

(No Model.)

A. SCHULTE.
EARTH AUGER BLADE.

No. 331,006.

Patented Nov. 24, 1885.

Fig. 1.

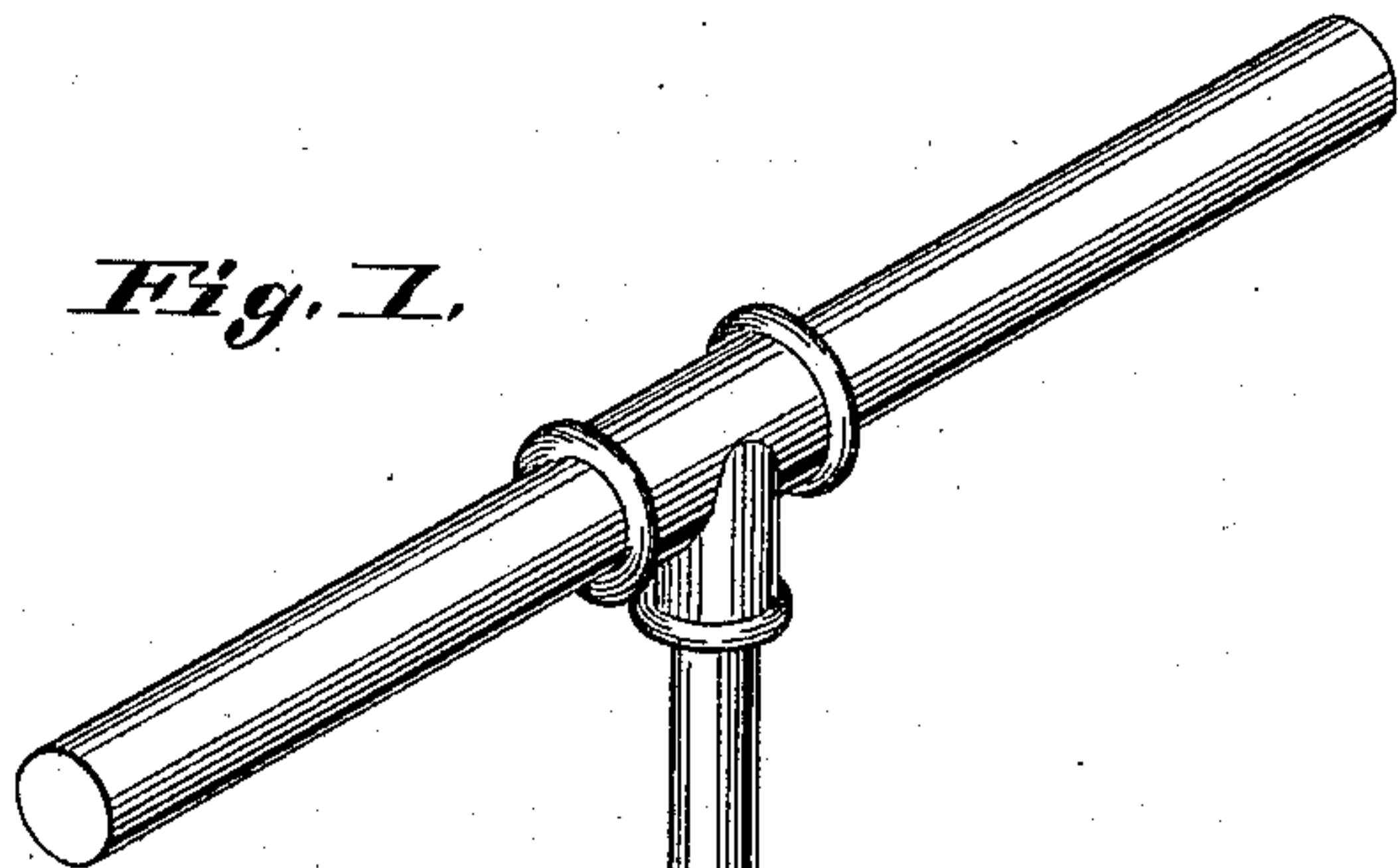


Fig. 2.

