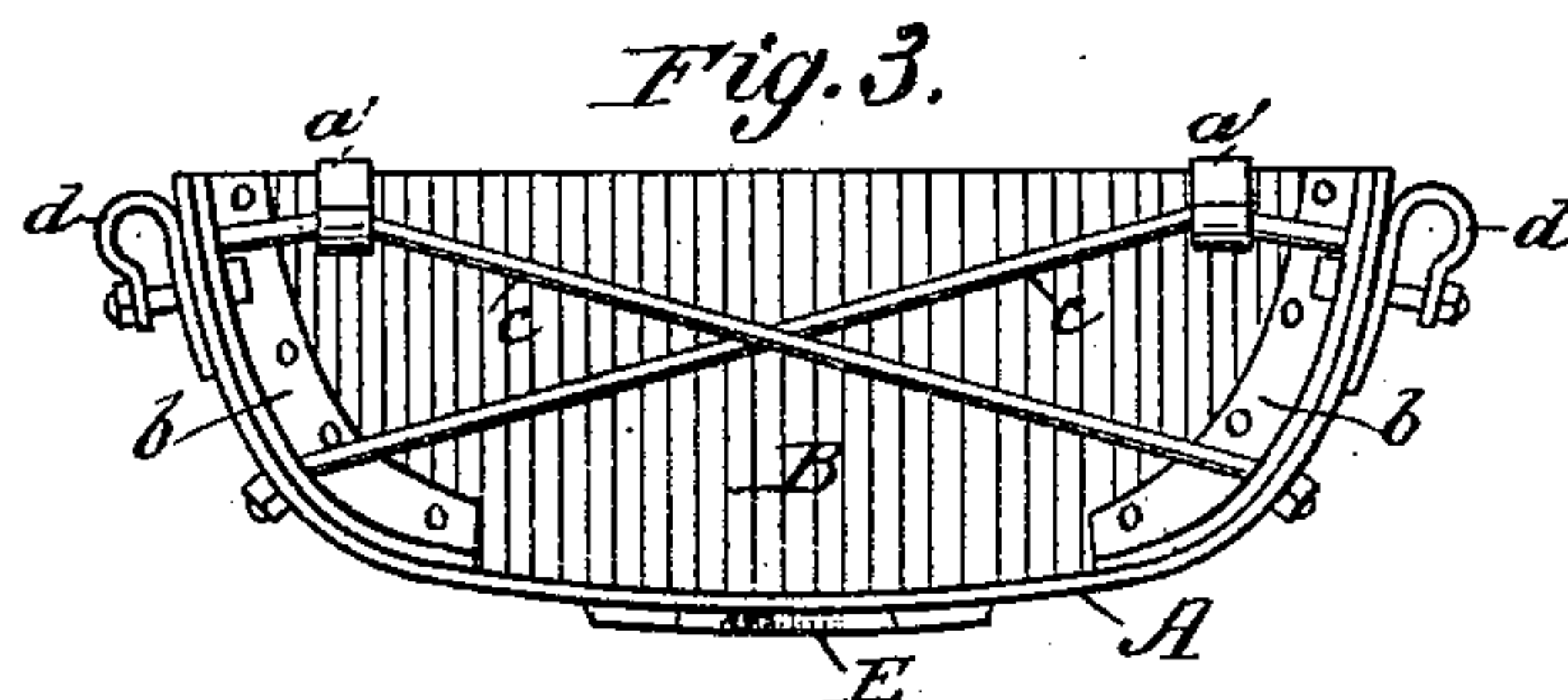
