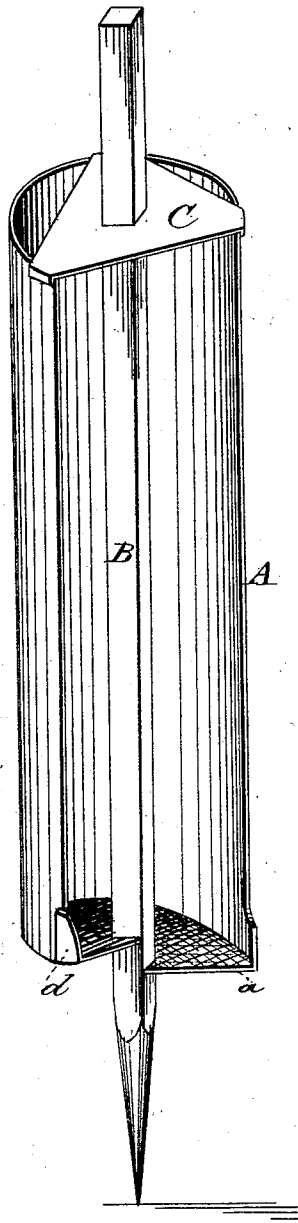


D. A. HANKS.
Earth-Augers.

No. 153,484.

Patented July 28, 1874.



Witnesses:

John Barry
Stephen Falls

Inventor:

D. A. Hanks.

UNITED STATES PATENT OFFICE

DAVID A. HANKS, OF MARQUETTE COUNTY, WISCONSIN.

IMPROVEMENT IN EARTH-AUGERS.

Specification forming part of Letters Patent No. **153,484**, dated July 28, 1874; application filed April 6, 1874.

To all whom it may concern:

Be it known that I, DAVID A. HANKS, in the county of Marquette and State of Wisconsin, have invented a new and useful Improvement in Well and Post Augers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

I construct the pod of my auger the same as many others, and apply thereto a shaft, B, through the center of said pod retained above by plate C, and extending below far enough to act as a guide, keeping the auger in place while it does its work. I also attach the bottom in a different way from others. The bottom is made of steel with ears, which are turned up and fastened to the pod by rivets. One of the ears, being at right angles with the

cutting-lip, does the upright cutting. The cutting-lip *d* extends beyond the circle of the pod, making the auger cut a larger hole than itself, preventing friction, and allowing the auger to come up through the tubing that will follow the hole.

Now, what I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the pod A, shaft B, plate C, and bottom plate, attached by ears, and provided with cutting-lips *a* and *d*, the latter lip extending beyond the circumference of the pod, all substantially as set forth.

D. A. HANKS.

In presence of—

JOHN BARRY,
STEPHEN FALLIS.