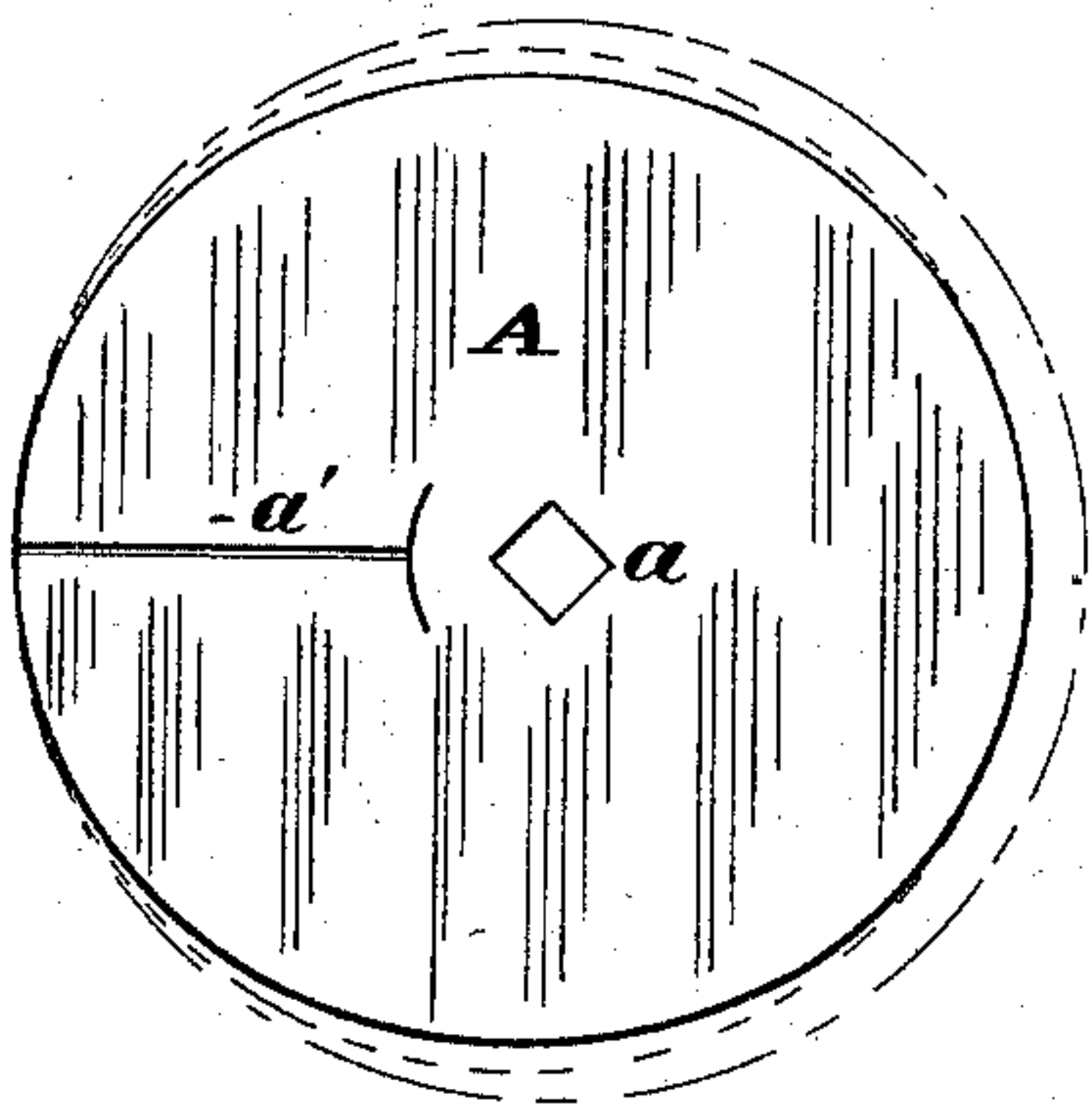
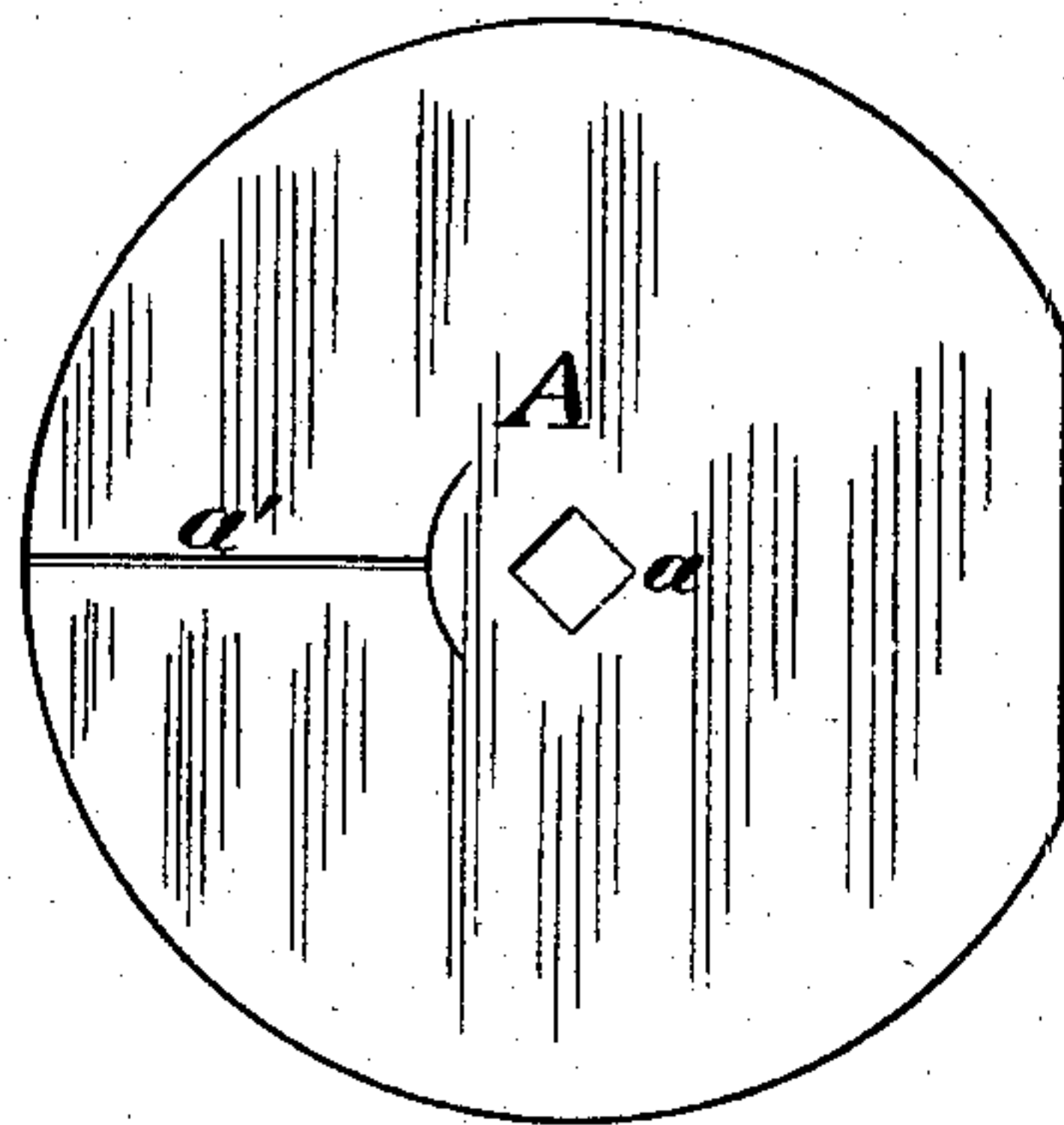