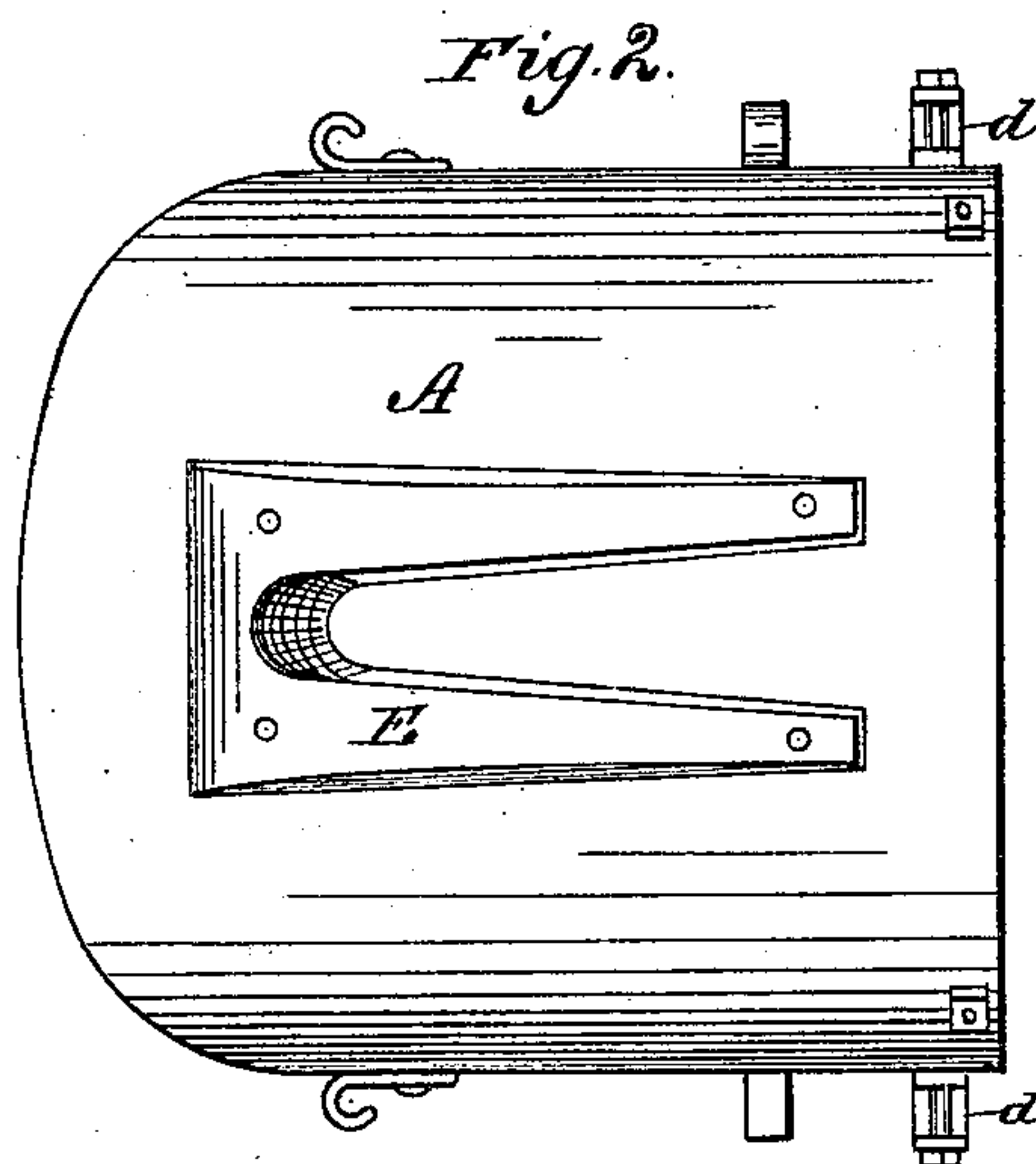
