

E. DITHRIDGE.
POT FOR GLASS MAKING.

No. 31,011.

Patented Jan. 1, 1861.

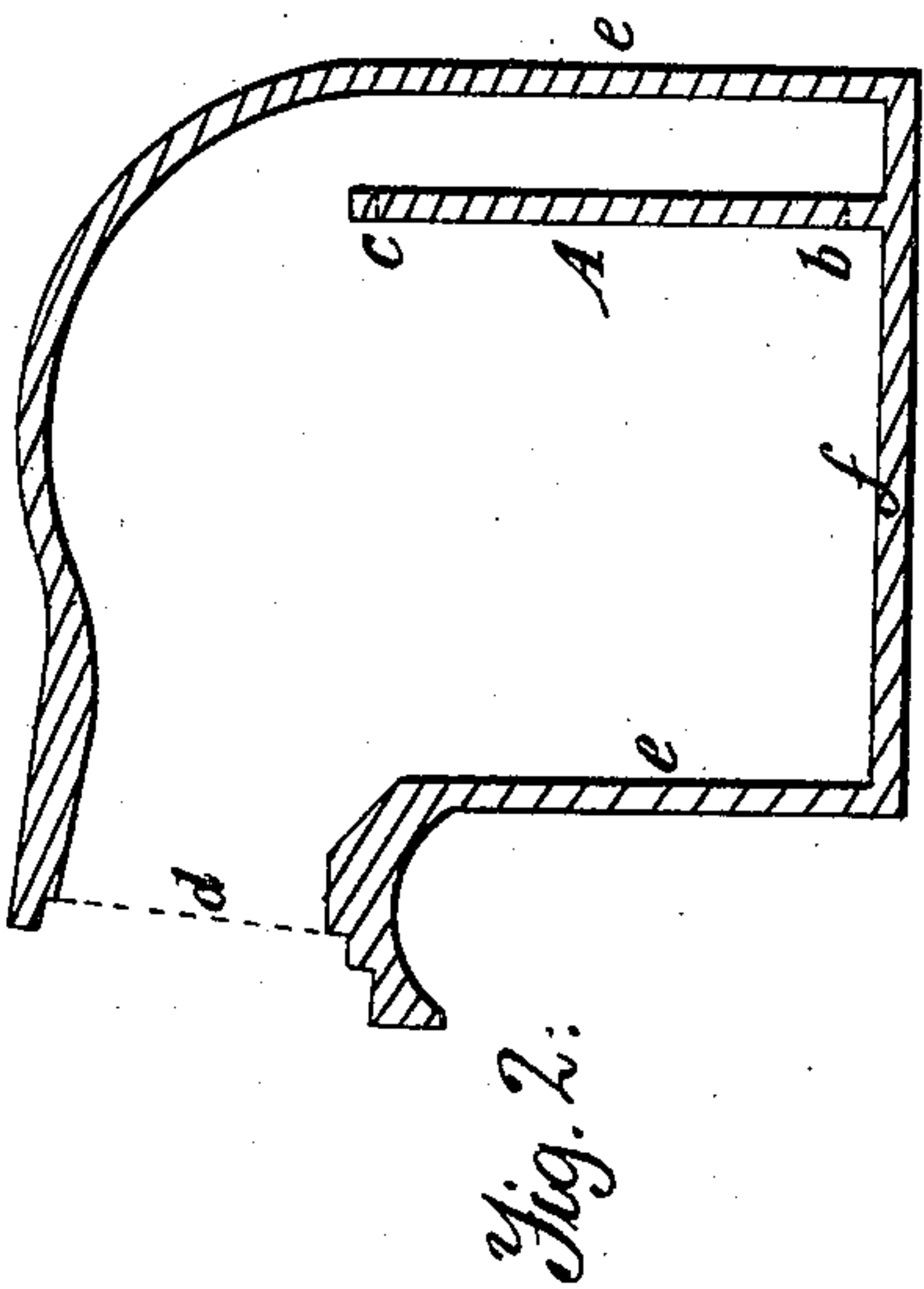


Fig. 4.

