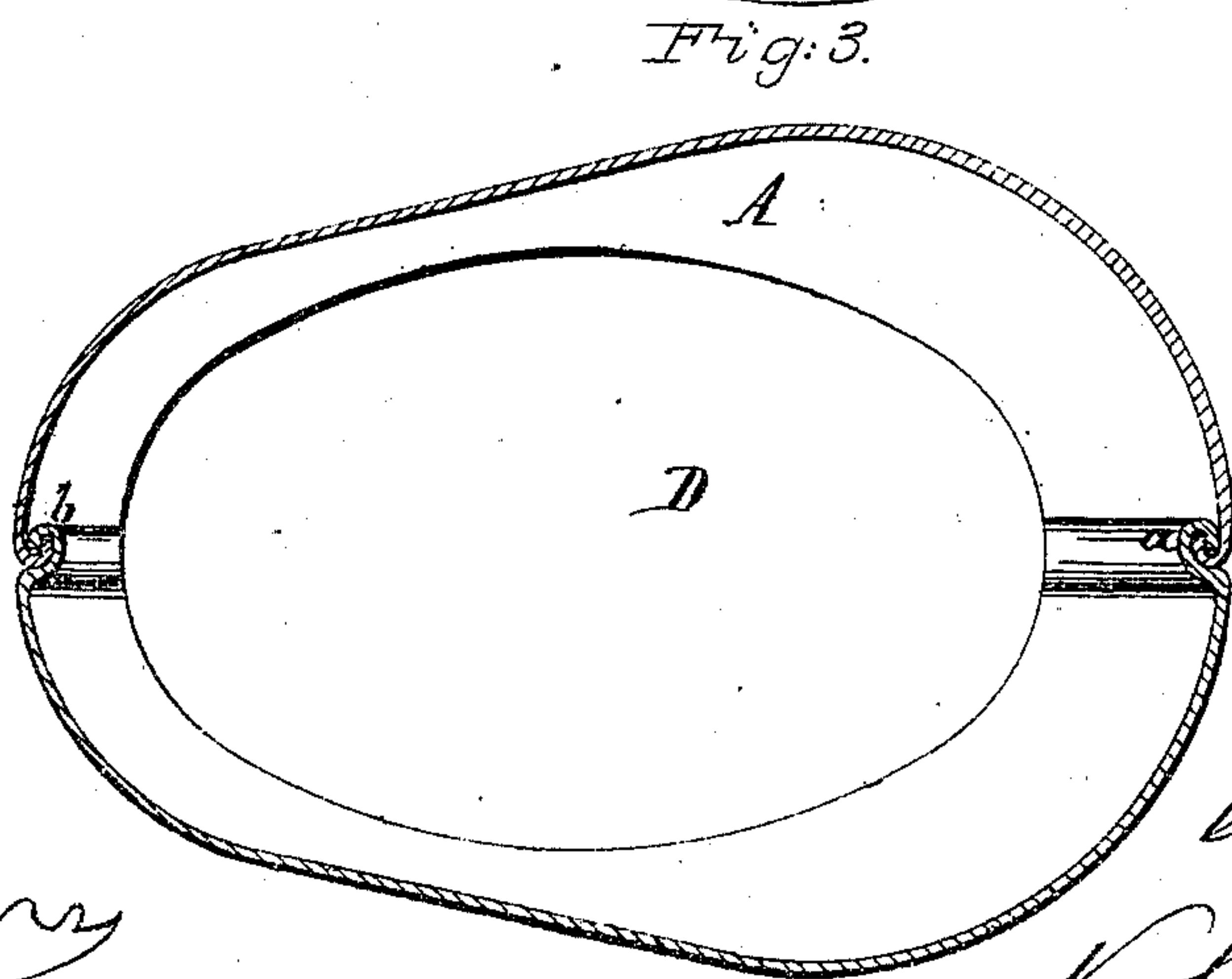
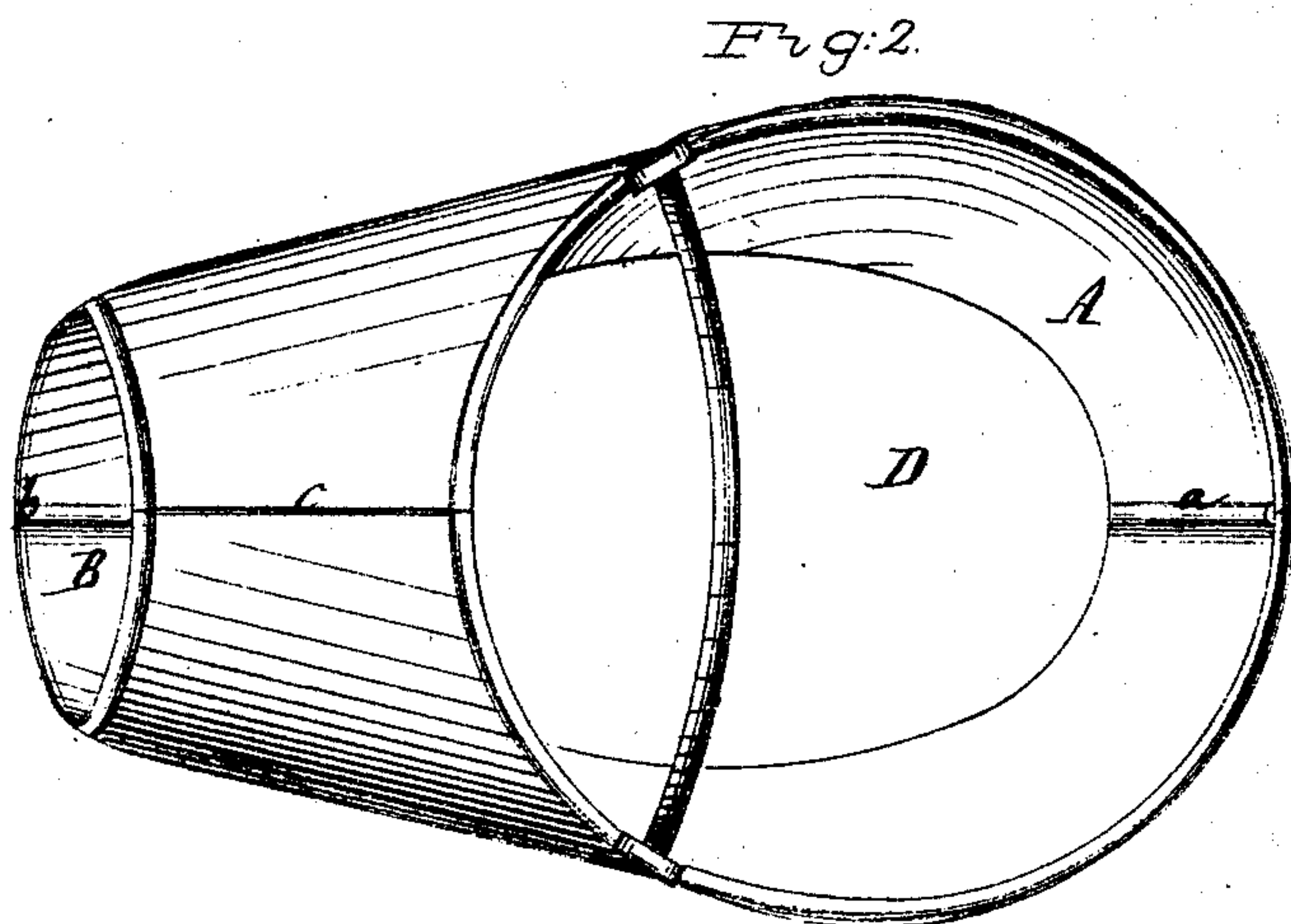