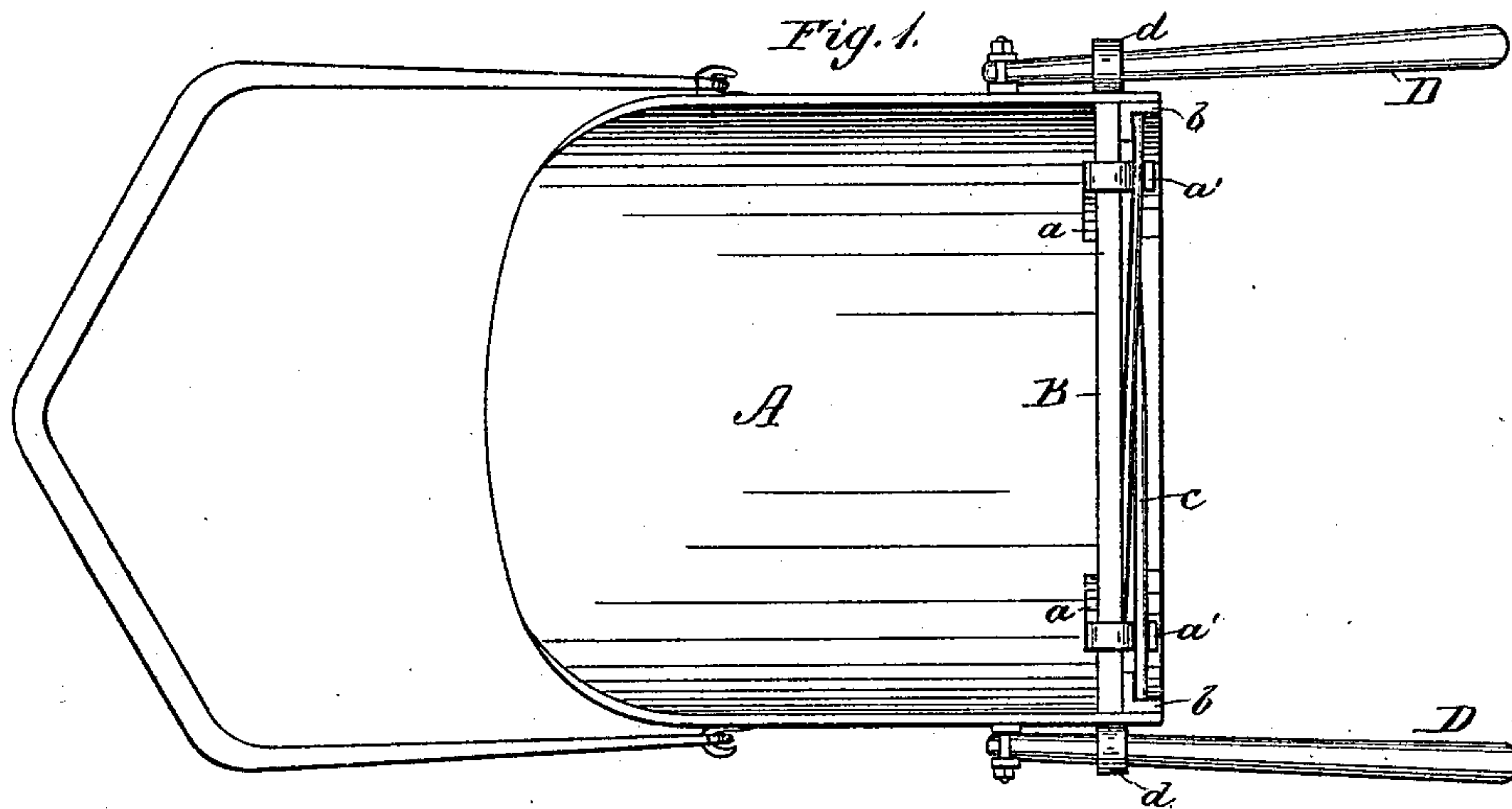


