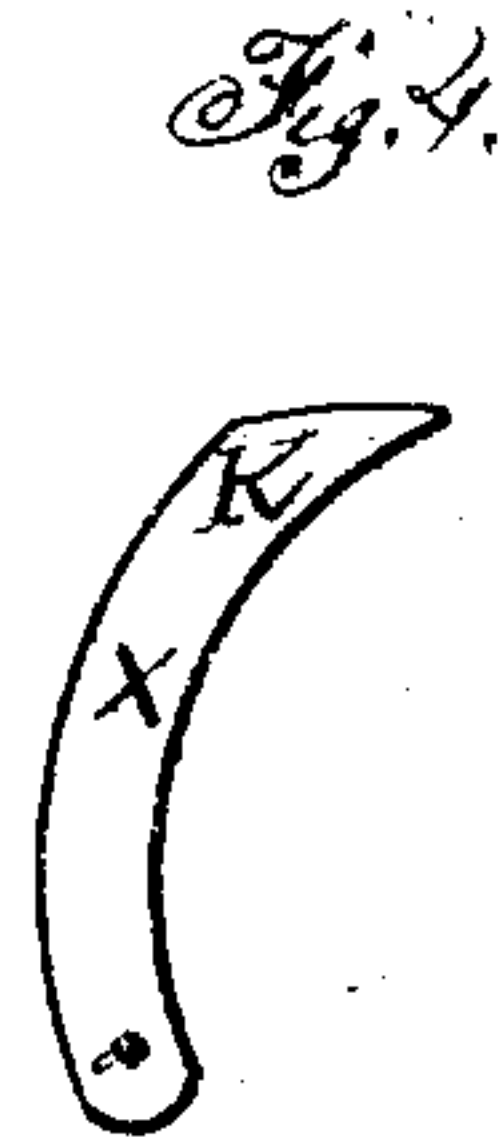