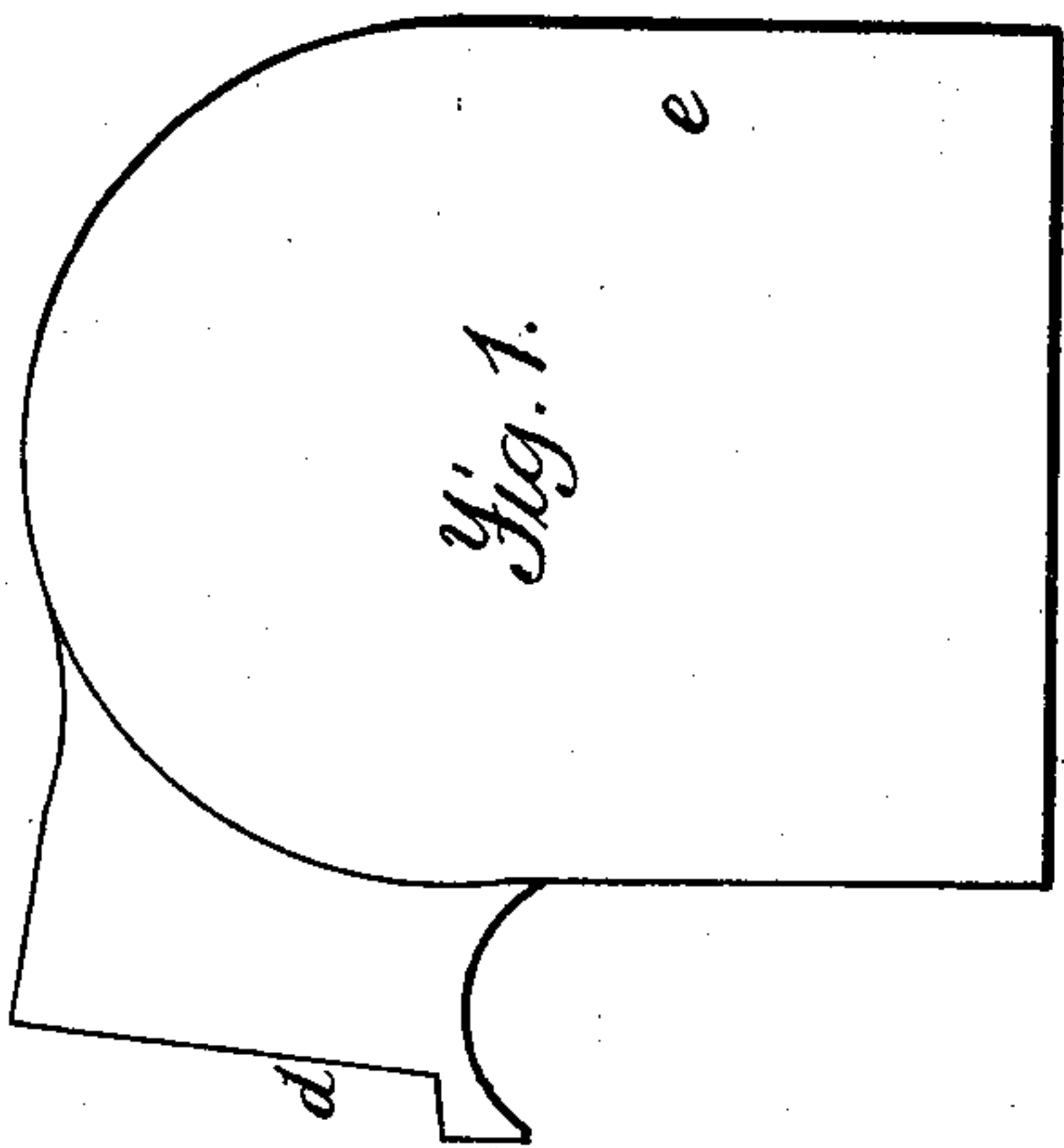
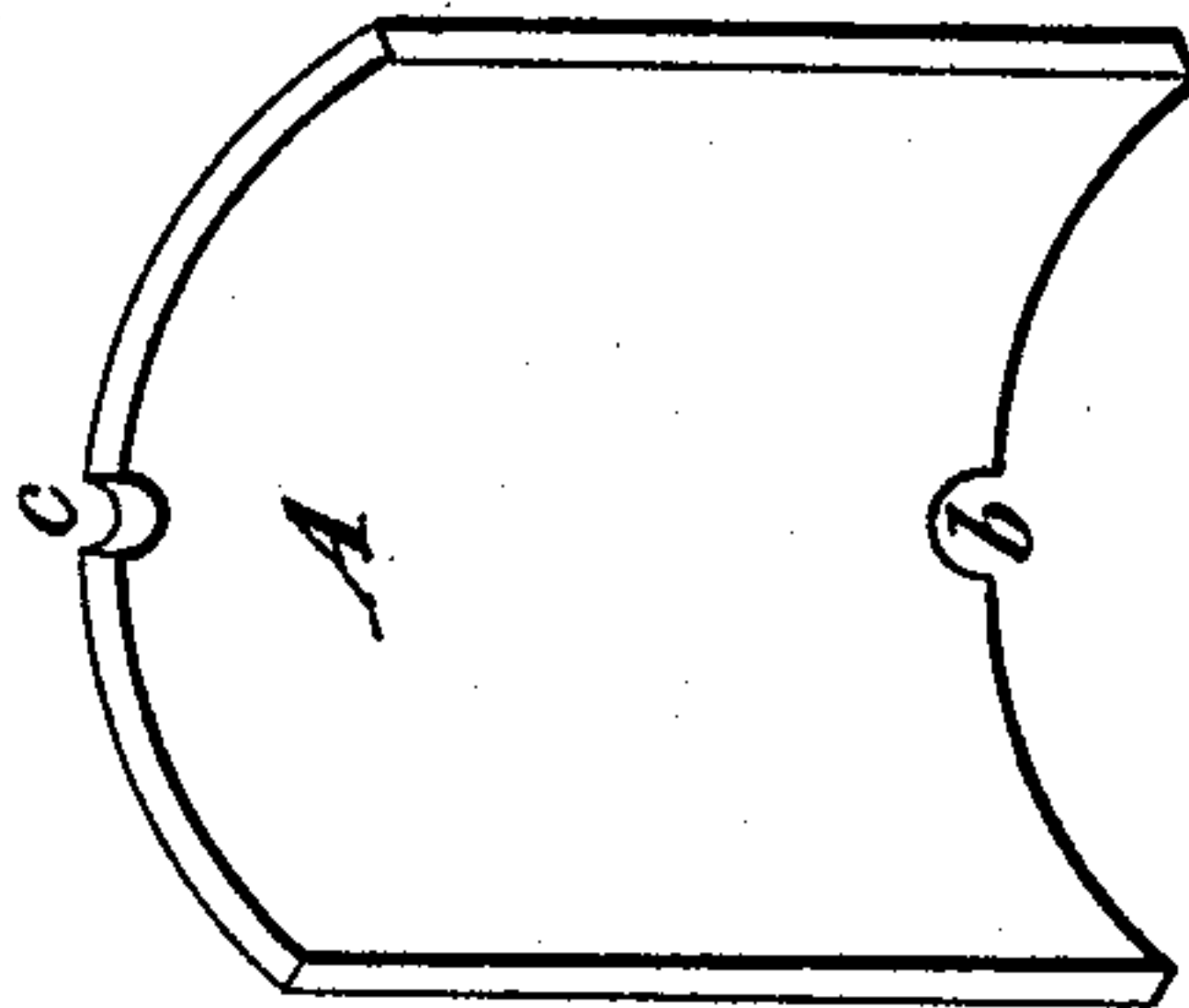