(No Model.)

J. N. NUTT.
EARTH SCRAPER.

No. 251,627.

Patented Dec. 27, 1881.



WITNESSES:

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JASPER N. NUTT, OF SIDNEY, OHIO.

EARTH-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 251,627, dated December 27, 1881.

Application filed September 8, 1881. (No model.)

To all whom it may concern:

Be it known that I, JASPER N. NUTT, of Sidney, in the county of Shelby and State of Ohio, have invented a new and useful Improvement in Earth-Scrapers, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a plan view of my improved scraper; Fig. 2, a view of the scraper inverted, and Fig. 3 a rear elevation.

The scoop A is of ordinary construction, and is provided with the usual wooden back, B; but for securing these parts securely together I employ two curved angle-plates, *b*, which are riveted or bolted to the outer surface of the back and to the curved portions of the scoop. On the inner surface of the back I arrange two metal strips, *a*, whose lower ends are secured to the lower ends of the angle-plates by means of bolts or rivets passing through the back. The upper ends of the strips are slightly inclined outward from each other and bent over the upper edge of the back through recesses formed therein, then downward and upward at the rear of the back to form hooks *a'*. A stay-rod, *c*, is then inserted through a perforation in one angle-plate and the scoop, near the top thereof, passed upward over the hook *a'*, and then bent downward to the center of the curve in the side of the scoop and through a perforation in the opposite angle-plate, and secured by a nut on the outside. The upper end of the rod *c* is provided with a suitable head to prevent it from being drawn through the said perforation when the nut is screwed on the opposite end. The two stay-rods which are thus arranged on the outside of the back cross each other at the center, and serve to hold the sides of the scoop to the back and to draw the back downward to the bottom of the scoop. In this manner the scraper is relieved of lateral strain, and the back thereby prevented from splitting. After the stay-rods have been secured in place the handles D are attached to the sides of the scoop by means of loops *d*, which consist of curved strips of metal adapted to inclose the cylindrical handles, and provided with perforated ends, through which bolts are inserted to hold them to the outer

surface of the scoop and to tighten them upon the handles by screwing up the nuts. These loops are elastic and bent so as only partially to surround the handles, whereby they may be drawn up close about the handles as the latter gradually shrink in size. Each handle is provided with two loops, one of which I prefer to arrange in an inverted position as compared with the other.

I also provide the bottom of the scoop with two runners, E, which are formed in one piece at their forward end to give a broad surface for the scraper to rest upon when loading. From the forward end the runners diverge from each other or taper to their rear ends, so as to be able to clear themselves of earth, and thus prevent clogging.

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

1. In a scraper, the elastic loops *d*, consisting of curved strips of metal which are adapted to be closed partially about the cylindrical handles D, and having their ends perforated for receiving a bolt, substantially as shown and described.

2. In a scraper, the combination, with the scoop A, back B, curved angle-plates *b*, and strips *a*, secured on the inside of the back and bent over the upper edge thereof, of the rods *c*, which are secured diagonally at the rear of the back and supported in hooks formed in the said strips, and which are adapted to be tightened by means of nuts on their lower ends, substantially as shown and described.

3. In a scraper, the combination, with the back B, the angle-plates *b*, and the cross-rods *c*, of the metal strips *a*, which are located on the inner surface of the back, having their lower ends secured to the lower ends of the angle-plates, respectively, by means of bolts or rivets passing through the back, and which are bent over the upper edge of the back and provided with hooks *a'* for receiving the rods, substantially as shown and described.

4. In a scraper, the combination, with the scoop A, back B, rods *c*, and strips *a*, of the angle-plates *b*, which are curved to fit the sides of the scoop and have their lower ends secured to the lower ends of the strips, and which are

provided with perforations for receiving the ends of the stay-rods and the bolts by which the handles are secured, substantially as shown and described.

- 5 5. In a scraper, the combination, with the scoop A, of the runners E, which are formed in one piece at their forward end to give a broad surface for the scraper to rest upon when

loading, and which are made tapering to their rear ends to prevent being clogged with earth, so substantially as shown and described.

JASPER NEWTON NUTT.

Witnesses:

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