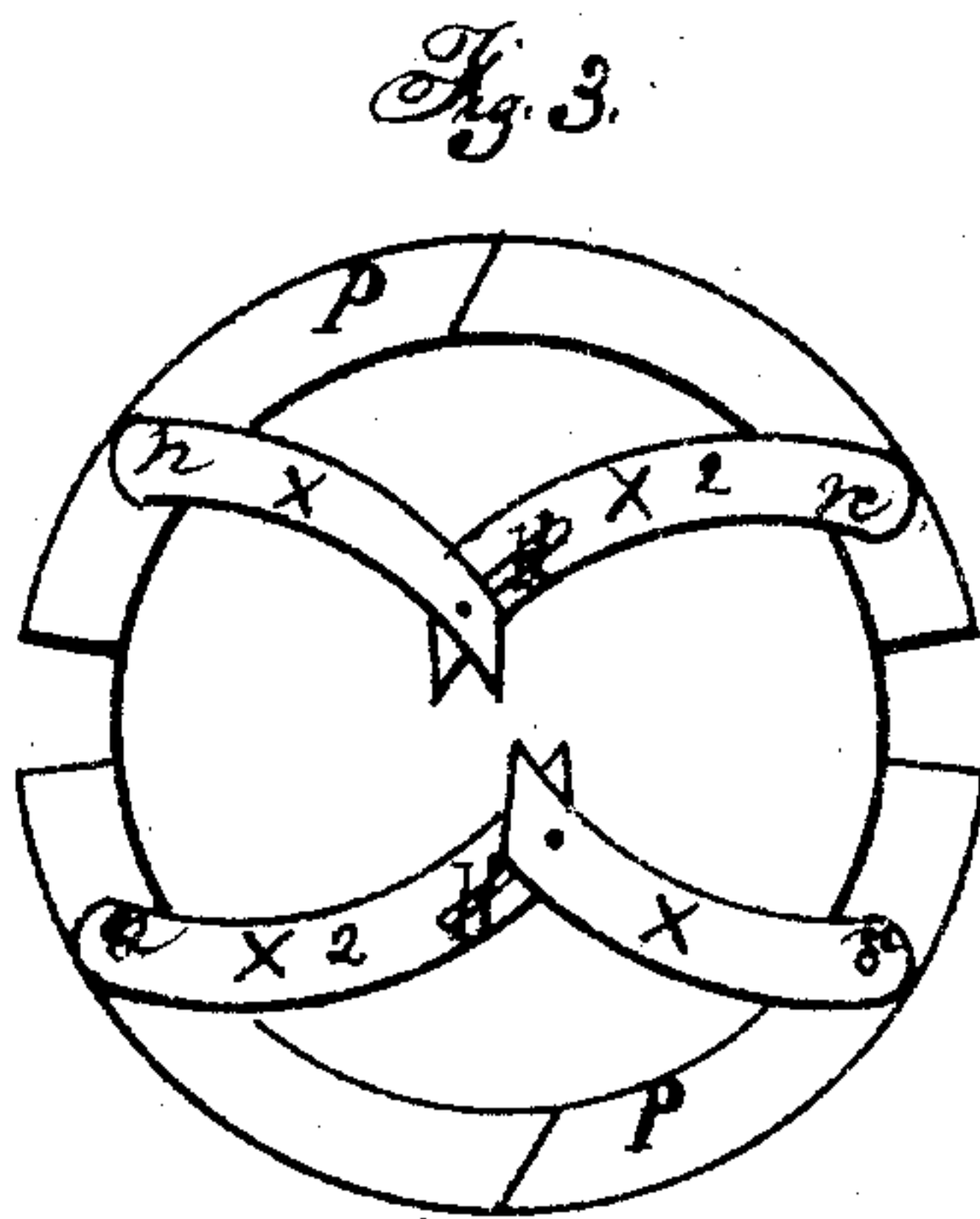
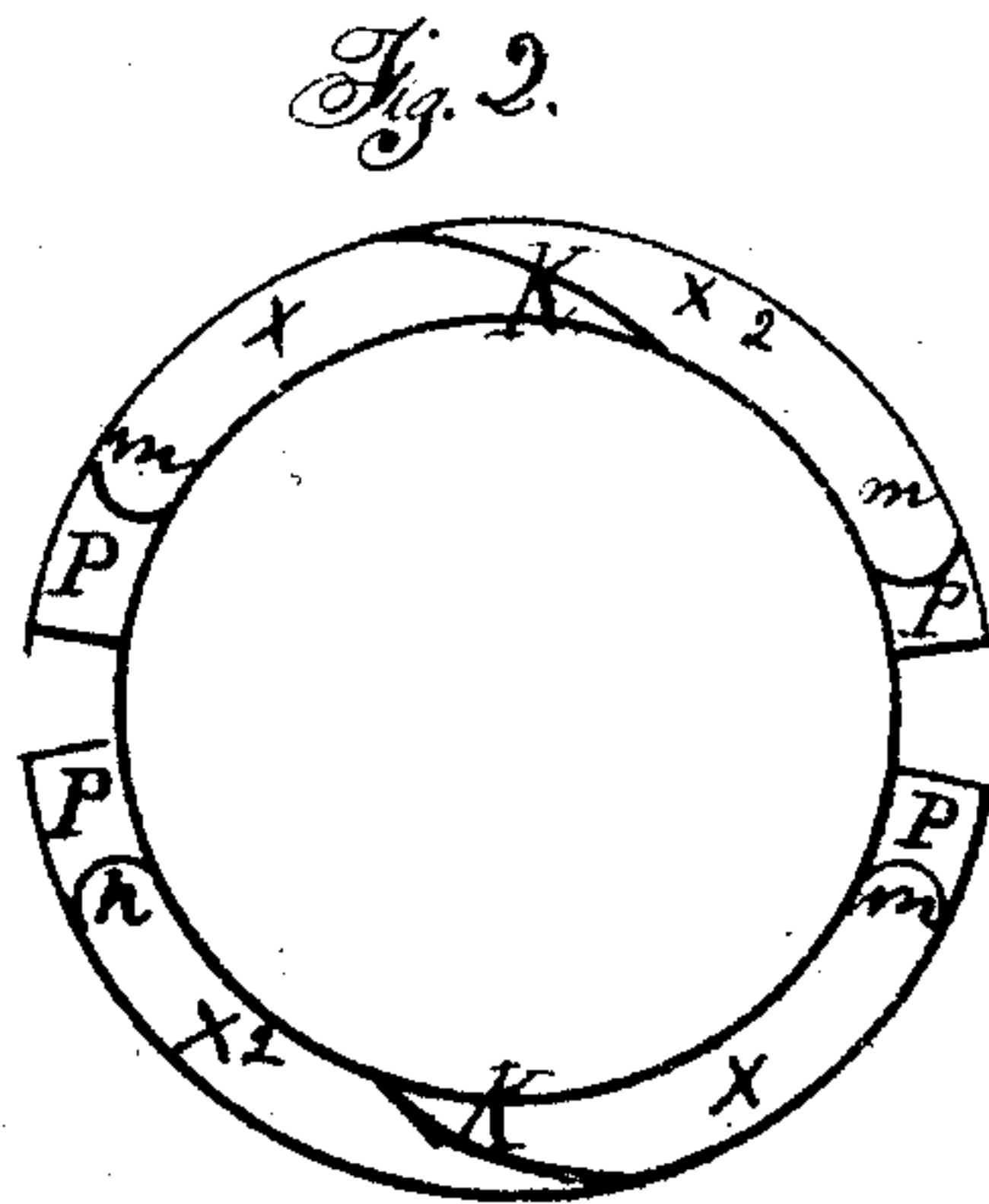
