

C. H. OVER, J. ROBINSON & H. FAUPEL.

Improvement in Glass-Molds.

No. 129,679.

Patented July 23, 1872.

Fig. 1.

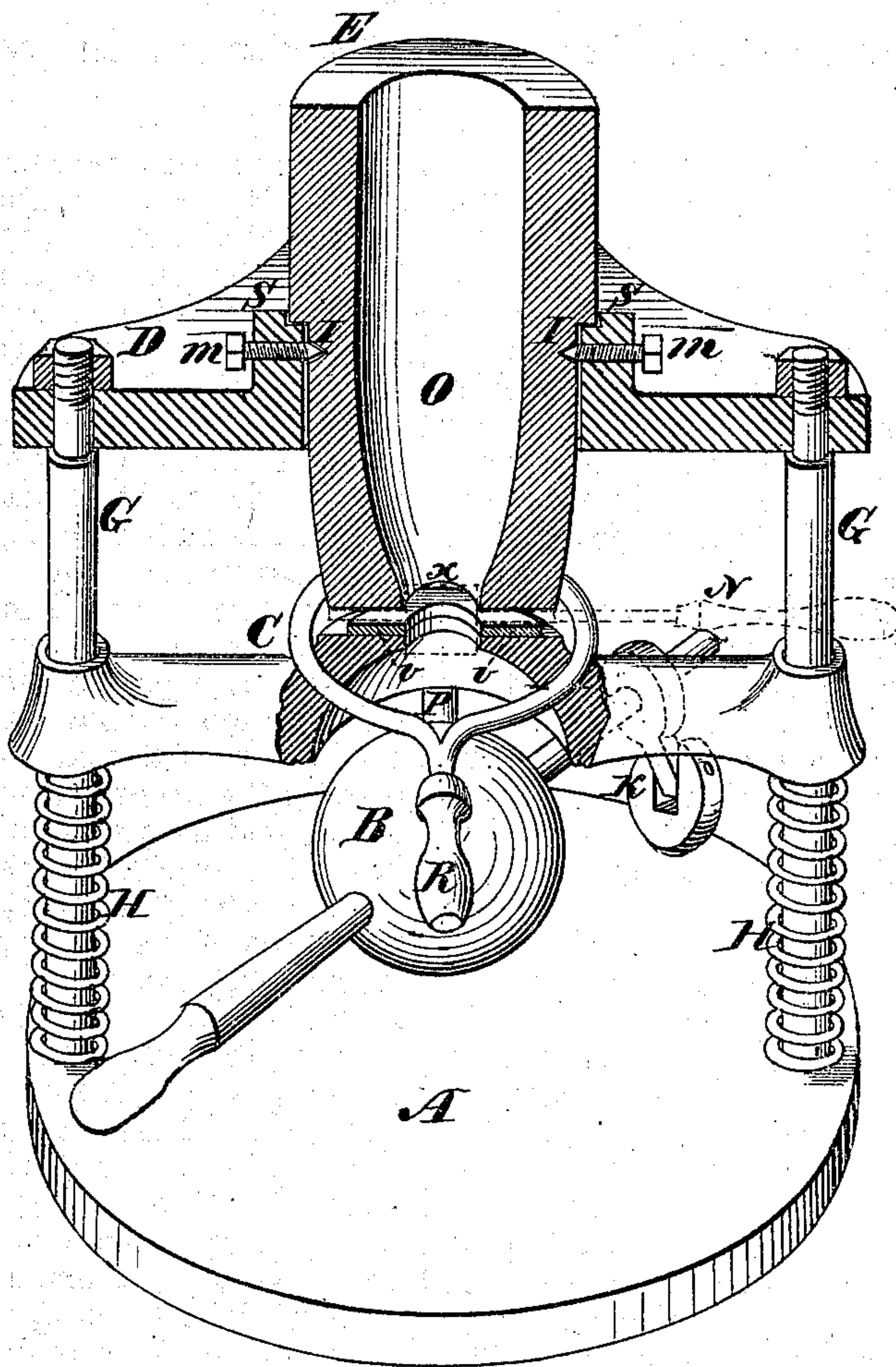
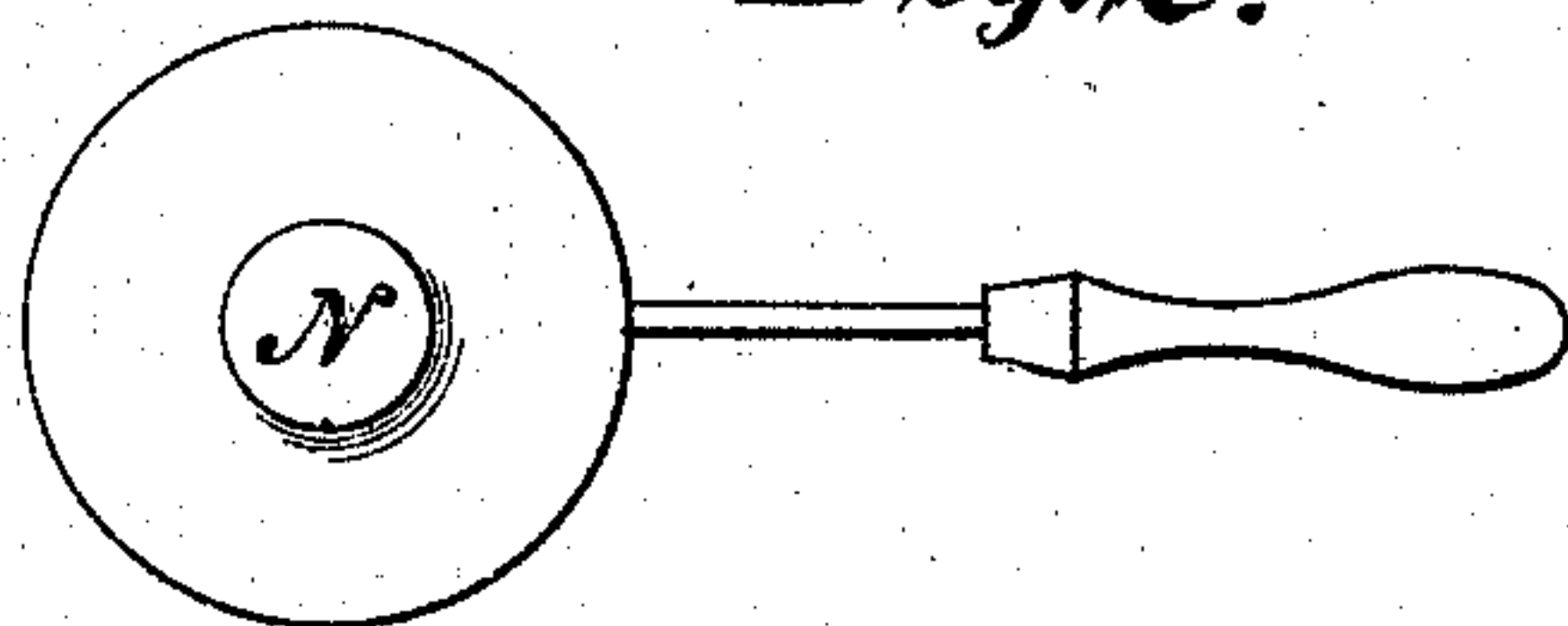


