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PATENTED MAR. 1, 1904.

M. A. CLAPP.
MOLDER'S FLASK.

APPLICATION FILED AUG. 26, 1903.

NO MODEL.

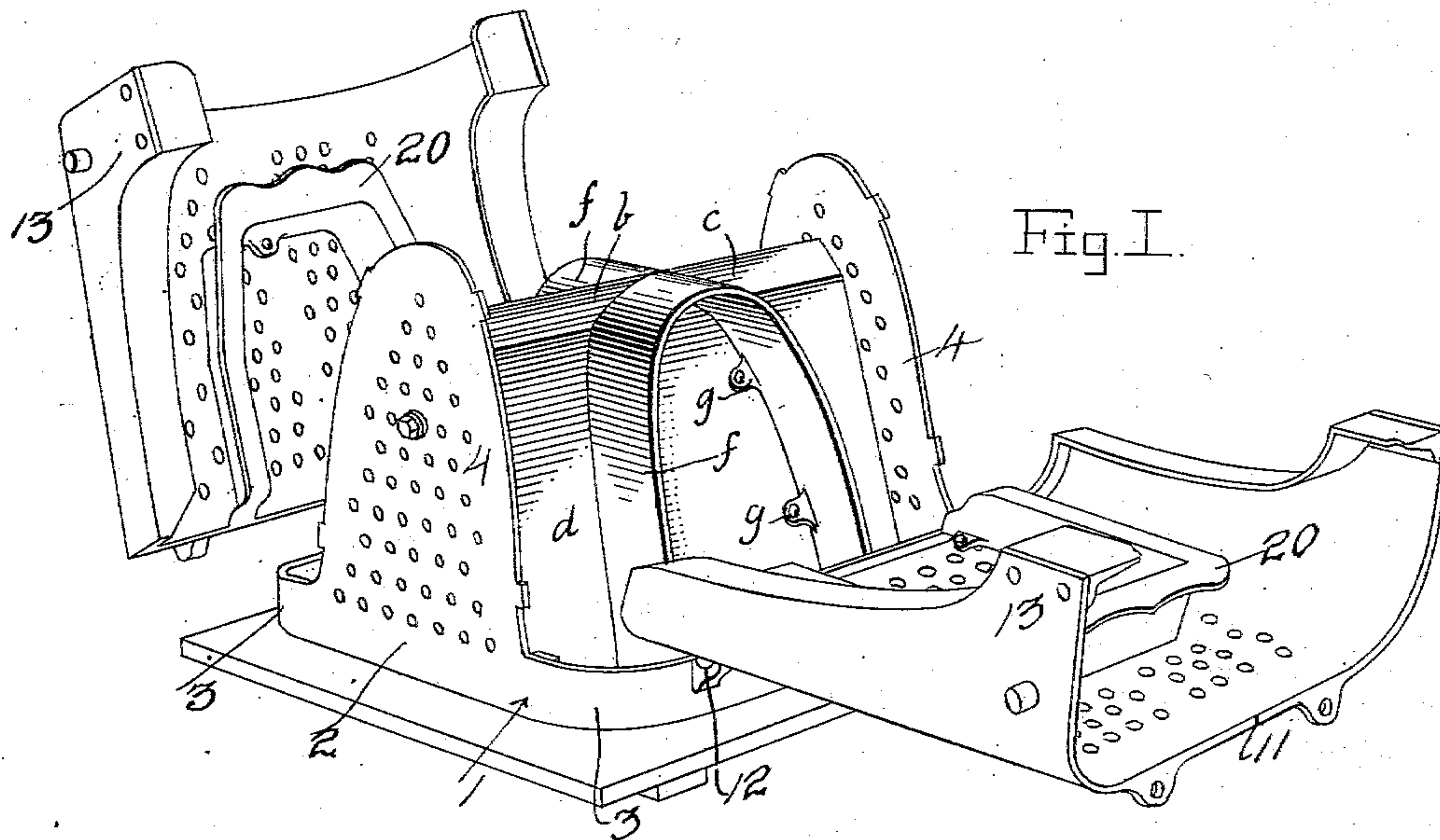


Fig. 1.

Fig. 2.