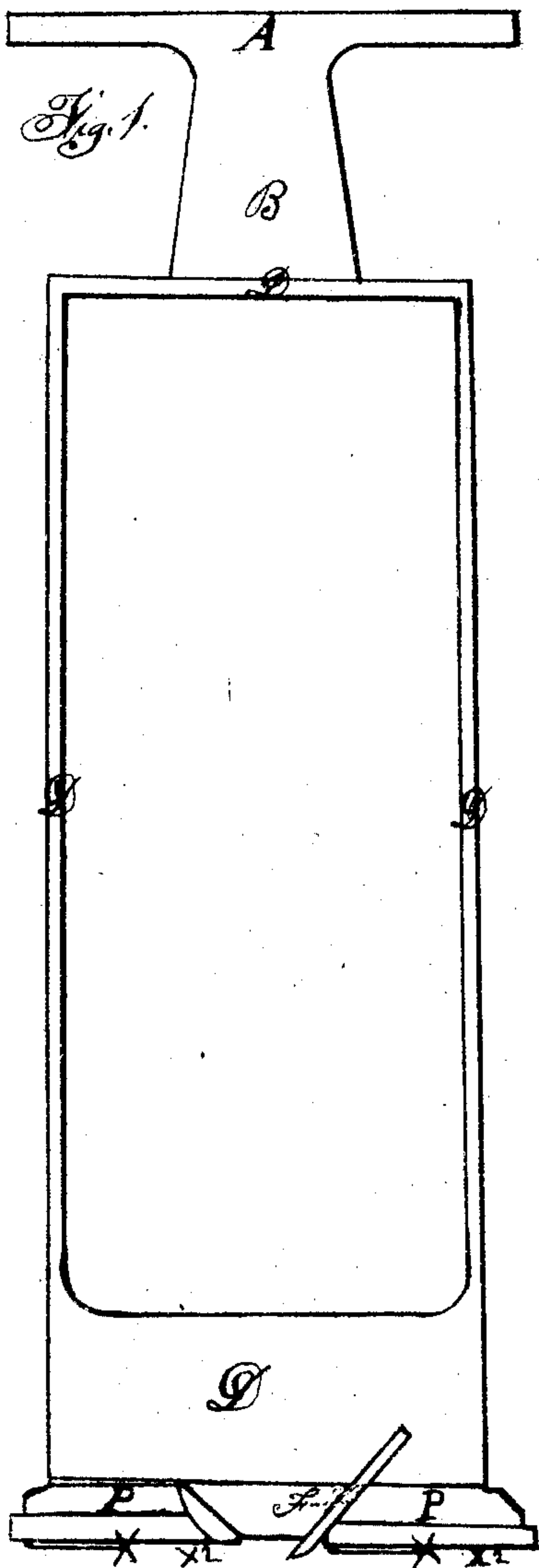