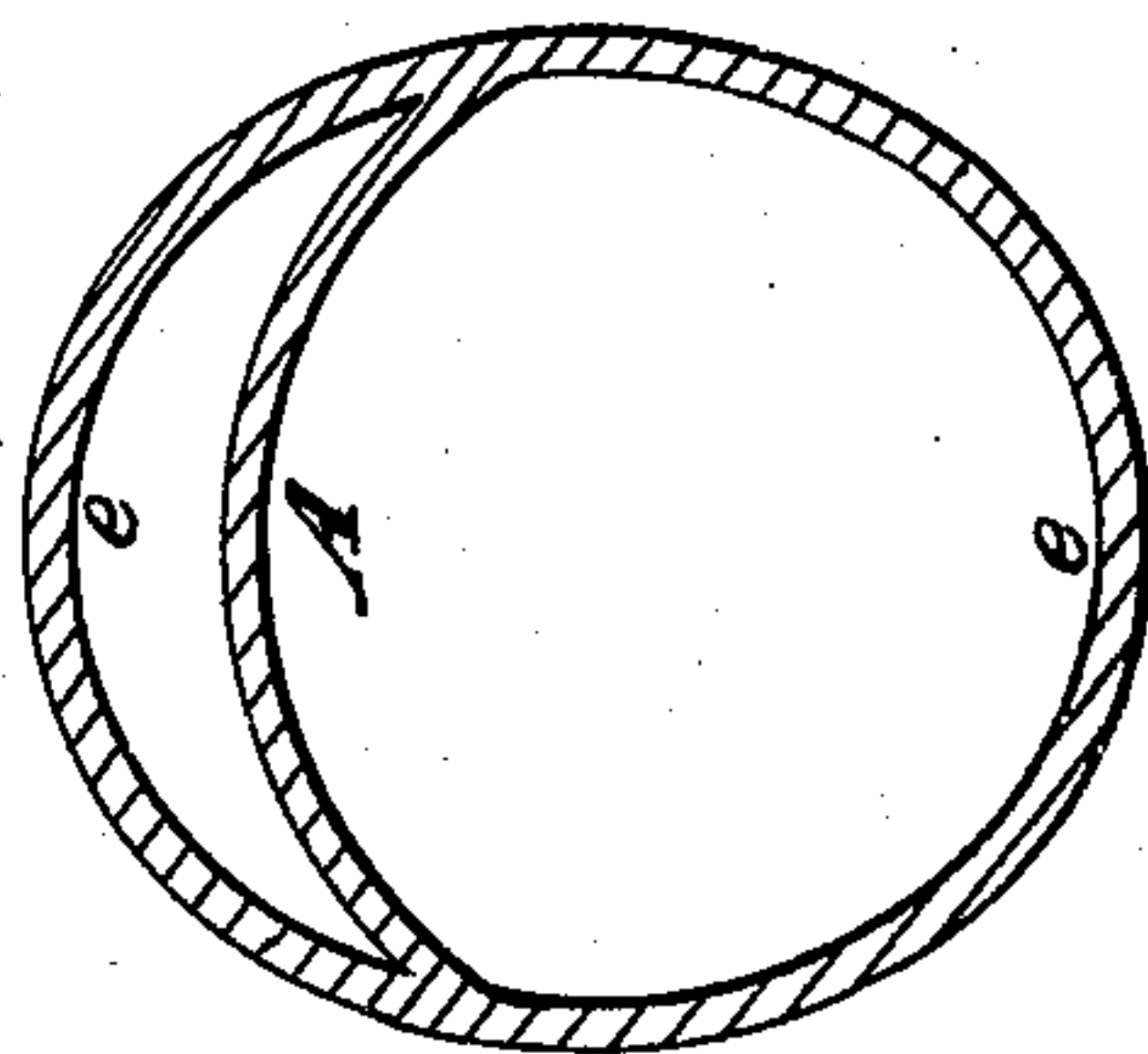