Fig. 3.



Attest;

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UNITED STATES PATENT OFFICE.

ANTHONY SCHULTE, OF ST. LOUIS, MISSOURI, ASSIGNOR TO JOSEPH W. BRAUCH, OF SAME PLACE.

EARTH-AUGER BLADE.

SPECIFICATION forming part of Letters Patent No. 331,006, dated November 24, 1885.

Application filed February 27, 1885. Serial No. 157,197. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY SCHULTE, of the city of St. Louis, State of Missouri, have made a certain new and useful Improvement in Earth-Auger Blades, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, in which—

Figure 1 is a perspective view of my improved blade as fastened to the shank of a post-hole auger; Fig. 2, plan of blade-disk; Fig. 3, plan of modification of blade-disk.

The object of my invention is to provide an earth-auger which shall be capable of boring into the earth with the least possible labor without danger of binding or slipping, which shall be capable of being easily guided in its course, and which may easily be removed from the hole when it is desired so to do.

I will now describe my invention so that others skilled in the art to which it appertains may manufacture and use the same.

In the drawings, A represents the auger-blade, which is formed of a single disk of metal in the usual manner, and is provided with an opening, *a*, whereby it is attached to its driving-shaft X. This opening *a* is preferably square or angular, so as to fit on a correspondingly-formed neck on the shaft, and it is situate, as shown in the drawings, out of the center of the disk, which disk is circular in form, or nearly so.

The purpose of placing the opening *a* out of the center of the disk A is to enable the auger to bore a hole greater in diameter than the diameter of the disk, the circumferential edge of the cutting-blade traveling in an eccentric course. This cutting-blade *a'* is formed on the disk by a slot in the disk extending diametrically from the circumference toward the center and the opening *a*, one edge of the disk along the slot being bent or curved downward to form the cutting-edge, and the other edge being bent or curved upward, so as to

form an opening for the passage of the earth, said opening being of an equal width throughout its length, straight, and occupying a radial position. The purpose of this is to enable or allow the auger to cut easily through the earth, following an even course, and to obviate the tendency of the auger to travel horizontally, which would exist were the auger cutting-blade of an unequal width and the shaft situate out of the center of the disk.

In Fig. 3 a modification is shown in which a portion of the disk A is cut away. I prefer, however, the forms shown in Figs. 1 and 2.

I am aware that it is not new to place the shaft out of the center of a cutter-disk, and I do not desire to claim the same, broadly. The advantages of my invention are, however, that, owing to the position of the shaft, the cutter-blade forms a larger opening than the diameter of the disk, and therefore the auger is easily removed, while at the same time, owing to the equal or nearly equal width of the blade, the resistance is equally distributed, instead of the greatest resistance being at the circumference and sufficient to throw the auger out of its course.

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

In an earth-auger, the combination of a single plate or disk, A, formed of metal, a shaft, *x*, secured to the disk, situate eccentrically thereon, and a cutter, *a'*, having an upper and lower lip curving in opposite directions, the edges of which are parallel with each other, situate on the same vertical plane and on a line radial to the axis of the shaft, substantially as and for the purposes specified.

In testimony whereof I have affixed my signature, in presence of two witnesses, this 24th day of February, 1885.

ANTHONY SCHULTE.

Witnesses:

PAUL BAKEWELL,
FERNANDO SAUTER.