S. H. Yocum.

Post-Hole Hollow Auger.

N<sup>o</sup> 76132

Patented Mar. 31, 1868.



Witnesses  
Thomas C. Brackets  
Jacob A. Young

Inventor  
Samuel H. Yocum

# United States Patent Office.

SAMUEL H. YOCUM, OF TIPTON, INDIANA, ASSIGNOR TO HIMSELF AND  
MARION E. CLARK, OF SAME PLACE.

*Letters Patent No. 76,132, dated March 31, 1868.*

## IMPROVEMENT IN POST-HOLE HOLLOW AUGERS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL H. YOCUM, of Tipton, in the county of Tipton, and State of Indiana, have invented certain new and useful Improvements in Hollow Augers, adapting them for excavating purposes, which I have described in the following specification and illustrated in the accompanying drawings with sufficient clearness to enable others of competent skill to make and use my invention.

My invention consists in the arrangement and combination of parts, hereinafter described, by which I adapt the hollow auger for excavating purposes by the arrangement of adjustable cutters on the bottom of a hollow auger, so that after boring in the earth any given depth, by reversing the motion of the auger, the core may be cut off, and supported in its place by the cutters while being lifted out, when, by a sudden turn forward, the cutters will adjust themselves to their places in the circle of the auger, leaving the lump of earth thus circumscribed free to pass out.

I construct my hollow auger in any of the known forms.

Figure 1, in the accompanying drawings, represents a hollow auger, D, with as small a portion extending up to the handle as is consistent with strength and durability, and to obviate friction in operating, rim P P is of sufficient thickness to attach bit F.

On the bottom of the rim P P, I attach my invention, consisting of adjustable cutters  $x x x^2 x^2$ , as shown at Figures 2, 3, 4, and 5, in the drawings. I attach adjustable cutters,  $x^2 x^2$ , by pivots  $n n$  at the rounded end, to rim P P, and are let in the bottom of rim P P the thickness of the cutters. Principal cutters,  $x x$ , are pivoted at the rounded ends by the pivots  $n n$  to rim P P, and extend over slots H H in cutters  $x^2 x^2$ . Pin K, as shown in Figure 6, is firmly fastened in principal cutters,  $x x$ , and extends through the slots H H in cutters  $x^2 x^2$ .

Having thus fully described my invention, the nature of its operation is as follows:

I take hold of handle A, attached to the top of shank B, then turn to the right, and bits F F will circumscribe a circle equal to the circumference of the auger D. Continue to turn until it cuts any desired depth. I then reverse the motion of the auger and adjustable cutters  $x x$  and  $x^2 x^2$ . By the pressure of the dirt on the cutters, they will be forced into the position as shown at fig. 3 in the drawings, thereby cutting off the core circumscribed by auger D, and while they are in the position as shown at fig. 3, I raise the auger out of the hole, and then, by a sudden motion of the auger to the right, together with the pressure of the core on the cutters  $x x x^2 x^2$ , they are caused to resume their position, as shown at fig. 2 in the drawings.

I do not claim the hollow auger D and bits F F, as it is an old and well-known device; but

What I do claim, and desire to secure by Letters Patent, is—

1. Principal cutters,  $x x$ , pivoted on rim P P by pivots  $n n$ , in combination with hollow auger D.
2. I claim cutters  $x^2 x^2$ , with slots H H, in combination with pin K in principal cutters  $x x$ , substantially as herein set forth and for the purposes specified.

SAMUEL H. YOCUM.

Witnesses:

THOMAS E. BRACKEN,

JACOB I. YOUNG.