Fig. 3.



Witnesses.
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EDWARD DITHRIDGE, OF PITTSBURG, PENNSYLVANIA.

POT FOR GLASS-MAKING.

Specification of Letters Patent No. 31,011, dated January 1, 1861.

To all whom it may concern:

Be it known that I, EDWARD DITHRIDGE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Retorts or Pots for Making Glass; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in placing a second or false back in retorts or pots used for making glass, for the purpose of adding strength, and for relieving the back of the retort from a great part of the weight of the melted glass, and also for the purpose of avoiding the liability to crack or break.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, Figure 1, is an outline view of the retort. Fig. 2, is a cut or sectional view. Fig. 3, is a plan, representing the position of the second or false back. Fig. 4, is a sectional view in perspective, of the second or false back.

I construct my retort or pot in any of the known forms, and place a second or false back in it, said back is attached to the sides and bottom of the retort or pot and arranged in the position represented in Figs. 2, and 3, and extends up in the retort or pot to a line even with the mouth of the retort or pot.

(A) is the second or false back, (b) is an

opening in the back and is used for the purpose of allowing the melted glass between the two backs to flow into the main body of retort or pot, (c) is a way cut in the top edge of the second or false back, and is used for the purpose of allowing the salts to flow from between the two backs into the main body of the retort or pot, (d) is the mouth of the retort or pot, (e) is the shell of the retort or pot, (f) is the bottom.

In charging the retort or pot, a small quantity of the stock used in making glass, should be thrown first between the two backs, then charge up the retort or pot in usual manner.

By the use of the second or false back, the following advantages are obtained. First—strength and durability. Second—the back of the retort or pot is relieved from a great part of the weight of the melted glass. Third—avoiding the hasty or sudden chilling of the back of the retort or pot. Fourth—avoiding the liability to break or crack.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention and desire to secure by Letters Patent of the United States is—

The use of the second or false back in retorts or pots used for making glass, as herein described and for the purpose set forth.

EDW. DITHRIDGE.

Witnesses:

JAMES J. JOHNSTON,
E. D. DITHRIDGE.