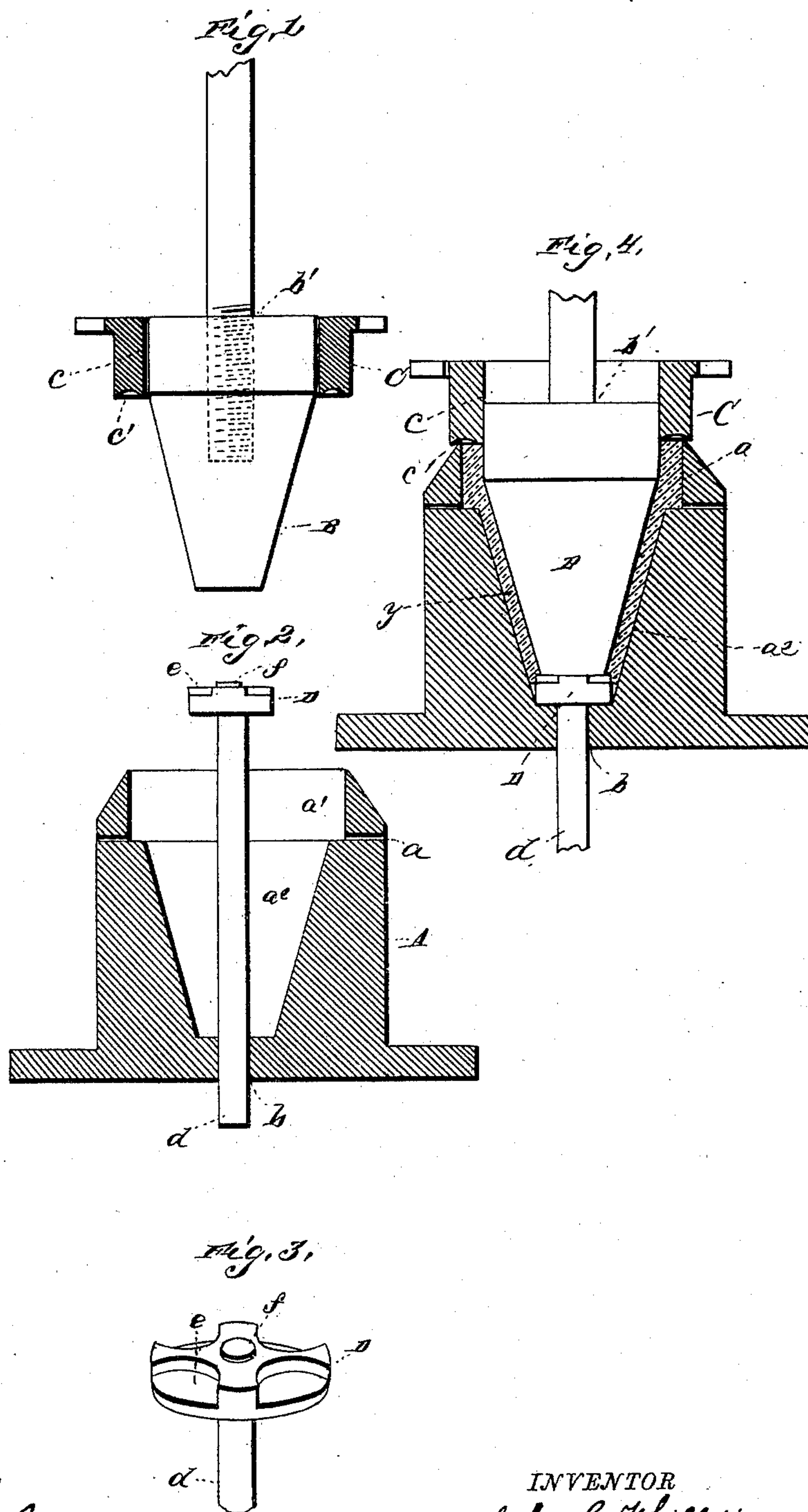


(No Model.)

J. G. WHILLDIN.  
POTTERY MACHINE.

No. 442,084.

Patented Dec. 2, 1890.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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WHILLDIN POTTERY COMPANY, OF SAME PLACE.

## POTTERY-MACHINE.

SPECIFICATION forming part of Letters Patent No. 442,084, dated December 2, 1890.

Application filed May 3, 1890. Serial No. 350,470. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN G. WHILLDIN, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Pottery-Machines; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a sectional detail showing the core and cut-off plate. Fig. 2 is a vertical section of the matrix. Fig. 3 is a detail view of the lifting die or former, and Fig. 4 is a vertical longitudinal section showing the parts in position for forming the pot.

This invention relates to certain improvements in molds for flower-pots; and it consists in the novel construction and combination of parts, as will hereinafter appear.

In the drawings, A is the matrix, in its general outline the shape of the ordinary flower-pot mold, and having, as usual, a central opening *b* in its bottom. This mold or matrix A, however, has a number of air vent apertures or holes *a* extending, preferably, horizontally from the inner bottom edge or angle of the circular enlargement *a'* of the chamber *a<sup>2</sup>* of the mold through the side of the latter. The purpose of this is to provide for the escape of the air that would otherwise naturally accumulate and be confined at that point in consequence of the action of the plunger or core upon the clay in pressing or forcing it therinto, and thus prevent, as is obvious, the defacement of the prospective vessel or pot by the action of the air.

B is the core, having a central cylindric passage or bore *b'*, partly screw-threaded to receive and effect connection with the stem, said core conforming in its general contour to the interior or chamber of the mold or matrix A.

C is the covering or cut-off plate having upon its lower side a circular or annular flange *c*, which is itself provided in its lower edge with a circular recess or cavity *c'*, receiving the upper tapered edge of the mold or matrix A, upon which the plate C rests.

D is a bottom die or lifting-former of disk form and having a downwardly-extending stem or rod *d* and adapted to rest in the bottom of the mold-chamber, its stem or rod extending through the opening *b* in said bottom. In the upper side of the die or disk D is a series of radial depressions *e*, producing upon the bottom of the pot a series of corresponding projections, imparting thereto a corrugated-like surface. In the center of the upper side of the disk or die D is a raised hub-like projection or stud *f*, adapted to form a thin place in the center of the bottom of the pot. It will be observed that dies or formers D, having variously-shaped depressions, can be employed to produce a series of any other desired shaped raised surfaces or configurations on the bottom of the pot.

The parts, together with the pot, are clearly shown in their operative position, or in that position in which final form is given to the pot in Fig. 4 of the drawings.

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

1. The flower-pot mold comprising the matrix having its chamber provided with a circular enlargement in its upper part and with a central opening in its bottom and its wall provided with air-vent apertures, the annular covering or cut-off plate having upon its under side an annular or circular flange provided itself in its lower edge with a circular recess or cavity receiving the tapered or beveled edge of said matrix, and the lifting die or former provided with a series of marginal depressions in its upper side and with a stem or rod extending from its lower side through said central opening of said matrix, substantially as and for the purpose specified.

2. The flower-pot mold comprising the matrix having its chamber provided with the circular enlargement and its wall provided with air-vent apertures or holes extending from the outer angular edge of the bottom of said enlargement and through said wall, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN G. WHILLDIN.

Witnesses:

EDWARD L. REYBOLD,  
A. M. MILLER.