

Z. S. Graefer,

Fast Auger.

No. 95,506.

Patented Oct. 5. 1869.

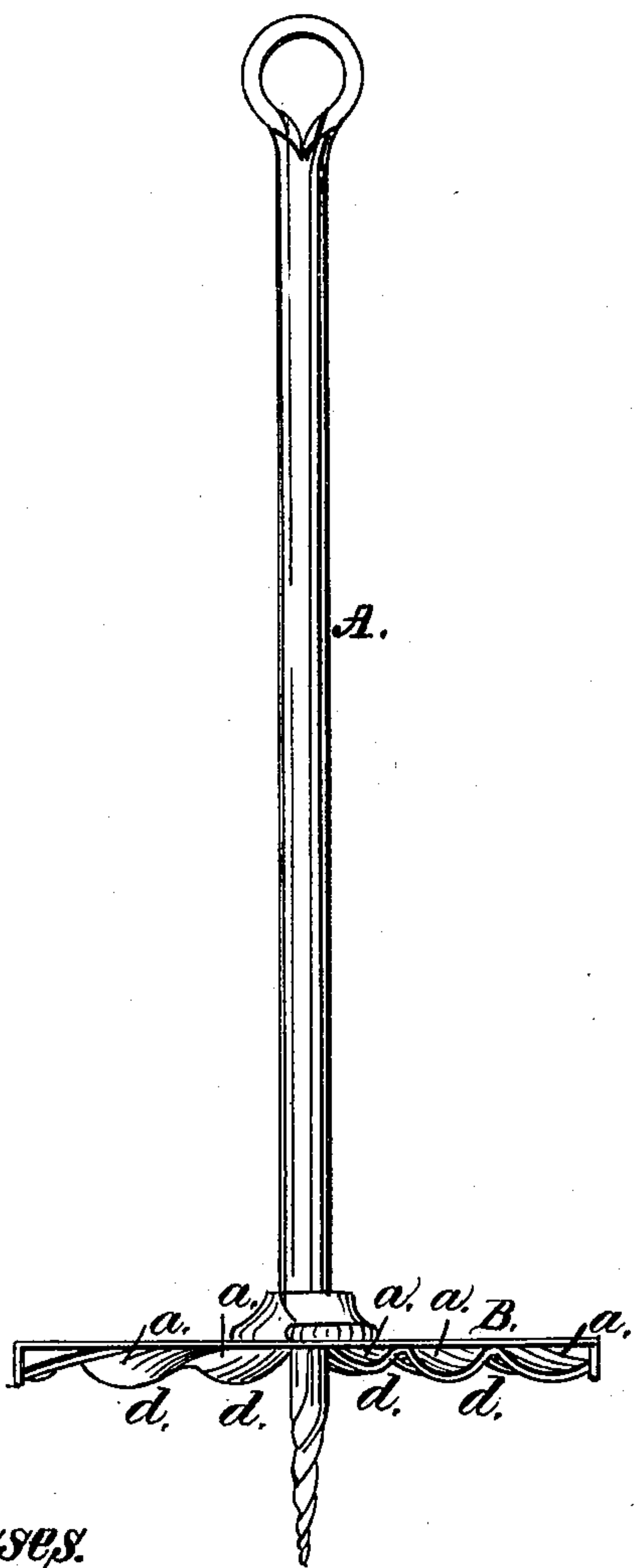
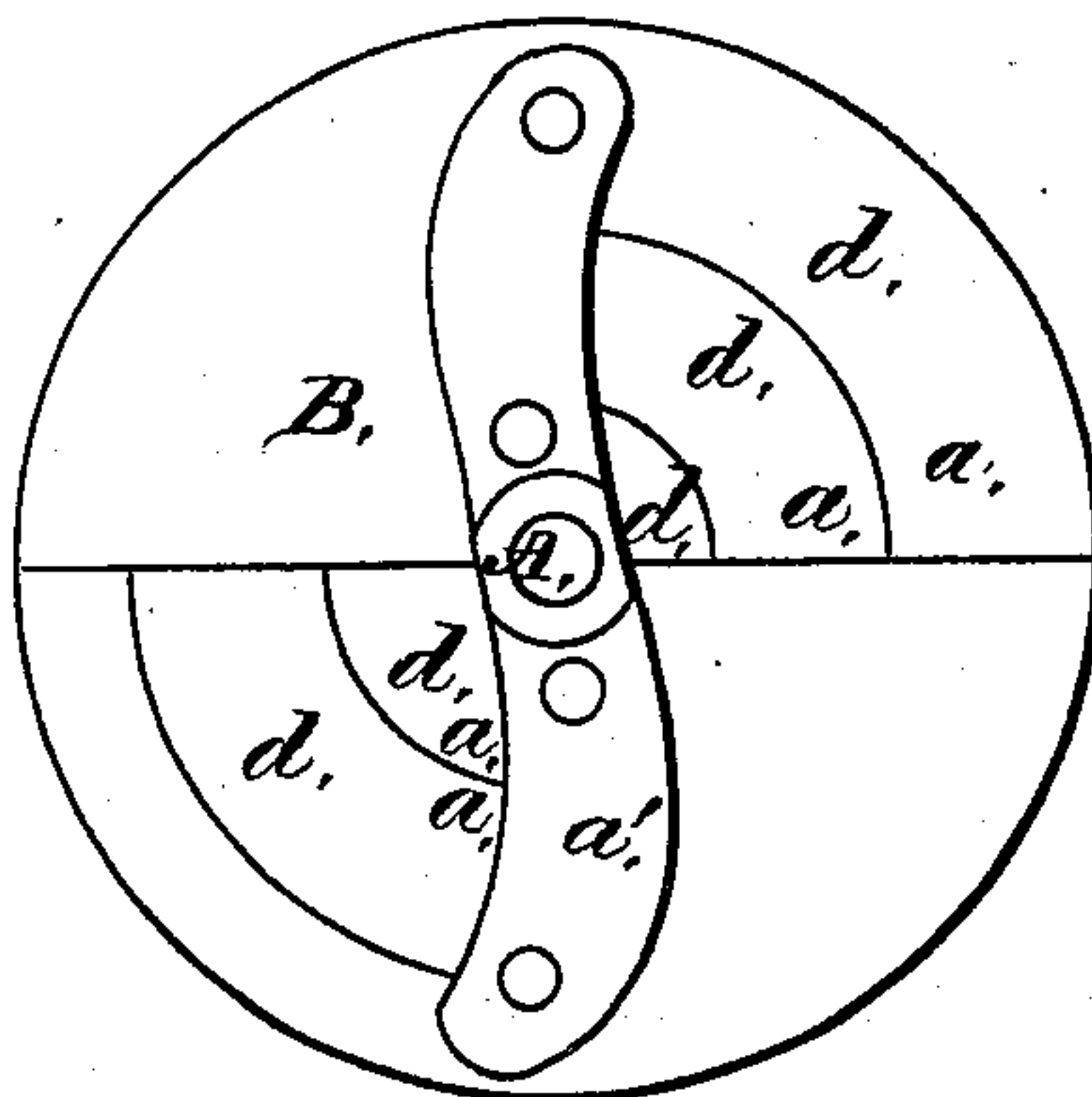


