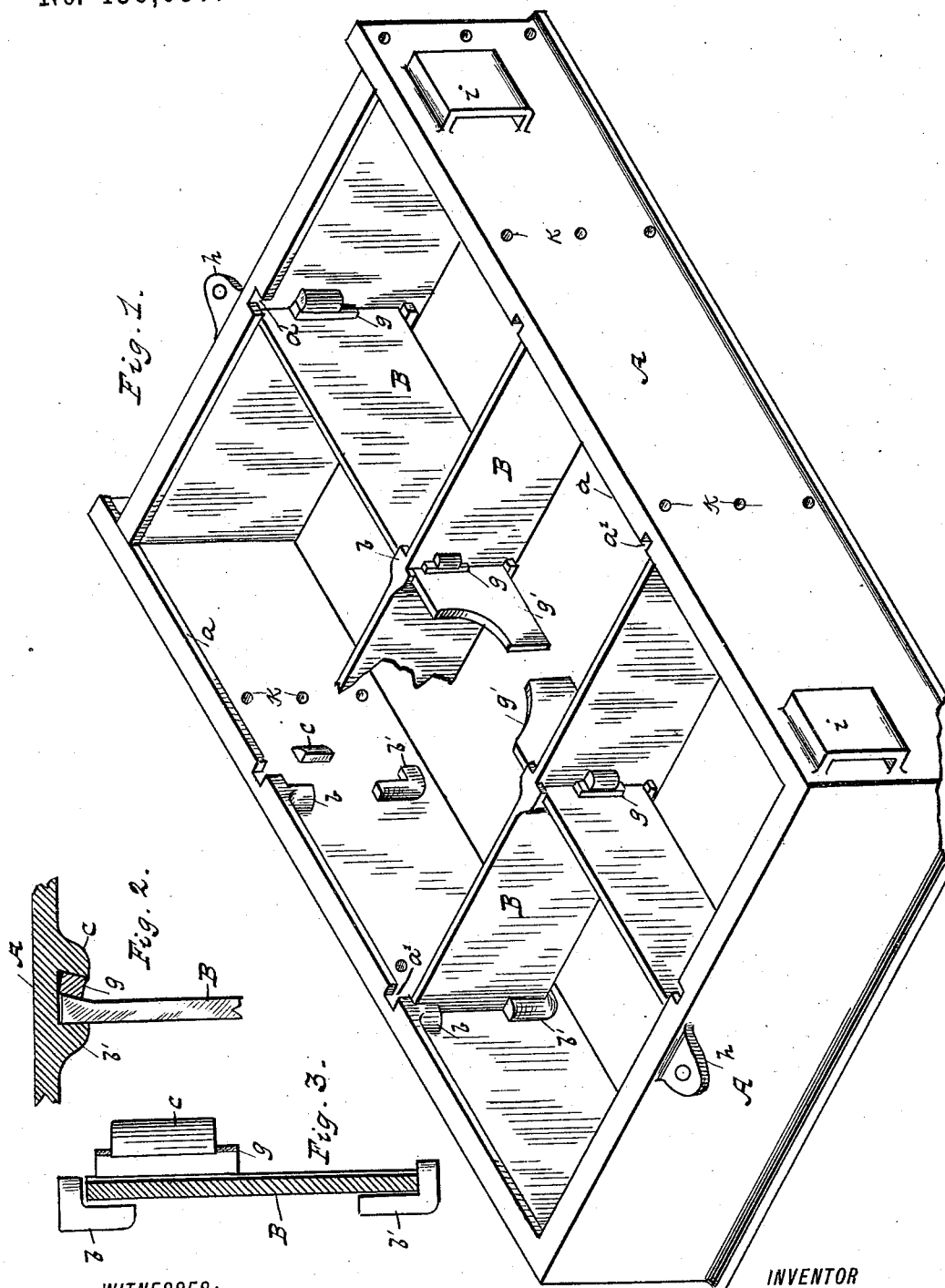


(No Model.)

R. TAYLOR.
MOLDER'S FLASK.

No. 456,097.

Patented July 14, 1891.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT TAYLOR, OF PITTSBURG, PENNSYLVANIA.

MOLDER'S FLASK.

SPECIFICATION forming part of Letters Patent No. 456,097, dated July 14, 1891.

Application filed January 2, 1891. Serial No. 376,530. (No model.)

To all whom it may concern:

Be it known that I, ROBERT TAYLOR, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Mold-Flasks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 indicates a perspective of a mold-flask inverted. Fig. 2 is a sectional view of a portion of side of flask and end of flask-bar, showing manner of securing said bars within the lugs on the interior of the flask. Fig. 3 is a sectional elevation of the same.

My object is to produce a flask which, by the proper adjustment of its bars, is adapted to receive castings of varying sizes, and this I accomplish by the device hereinafter described.

I will now describe my invention, reference being had to the accompanying drawings, forming part hereof, in which like letters indicate like parts wherever they occur.

Referring to said drawings, A is the outer wall or frame of flask, which for small castings is preferably cast in one piece, but for large castings may preferably be as shown in Fig. 1, cast in two parts, the bottom of said flask being as shown in said figure, provided with a rim or flange *a*, having at either sides and ends a number of gates or openings *a' a' a'*, &c. Immediately below and at either side said openings on the interior of the sides and ends of said flask are cast lugs *b, b'*, and *c*.

B B B B are bars, the ends of which are beveled correspondingly with the inner surface of the lug C, as shown in Fig. 2, and are adapted to pass through said openings in the rim of flange of the flask and to be secured between said lugs *b, b'*, and *c* by inserting the square key or plug *g* tightly between said bar and the lug *c*, as shown in drawings. The transverse bars may be provided with lugs similar to those on the inner sides of the flask, whereby wing-bars *g'*, or, if desirable, continuous bars, may be secured between the same, and said flask be thus adjusted to any class of casting.

h h are guides for the purpose of centering said flask, and *i i* are handles whereby the same may be conveniently moved.

Whenever it is necessary or desirable to shorten or diminish the size of said flask, the same may be done by removing the necessary bars intermediate the ends thereof and shoving one end of said flask (in drawings the upper) inward between the sides until the ends thereof are opposite either set of orifices or bolt-holes *k k k* and suitably securing the same at such point, and the space within the walls of said flask may then, if necessary, be subdivided by bars, as shown in drawings.

One of the many advantages of my improvement is that when the bars are secured between the lugs they are unaffected by the pressure of the metal either laterally or vertically. Consequently the top and bottom of said flask are convertible.

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

1. A mold-flask, substantially as described, having the flange *a*, provided with the perforations *a'*, the lugs *b b'* on the inner faces of the flask, one lug being arranged to form a seat between itself and the flange *a* and the other lug having the inwardly-projecting seat, the lug *c*, the dividing-bars fitted between the lugs *b, b'*, and *c* and resting on the seat formed by the lugs *b b'*, and the keys, as and for the purpose set forth.

2. A rectangular mold-flask, substantially as described, having the inwardly-projecting flange on the bottom edges of the flask, a series of openings in said flange, the lugs integral with the flask, two of said lugs being arranged on one side of and beyond the vertical plane of the sides of the opening in the flange and the other lug being diametrically opposite the first-named lugs, and bars dividing the flask and having the beveled end thereof secured in place between the lugs by a key, substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 20th day of December, A. D. 1890.

ROBT. TAYLOR. [L. S.]

In presence of—

C. C. LEE,
JNO. H. RONEY.