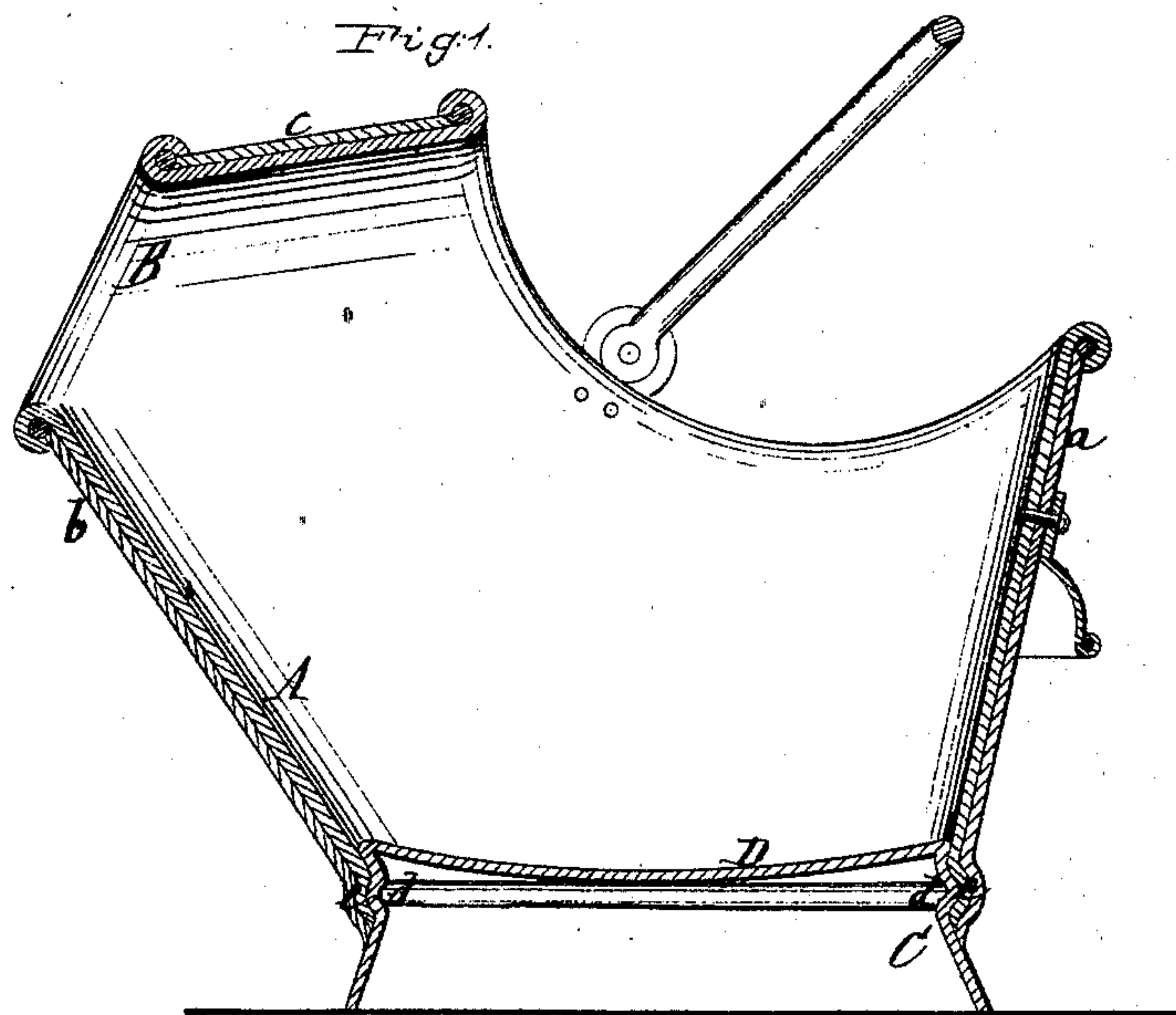


