

X. EARLE.

Improvement in Earth-Augers.

No. 126,941.

Patented May 21, 1872.

Fig. 1.

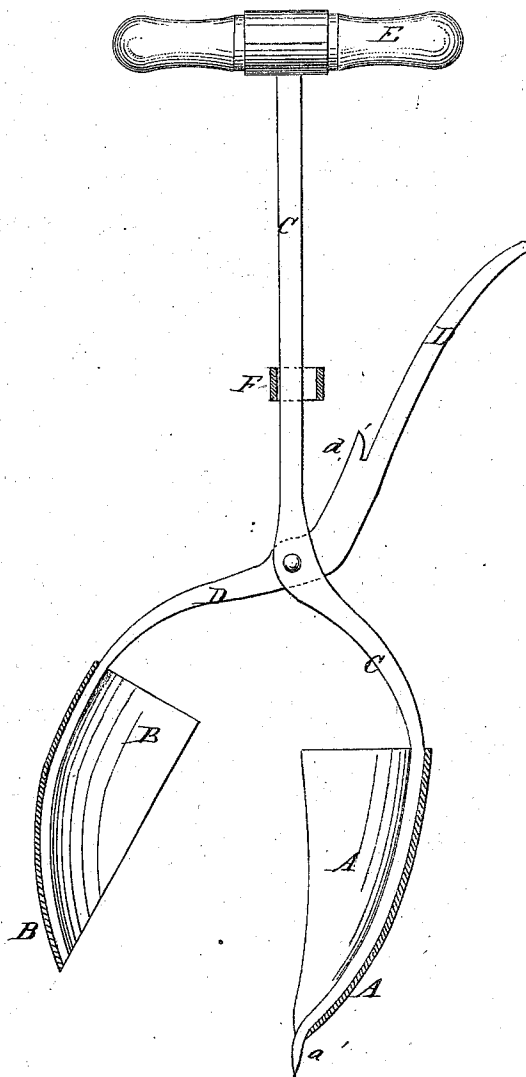
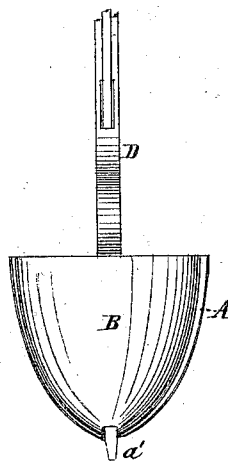


Fig. 2.



Witnesses:

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XENOPHON EARLE, OF DEPERE, WISCONSIN.

IMPROVEMENT IN EARTH-AUGERS.

Specification forming part of Letters Patent No. 126,941, dated May 21, 1872.

Specification describing a new and Improved Earth-Auger, invented by XENOPHON EARLE, of Depere, in the county of Brown and State of Wisconsin.

Figure 1 is a side view of my improved auger, part of the scoops being cut away to show the construction. Fig. 2 is a side elevation of the same.

My invention has for its object to furnish an improved auger for boring post-holes, wells, &c., which shall be simple in construction, inexpensive in manufacture, convenient in use, and effective in operation, being so constructed that it will work its way into the ground rapidly and easily, and will not stick, but may be easily raised and drawn out and emptied; and it consists in the construction and combination of the various parts as hereinafter more fully described.

A and B are the scoops, which are made somewhat in the shape of semi-cones, as shown in the drawing. The scoops A B are so formed that one edge of each of said parts A B projects beyond the corresponding edge of the other part, to serve as a wing to dig into the earth, and to form an opening for the dirt to pass into the space between the said parts A B. Upon the lower end or apex of one of the scoops A B, as A, is formed a point or prong, *a'*, to enter the ground and open a way for the scoops A B to follow. The scoops A B are attached to the lower ends of the arms or bars C D, which are bent inward and are pivoted to each other. One of the bars C D, as C, projects upward further than the other, and has a cross-bar or lever, E, attached to it, to serve

as a lever in operating the auger. Upon the inner edge of the other bar, as D, is formed a prong or finger, *d'*, upon which, when the scoops A B are brought together in a working position, is slipped a rim, F, that slides up and down upon the upper part of the bar C, as shown in the figure. The upper part of the bar D projects upward to serve as a handle in closing the scoops.

By this construction the auger can be readily and quickly forced into the ground, and when filled and being drawn from the hole it will not stick, but can be drawn out easily, the dirt dug out by the auger being carried inward and packed into the cavity or space between the scoops, instead of being packed around the outer part of the bore or hole.

When the auger has been raised, by simply sliding the ring or sleeve upward the bar D will be released and the weight of the dirt in the space between the scoops A B will spread them apart, allowing the dirt to drop to the ground. The bar D is then drawn toward the bar C, the ring F slipped down upon the arm *d'*, and the auger is again ready for use.

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

An improved earth-auger, formed by the combination of a handle, E, the scoops A B, point *a'*, bars C D, and a fastening device for the same, substantially as described.

XENOPHON EARLE.

Witnesses:

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