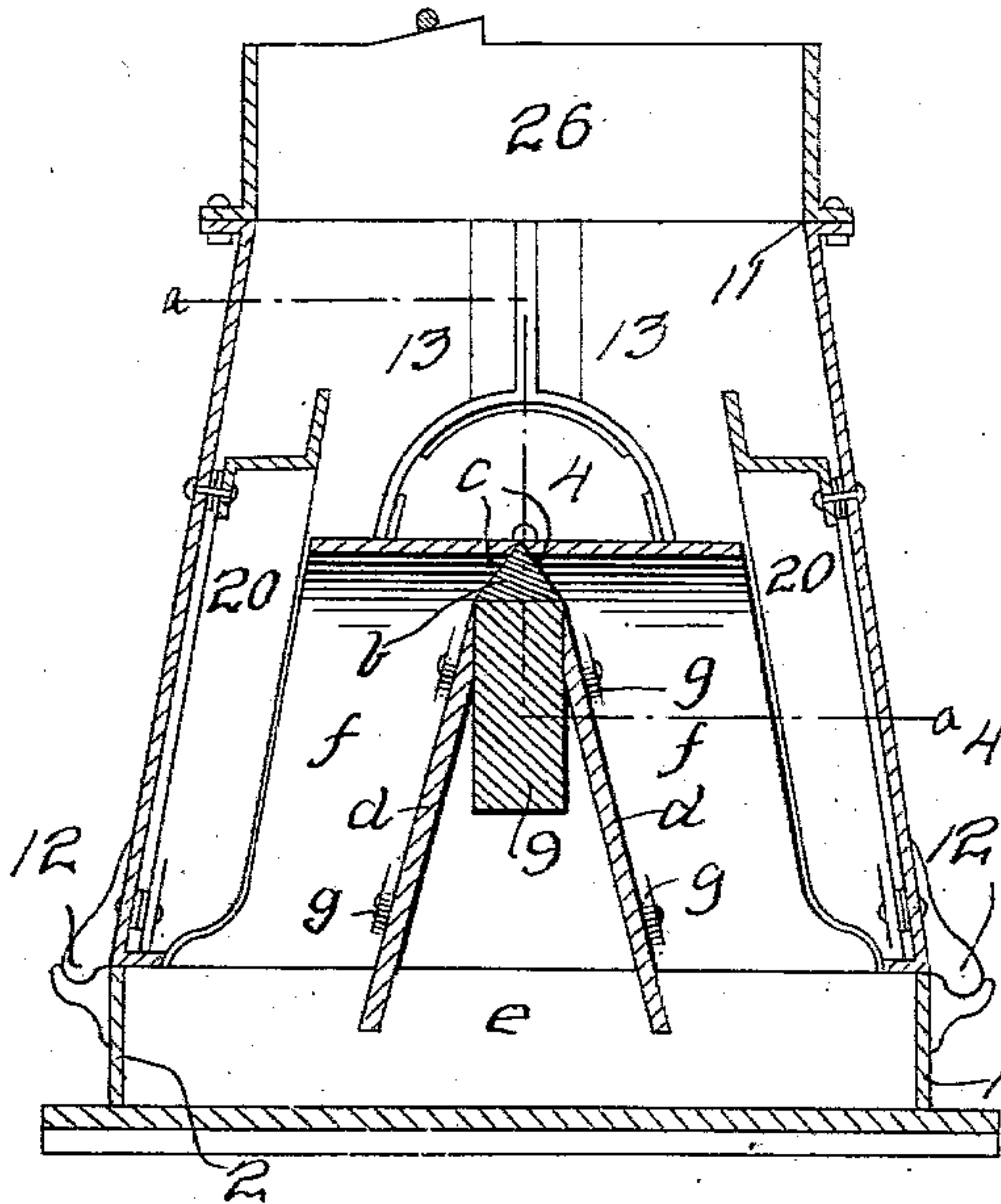
