

(No Model.)

G. ZIMMERMAN.
Glass House Pot.

No. 233,904.

Patented Nov. 2, 1880.

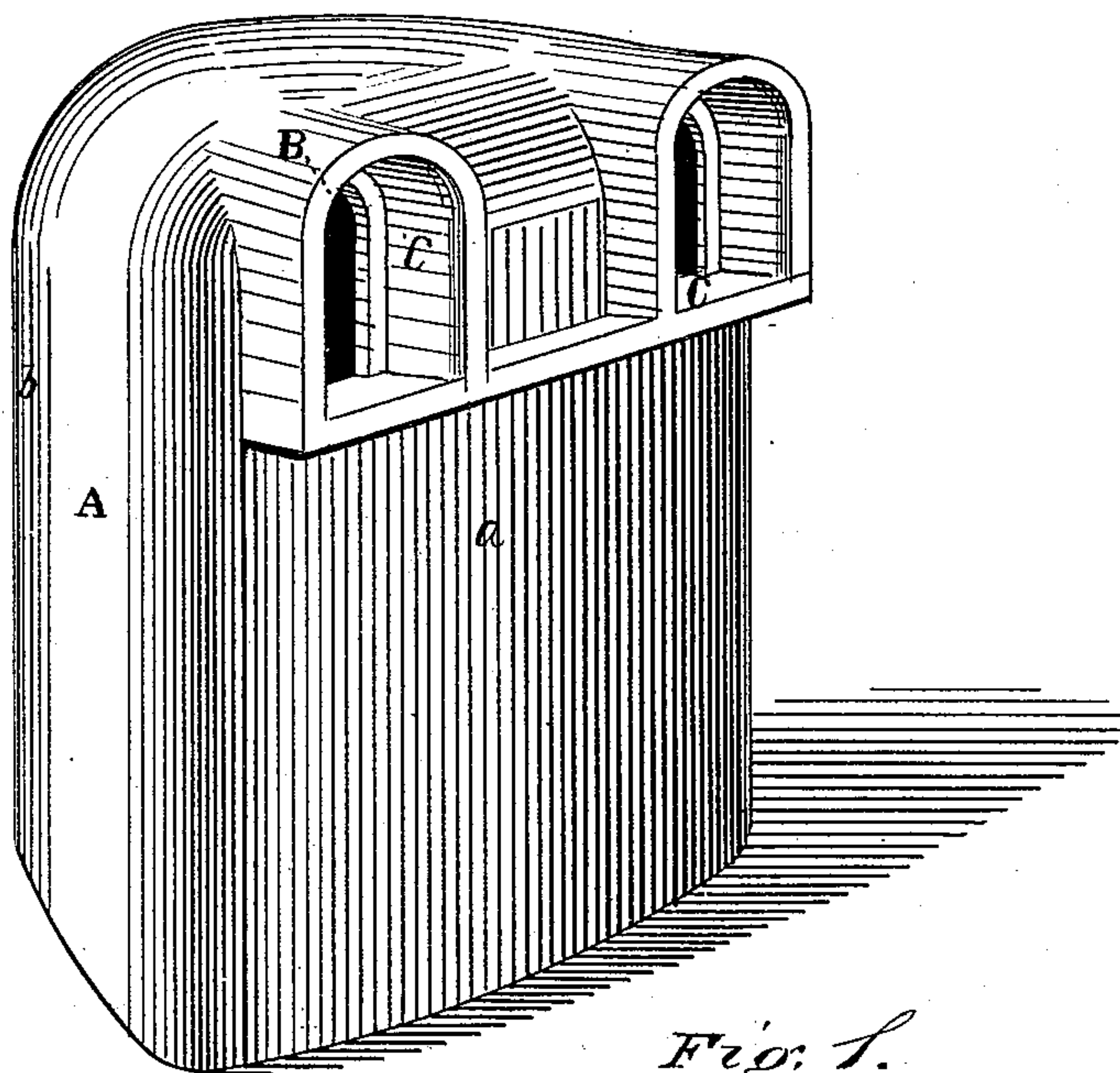


Fig. 1.