Fig. 2.



Witnesses:

Edwin J. McLean.
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Inventors

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN GLASS-MOLDS.

Specification forming part of Letters Patent No. 129,679, dated July 23, 1872.

To all whom it may concern:

Be it known that we, CHARLES HENRY OVER, JOHN ROBINSON, and HENRY FAUPEL, of Bellaire, in the county of Belmont, in the State of Ohio, have invented a new and Improved Glass-Mold; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making part of this specification and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view, as well as showing a longitudinal view of the mold, mold-rest, and blow-under box, through the line of their center.

The nature of our invention consists in furnishing a glass-mold in which lamp-chimneys, lantern-glasses, &c., can be blown without leaving the impression of the jointed-mold seam in the glass.

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

Figure 1, letter A represents the base upon which the balance of the machine is constructed. G represents the posts or standards connected with the base A, and around which the spiral springs H work. R is a lever used for operating the blow-under box C, having its fulcrum in the rear post P. C is a blow-under box, against the bottom of which, when operated, the ball-valve B is made to rest. The ball-valve stem passes through and is attached to the top of the hinged standard K. X represents the opening in the blow-under box C, and V, a steel plate fitted on its top, having a hole through its center to correspond with the opening O in the bottom of the mold E. The blow-under box C is supported by the spiral springs H, and attached through holes in its outer ends to the posts G, which furnish guides and slides for the same. D is a rest for the mold, and to which the upper ends of the posts G and P are attached, having its center formed to correspond with the shape of the mold. The mold E is constructed in one piece of metal, having a groove, I, turned in its outer surface, in which the ends of the set-screws M are inserted to hold the mold in place. S represents lugs formed on the top of rest D, through which set-screws M pass, and have

offsets formed on their tops, above the set-screws M, on which the shoulder of mold E rests. Fig. 2 represents a hand raise-plate, N, used for raising the top of the chimney when blown above the top of the mold, so that it may be lifted from the mold. The dotted lines N, Fig. 1, show the raise-plate when in place. Instead of the raise-plate N being used, a stem the diameter of the opening in the bottom of the mold E may be inserted in one side of the ball-valve B, and used to press up the glass in the mold.

It will be observed that when the top of the blow-under box C, by means of the spiral springs H, is placed against the bottom of the mold E, and the ball-valve B held up against the bottom of the blow-under box C, then, by placing the prepared molten glass in the opening O, and the pressure through the blow-pipe in the hands of the workman is exerted on the inside of the glass bulb, the glass will assume the shape of the opening O through its entire length, and extend through into the opening X in the blow-under box C; then by dropping the ball-valve B, relieving the bottom of the blow-under box C, and a slight, quick pressure on the lever R, the glass will be separated at the bottom of the mold E, that portion in the blow-under box C dropping out, and by inserting the hand raise-plate in the top of the blow-under box C, and bringing it up against the bottom of the mold E, the top of the glass in the mold will be raised above the top of the mold, when the glass may be lifted from its place, leaving the apparatus clear for the operation to be repeated.

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

1. The blow-under box C, in combination with the mold E.
2. We claim the lever R, ball-valve B, and spiral springs H, in combination with the blow-under box C.
3. We claim the hand raise-plate N, as and for the purposes set forth.

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Witnesses:

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