawings, in which like characters denote like or corresponding parts throughout the several views, and in which,

Figure 1 is a view in side elevation of my invention. Fig. 2 is a detail sectional view, and Fig. 3 is a detail view in perspective, showing how the jaw arms are mounted upon the cross bar.

In carrying my invention into practice I provide the usual stem 1 to which the handle (not shown) is connected. Mounted upon the lower end of the stem is a cross-bar 2, which may be made of tubular metal as shown, out of a solid bar of wood, or any other suitable material. This bar has perforations 3 passing laterally therethrough, which perforations are spaced apart at any given distances and are of such number as

to permit a wide range of adjustment of the digger blades or jaws as will be hereinafter more fully seen.

Mounted so as to slide upon the cross bar 2 are collars 4 and 5, one collar being upon each side of the stem 1. Set screws 6 are operative through said collars and are adapted to engage the top of the bar 2 so as to hold said collars in any desired position upon said bar. The collars, also, are formed with perforations, which perforations are registerable with any or all of the perforations in the aforementioned bar so as to permit bolts 7, or any other suitable fastening device, to be passed through said collars and said bar, whereby said collars may be rigidly fastened or adjusted in any position. Extending downwardly and outwardly from said collars 4 and 5 are arms 8 and 9 respectively which carry blades or jaws 10 and 11 of usual construction.

The operation of my improved digger will be readily apparent from the above description.

It will be seen that the collars 4 and 5 may be moved backward and forward upon the bar 2 thus relatively changing the positions of the blades and, consequently, the size of the hole made. Any number of combinations may be made so as to vary the size of the hole. It will also be seen that the sizes of the various parts may be changed to suit different conditions, and that, for instance, the bar 2 may be made long or short as may be desired, provided of course that the length of the bar does not exceed the diameter of the smallest hole which it is desired to form with a given sized instrument.

I desire it to be understood that slight changes in the construction and in the arrangement and combination of parts may be resorted to without departing from the spirit of my invention, provided such changes fall within the scope of the appended claims.

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

1. In a post hole digger, a stem, a cross bar connected to one end thereof, said cross bar provided with perforations, collars slidable on said cross bar, means carried by said collars and engaging the top of said cross bar to control the movement of said collars, means carried by said collars and extending through said perforations in said

cross bar and also adapted to control the movement of said collars and cutting blades attached to said collars.

2. In a post hole digger, a stem, a cross
5 bar secured to the lower end of said stem, said cross bar provided with a plurality of openings, collars slidably mounted upon said cross bar, said collars provided with
10 openings at their sides and tops, means extending through said openings adapted to engage said cross bar, arms formed integral with said collars adapted to extend downwardly and outwardly, and cutting blades
15 connected to said arms.

3. In a device of the character described, a stem having a cross bar secured thereto, said cross bar provided with openings ex-

tending laterally therethrough, collars slidably mounted upon said cross bar, said collars provided with openings at their sides 20 and tops, arms formed integral with said collars adapted to extend downwardly and have connection with cutting blades, pins adapted to extend through the sides of said collars, and through said cross bar, and set- 25 screws adapted to operate through the upper portions of said collars and engage the upper portion of said cross bar for the purpose described.

OSCAR H. NAVILLE.

Witnesses:

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