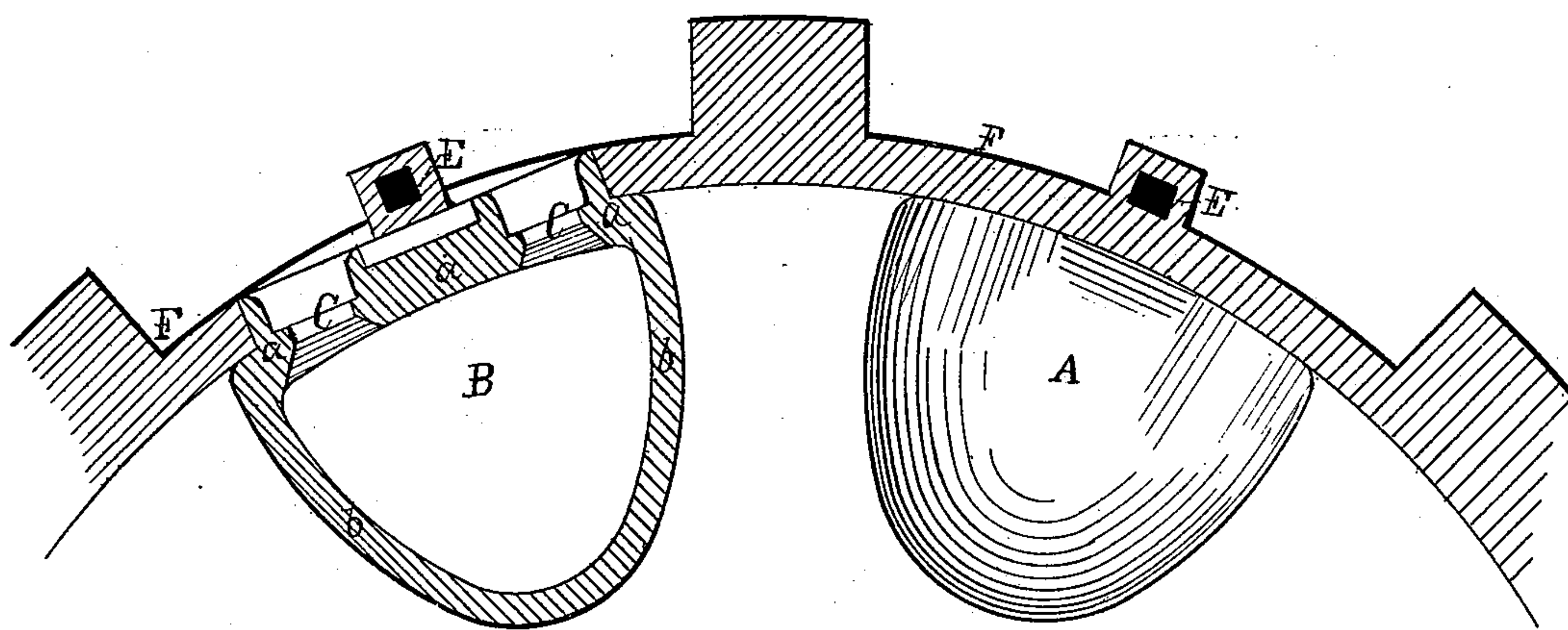


Fig. 2.

Witnessed
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UNITED STATES PATENT OFFICE.

GEORGE ZIMMERMAN, OF STEUBENVILLE, OHIO, ASSIGNOR TO HIMSELF
AND ROBERT J. BEATTY, OF SAME PLACE.

GLASS-HOUSE POT.

SPECIFICATION forming part of Letters Patent No. 233,904, dated November 2, 1880.

Application filed September 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ZIMMERMAN, of Steubenville, county of Jefferson, State of Ohio, have invented or discovered a new and useful Improvement in Glass-House Pots; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a perspective view of my improved glass-house pot, and Fig. 2 is a sectional plan view, illustrative of the arrangement of my improved pot with relation to the furnace-wall.

Glass-house pots have heretofore been made with a single mouth or working-hole opening into the chamber or compartment for melted glass, at which mouth or opening but a limited number of workmen or shops could be accommodated; also, in some cases, two mouths or openings have been made, one directly under the other, so that as the glass was lowered or partly worked out of the pot the lower mouth could be opened for the purpose of working out the balance of the glass with greater facility; but in all such cases only a single set of workmen could be employed at one time, and the quantity of glass which these few workmen or shops could work out has constituted a practical limit on the size or capacity of the pots employed in a glass-house. It is desirable, however, especially since the introduction of improved furnaces of increased capacity for melting glass, to increase the size of the pots, and in order that this may be done and still work out all the glass in the required time, I have devised a pot, as at A in the drawings, having therein a single chamber, B, for holding the melted glass, with two mouths or openings, C, into such chamber. These openings, separately considered, may be of the usual or any desired form, but they are arranged in a common horizontal plane near the top of the pot, and are separated a considerable space, so as to bring them near to the front side angles of the pot, and thereby afford room for the passage of a furnace escape-flue, E, between the mouths, if desired, and also room for separate sets of workmen to operate at each mouth or opening at the same time. In order to bring these two mouths into

proper position with relation to the furnace-wall I flatten somewhat the breast *a* of the pot, so as to widen it and bring the front corners near to the wall; and I also prefer to make the openings C and side walls, *b*, of the pot in, or nearly in, a radial direction with reference to the furnace, so as to economize space and enable the different workmen to gather the glass from different sides or parts of the pot and not interfere with each other.

With a pot thus made double the quantity of glass can be worked out in a given time as compared with a pot having but one mouth, or at which but a single set of men can work.

The advantages resulting from my improvement are very important, especially in large-size furnaces, since the inability to work out more than a certain limited quantity of glass from a single opening has been a serious difficulty in the way of introducing the improved furnaces of large melting capacity into general use.

I am aware that double pots have been made having a separate mouth or opening for each compartment or division, one mouth opening into the charging-chamber and one into the chamber containing the melted glass; but such a pot does not embody my invention, since, so far as working out the melted glass is concerned, it has but one working-opening, and possesses no advantage over the ordinary form of pot.

By still further increasing the size or width of the breast of the pot three or more openings or mouths may be made, substantially in the manner which I have above described.

I claim herein as my invention—

A glass-house pot having a plurality of mouths opening into the molten-glass compartment, said mouths being arranged in a common horizontal plane near the top of the pot, substantially as described, whereby separate sets of workmen are enabled to work from the same pot through the different mouths at the same time.

In testimony whereof I have hereunto set my hand.

GEORGE ZIMMERMAN.

Witnesses:

JOSEPH BEATTY, Jr.,
J. G. WEY.