Charles Smith's Improved Coal Hods.

No. 120,336.

Patented Oct. 24, 1871.



Witnesses.
E. F. Kastenhuber
T. B. Mahler

Inventor:
Charles Smith
Per
Van Santvoord & Harp
Attys

UNITED STATES PATENT OFFICE.

CHARLES SMITH, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN COAL-HODS.

Specification forming part of Letters Patent No. 120,336, dated October 24, 1871.

To all whom it may concern:

Be it known that I, CHARLES SMITH, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Coal-Hods; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a vertical section of this invention. Fig. 2 is a plan or top view of the same. Fig. 3 is a horizontal section of the same.

Similar letters indicate corresponding parts.

This invention relates to an improvement in coal-hods; and it consists in forming the body of the hod, together with its discharge-spout, of two pieces of sheet metal, which are counterparts or duplicates of each other, said parts being united together by a joint in the front and rear of the hod, and by a joint on the top part of the discharge-spout.

In the drawing, A designates the body of my coal-hod, which is provided with a discharge-spout, B, and which, together with said spout, is constructed with two pieces of sheet metal, united by joints *a* and *b* in front and rear of the body, and by a joint, *c*, on the top of the spout B. C is the base or hoop of the hod, stamped or otherwise produced in one piece with the bottom D, and just below the bottom said hoop is provided with a bead, *d*, to drop into a corresponding bead, *e*, near the bottom edge of the body A. If the bead of the body is sprung over the bead of the hoop the bottom edge of the body bears against the flaring outside surface of the hoop and a firm connection is effected, requiring no rivets or any extra labor. The two pieces of metal mentioned above form the body of the hod and its discharge-spout when brought together, and, as they are counterparts or duplicates of each other, they

can readily be produced by the sole use of a single set of dies. By giving the side *a* more or less inclination the inclination of the spout is increased or decreased, as desired. In a hod formed of two pieces of metal, one of them carrying the spout complete, or an opening for communication with the spout, and the parts joined together at the sides, it is evident that two separate sets of dies would have to be employed. By my improvement the labor required for joining the parts of the hod is materially reduced, and I am enabled to use a single piece of wire for the purpose of strengthening the mouth of the hod. In order to insert this wire with ease and facility, I make the edges of the mouth so that the same form a continuous unbroken curve, so that I can start the wire at the top of the joint *a* and carry the same round as the edge of the mouth is turned in the wiring-machine, until the ends of the wire join at the joint *a*. If the edge of the mouth does not form an unbroken curve it is not possible to carry a single wire all the way round; and in coal-hods provided with a spout and constructed with side joints two pieces of wire are used, one in the edge of the body and the other in the edge of the spout, and thereby the strength of the hod is materially impaired.

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

The two pieces of sheet metal, each being a counterpart of the other, properly formed and united together by the front and rear joints *a b*, and the top spout-joint *c*, to produce the body of the coal-hod, as herein shown and described.

CHARLES SMITH.

Witnesses:

his
FRANK X McDONALD.

mark.
THO. BELL.

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