Fig. 2.



Inventor.

Z. S. Graefer

by J. H. Alexander
Atty.

Witnesses.

John A. Ellis,

A. S. Munn,

United States Patent Office.

Z. S. CRACRAFT, OF LACON, ILLINOIS.

Letters Patent No. 95,566, dated October 5, 1869.

IMPROVEMENT IN POST-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, Z. S. CRACRAFT, of Lacon, in the county of Marshall, and State of Illinois, have invented certain new and useful Improvements in Post-Augers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents a longitudinal section;

Figure 2, a side view; and

Figure 3, a plan view of my post-auger.

Similar letters indicate like parts in all the figures.

My invention relates to improvements in post-augers; and to this end,

It consists in the employment of a circular metal plate, divided from the centre outward into two equal parts, each of the said parts being formed, at their inner side, into a series of cutting-edges, the said edges being arranged so that the smooth edge of one division of the plate will be opposite to the cutting-edge of the other.

It also consists in furnishing each plate, at its circumference, with a vertical knife, all of which will hereinafter be fully set forth.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now describe its construction and operation.

In the accompanying drawing—

A represents the stem or handle of the auger, made at its lower end with a gimlet, as seen in fig. 1.

On the handle is secured the circular metal plate B, to the upper side of which is attached a stronger piece of metal, *a'*, through a hole, in the centre of which is made a female screw, to receive a male screw formed on the stem A, a little above the gimlet-point.

The plate B is divided into two equal parts from its centre outward, forming a series of cutting circular edges, *a a a*.

It will be observed that these cutting-edges are so placed that the smooth edge will be opposite to the cutting-edge in each plate. By this arrangement a perfect boring-auger is obtained.

d d represent knives, placed on the circumference of the plate B, as seen in fig. 3.

Having thus described my invention,

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

The plate B, constructed as described, in combination with the stem A, substantially in the manner and for the purpose described.

In testimony that I claim the foregoing as my own, I affix my signature, in presence of two witnesses.

Z. S. CRACRAFT.

Witnesses:

S. J. McFADDIN,

E. D. KALDENBAUGH.