O. RUST.

Earth-Auger.

No. 166,303. Patented Aug. 3, 1875.

Fig: 1.

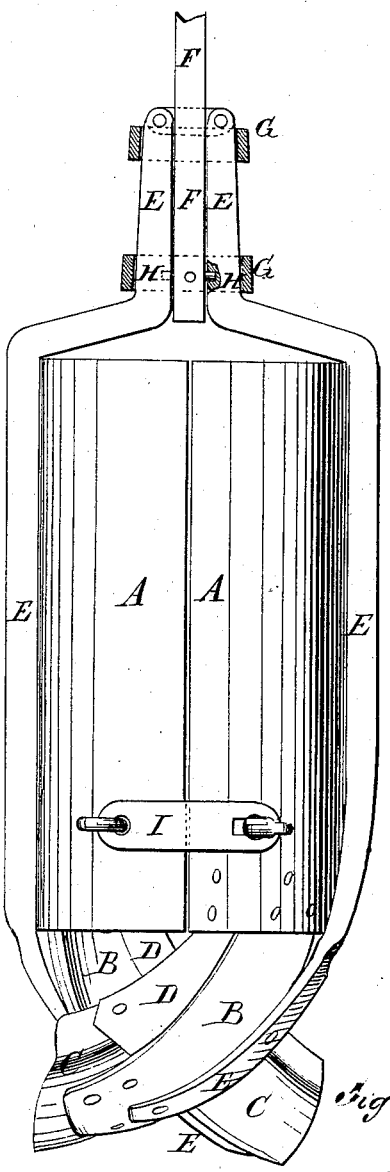


Fig: 2.

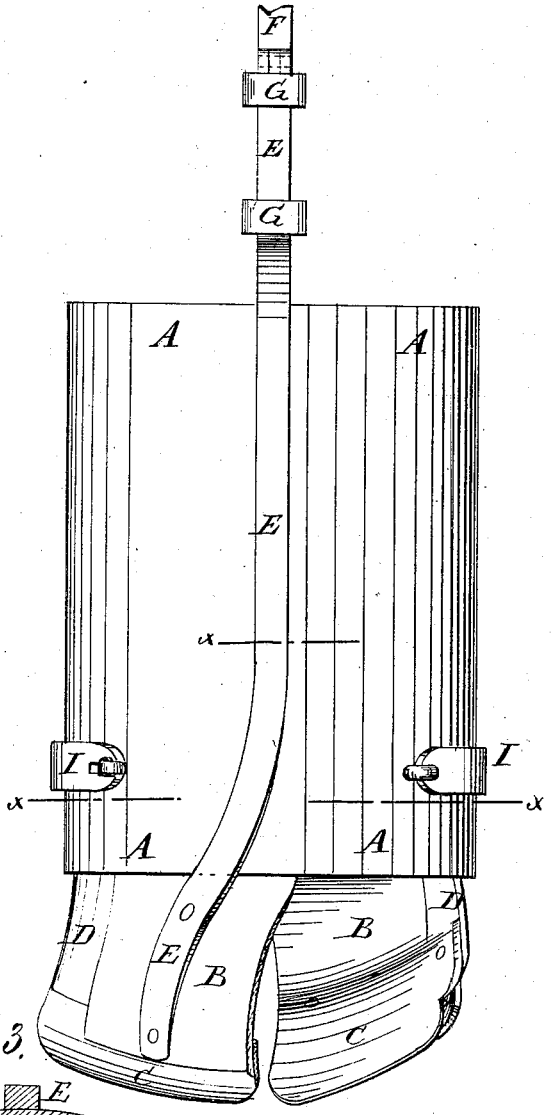
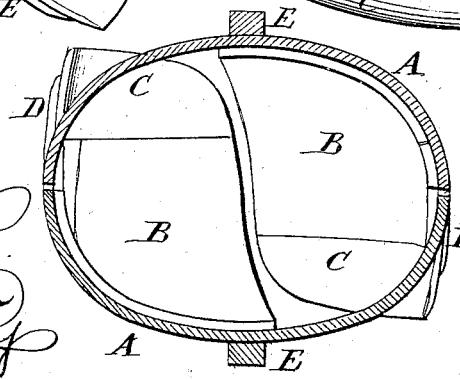


Fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

OSCAR RUST, OF MACON CITY, MISSOURI.

IMPROVEMENT IN EARTH-AUGERS.

Specification forming part of Letters Patent No. **166,303**, dated August 3, 1875; application filed June 19, 1875.

To all whom it may concern:

Be it known that I, OSCAR RUST, of Macon City, in the county of Macon and State of Missouri, have invented a new and useful Improvement in Earth-Augers, of which the following is a specification:

Figure 1 is a side view of my improved earth-auger. Fig. 2 is a side view of the same turned one-quarter around. Fig. 3 is a horizontal section of the same, taken through the line *x x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved earth-auger, which shall be simple in construction, strong, durable and convenient in use, passing up and down the bore easily, and being readily opened to discharge the load.

The invention will first be fully described in connection with drawing, and then pointed out in the claims.

A is the body or bucket of the auger, which is made elliptical in its cross-section, and in two parts, pods, or shells, the plane of division passing through the longer axis of the ellipse. To the forward part of the lower end of each pod A is secured, by bolts or rivets, a jaw, B. The jaws B project downward and forward, and are slightly concaved, and their lower ends pass each other. To the forward ends of the jaws B are secured the bits C, the edges of which are made oval, and have their corners rounded off. The outer ends of the bits C are curved upward, and project outward a little beyond the walls of the pods A, so as to cut a bore a little larger than the bucket A, so that the said bucket can be readily raised and lowered through said bore. D are braces, the lower ends of which are attached to the turned up outer ends of the bits C, and the upper ends of which are attached to the lower ends of the pods A, so as to brace the bits, and at the same time serve as guides to the slices of earth passing up into the buckets. E are arms attached to the middle parts of the outer sides of the pods A, so as to be in line with the shorter axis of the buckets. The lower ends of the arms E project downward, are curved forward, and are secured by bolts or rivets to the outer sides of the jaws B to strengthen the said jaws. The upper ends of the arms E, at the top of the bucket A, are bent or curved inward to the shaft F, and are then bent upward along the opposite sides of said shaft. The upper ends of the arms E are hinged to lugs attached to the said shaft F. The upper parts of the arms E are held against the opposite sides of the shaft F by collars G slipped down upon them, as shown in Figs. 1 and 2. The arms E are further strengthened against lateral movement upon the shaft F by a pin, H, passed through the shaft F, and the ends of which enter holes in the inner sides of the said arms E. The parts or pods A are further secured together near their lower ends by hasps I, one end of each of which is pivoted to one of the pods A by a staple or other convenient means, and their other ends are secured to the other pod A by buttons or other suitable fastenings.

In using the auger, when the bucket A has been filled, raised from the bore, and swung to one side, the collars G are slipped up and the hasps I are unfastened, which allows the parts of the buckets to swing apart, dropping the earth into a box, barrow, or other receiver.

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

1. The bucket or shell A of an earth-auger, made elliptical in its cross-section, and in two parts, the plane of division passing through the longer axis of the ellipse, substantially as herein shown and described.

2. The round-cornered oval-edged concaved bits C, having their outer ends bent upward, in combination with the jaws B of the bucket A, substantially as herein shown and described.

3. The combination of the braces D with the turned-up outer ends of the bits C, and with the lower ends of the parts of the bucket A, substantially as herein shown and described.

4. The combination of the hasps I with the parts of the bucket or shell A of an earth-auger, substantially as herein shown and described.

OSCAR RUST.

Witnesses:
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