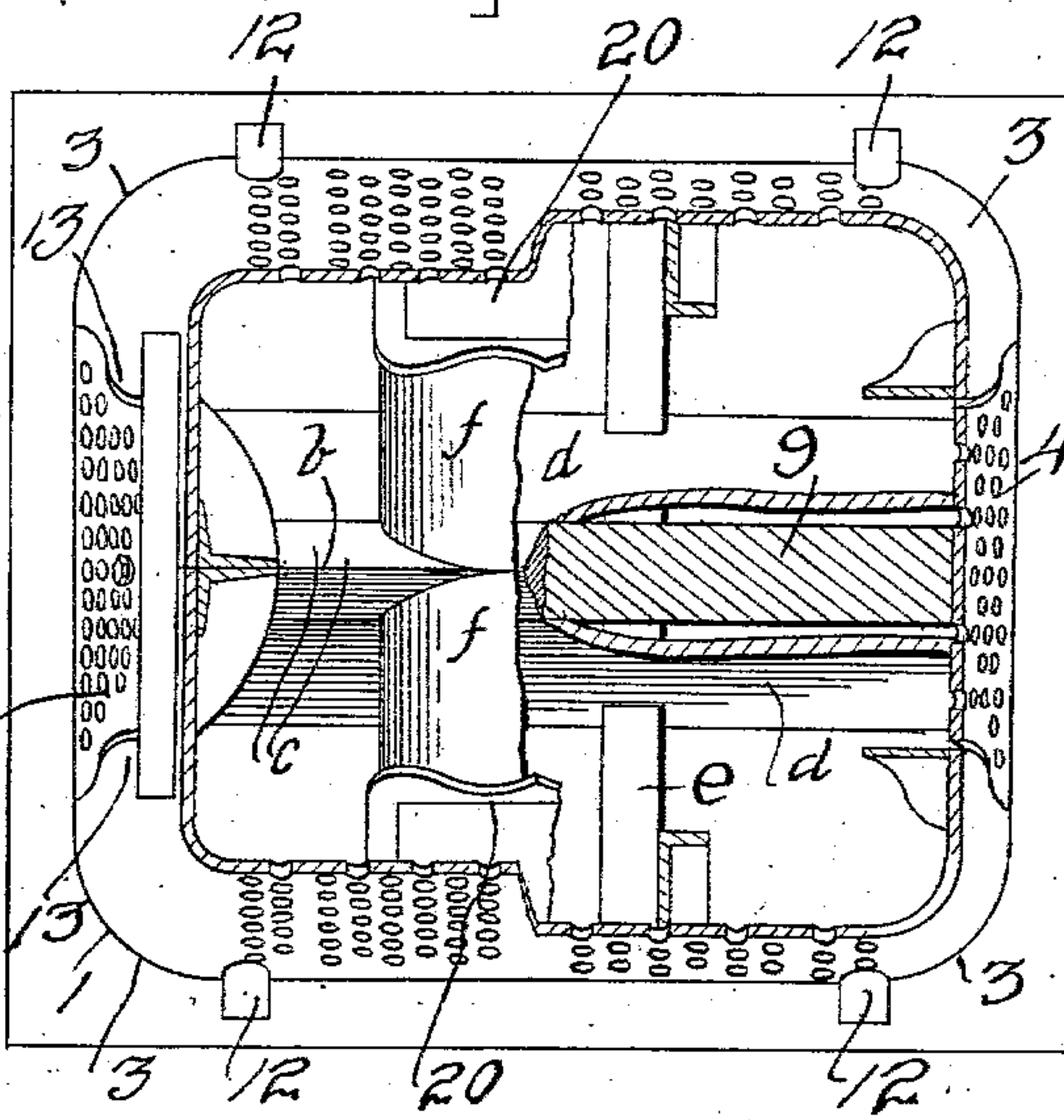


Fig. 3.



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MORTIMER A. CLAPP, OF POUGHKEEPSIE, NEW YORK.

MOLDER'S FLASK.

SPECIFICATION forming part of Letters Patent No. 753,471, dated March 1, 1904.

Application filed August 26, 1903. Serial No. 170,763. (No model.)

To all whom it may concern:

Be it known that I, MORTIMER A. CLAPP, a citizen of the United States, and a resident of Poughkeepsie, in the county of Dutchess and State of New York, have invented certain Improvements in Molders' Flasks, of which the following is a specification.

My invention relates to improvements in molders' flasks for molding four-legged stools, and is a specific improvement on the molder's flask described and claimed in the application of George Sague and Mortimer A. Clapp for Letters Patent of the United States, filed April 23, 1903, Serial No. 155,437, allowed June 27, 1903.

The object of my present improvement is to provide means for use in connection with such a molder's flask to reduce the quantity of sand required in the operation of the flask and to reduce the labor and time required in the operation of the flask and to correspondingly reduce the cost of molding in such a flask.

My invention further consists in the peculiar construction and combination of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a flask embodying my improvements, showing the same open. Fig. 2 is a transverse sectional view of the same closed. Fig. 3 is a horizontal sectional view of the same, taken on the two planes indicated by the line *a a* of Fig. 3.

The flask A shown in the drawings is of the construction shown, described, and claimed in the before-mentioned allowed application for Letters Patent of the United States, 1 being the nowel, 2 the frame thereof, 3 the rounded corners, 4 the end wall, 9 the brace-bar, 11 the cheek-pieces hingedly connected to the sides of the frame 2 by the separable knuckle-joints 12, 13 the end sections formed with the cheek-pieces to close against the opposite side edges of the end walls 4 of the nowel and coact therewith to form the end walls of the flask, 20 being the adjustable sand-retainers, and 26 being the cope.

In the embodiment of my improvements I provide a bar *b*, which is triangular in cross-section, is of the same length and width as the brace 9, and is secured on the upper side

of the said brace by suitable means, such as screws. The triangular form of the said bar provides the same with converging sides *c*, which when the nowel is reversed, as in the first operation of molding, allow the sand to be readily rammed into place with the usual rammer and obviate the necessity of having to pack the sand manually, which results when the said brace 9 has its sides at right angles to its flat upper side, as heretofore. I also provide a pair of side boards *d*, which have their upper inner edges beveled, as shown in Fig. 3, to engage the sides of the brace 9 at its upper edge and to converge to the sides *c* of the bar *b*. These boards are secured to the sides of the brace 9 by means of screws or other suitable devices, and the said boards extend downwardly at an angle approximating that of the sides *c* of the bar *b*, and their lower sides are secured by braces *e*, of wood or metal, into which they are fitted, the said braces having their ends secured to the sides of the nowel by means of screws or other suitable devices. It will be understood that the said side boards *d* in coaction with the brace 9, to which they are attached and to which they converge, form a hollow space in the center of the flask and correspondingly reduce the capacity of the flask, so that it requires much less sand to fill it than heretofore, and also correspondingly reduces its weight, so as to make it correspondingly easier to lift and move, as is required in the operation of the molding.

On the outer sides of the side boards *d* are space-forming devices *f*, which are substantially U-shaped, are preferably made of iron, and are provided with bosses *g* on their lower inner sides, which are secured to the outer sides of the boards *d* by screws or bolts, the said space-forming devices *f* being secured on the boards *d* in such position that they fit inside the sand-retainers 20 when the flask is closed, as shown in Fig. 3.

It will be understood that the space-forming devices *f* form compartments between the boards *d* and the cheek-pieces, which are effective to lessen the capacity of the spaces between said boards and cheek-pieces, to correspondingly reduce the quantity of sand required to fill said spaces, and to form compart-

ments in the four corners of the flask in which to mold the legs of the stool.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In combination with a molder's flask, comprising a nowel having end walls and cheek-pieces to close against the end walls of the nowel, a brace connecting said end walls and having converging sides and side boards secured to the said brace and coacting therewith to form a hollow space in the flask to reduce the capacity of the same and correspondingly reduce the quantity of sand required to fill it.

2. In combination with a molder's flask of the class described, having a nowel provided with end walls, cheek-pieces to close against

the end walls of the nowel, and a brace-bar connecting said end walls, side boards coacting with said brace-bar to form a hollow space in the flask to reduce the capacity thereof and correspondingly reduce the quantity of sand required to fill it, and space-forming devices on the outer sides of said side boards in the spaces between the latter and the cheek-pieces, substantially as described.

3. In combination with a molder's flask of the class described, comprising a nowel, having end walls, cheek-pieces to close against the end walls, a brace-bar connecting said end walls and sand-retainers on the inner sides of said cheek-pieces, side boards spaced apart, extending to the brace-bar and coacting therewith to form a hollow space in the center of the flask, and space-forming devices on the outer sides of said side boards in the spaces between the latter and the cheek-pieces, to form hollow spaces therein, said space-forming devices fitting in the sand-retainers of the cheek-pieces, when the latter are closed, substantially as described.

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