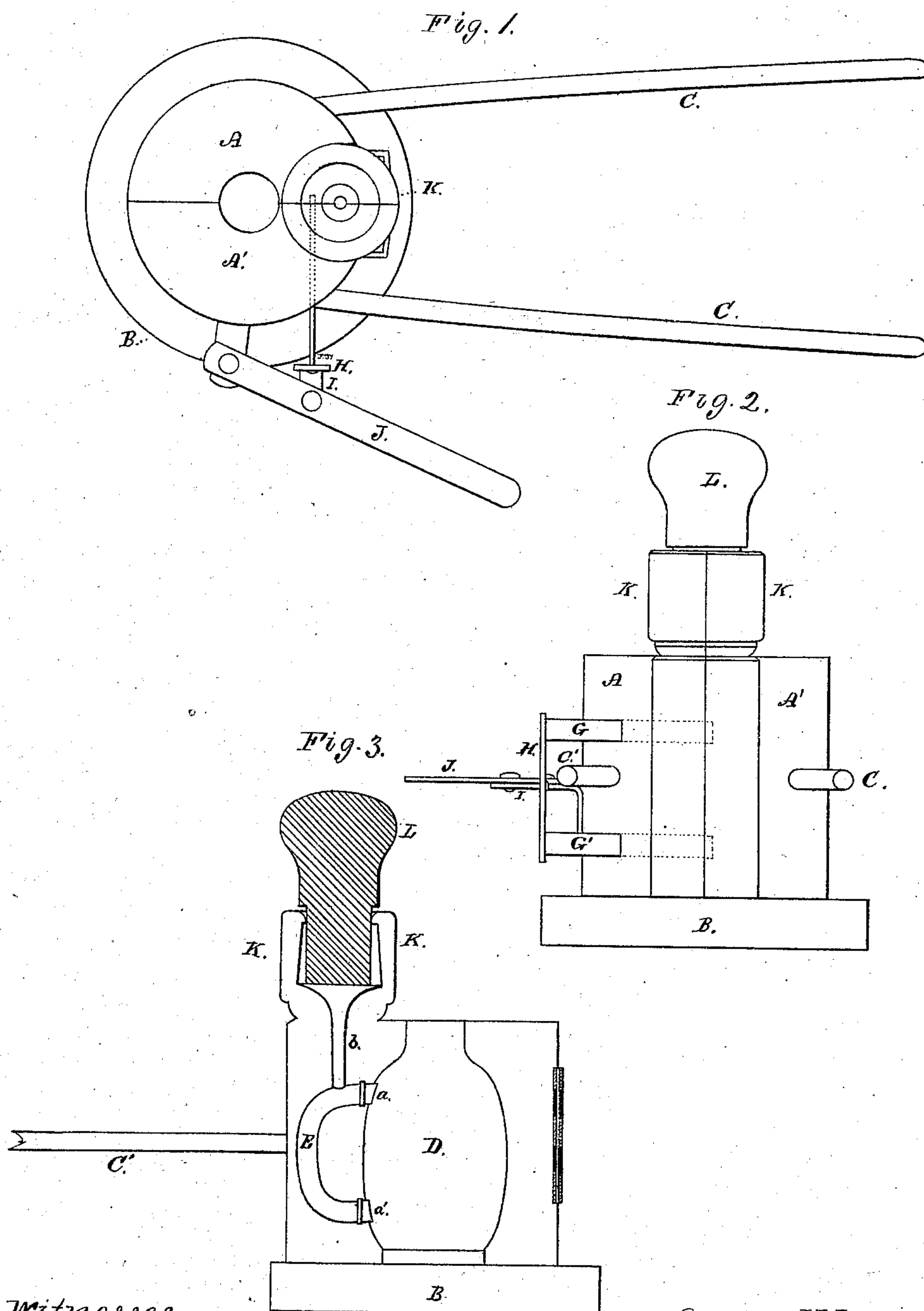


G. H. LOMAX.
Molds for Glassware.

No. 143,629.

Patented Oct. 14, 1873.



Witnesses

Geo. Gray
 J. C. Hale.

George H. Lomax.

by his attorney.

J. P. Hale

UNITED STATES PATENT OFFICE.

GEORGE H. LOMAX, OF SOMERVILLE, MASSACHUSETTS.

IMPROVEMENT IN MOLDS FOR GLASSWARE.

Specification forming part of Letters Patent No. **143,629**, dated October 14, 1873; application filed July 30, 1873.

To all whom it may concern:

Be it known that I, GEORGE H. LOMAX, of Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Molds or Apparatus for Forming "Blowover" Glassware with Handles, of which the following is a specification, the accompanying drawings forming a part thereof.

In said drawings, Figure 1 is a top view of a mold or apparatus constructed in accordance with my invention, the plunger being removed. Fig. 2 is a front view, and Fig. 3 an elevation, of one-half of the apparatus, or that provided with the gates for closing the handle-forming matrix while the body of the article is being blown, the two latter figures showing the plunger in position for forcing the glass into the handle-matrix.

The object of my invention is to provide a more simple, cheap, and effective method or process of forming blowover glassware with handles than heretofore employed, my invention enabling a green hand or person unskilled in the art to which it appertains to form and affix more perfect and uniform handles upon pitchers, lamps, and other glass articles than can the most skillful workman by the method now commonly employed; and my invention consists in combining with the main matrix of the mold, or that in which the body of the article is to be formed, a separate handle-forming matrix and press, by which, after the body of the article is formed, the handle is molded and affixed to the body portion.

In the drawing, A A' denote the two halves or parts of the mold, hinged together and mounted upon a base, B, in the ordinary manner. C C' are handles for opening and closing the parts. D represents one-half of the matrix for forming the body of the article, the other part corresponding therewith, with the exception of the gates. Within the shell of the mold is the handle-forming matrix E, one-half of such being made in each half of the mold, and opening into the main matrix by two mouths, *a a'*, which are, respectively, provided with gates G G', by which communication with the body matrix may be cut off, as occasion may require. These gates extend transversely through one-half of the mold, and are connected to an upright bar, H, which,

by means of an arm, I, is pivoted to a lever, J, by which the gates may be either opened or closed, as may be desirable. K is an auxiliary font or glass-receiving chamber, mounted upon the top of the mold, such font having an opening or passage through its bottom, and communicating, by a channel, *b*, with the handle-forming matrix, as shown in Fig. 3. The chamber K is provided with a plunger or presser, L, by which the molten glass, after having been poured into the chamber, is pressed into the handle-forming matrix, so as to form the handle, and cause the ends thereof to so impinge against the body of the article as to be firmly affixed thereto. This employment of the presser or plunger insures a perfect formation of the handle, and a strong and positive fixation of it to the body portion.

Having described the construction of my invention, its operation is as follows: The gates G G' are first to be closed to shut off the communication between the body-matrix and the handle-matrix. The glass-blower, having collected on the end of his rod or blow-pipe a sufficient quantity of molten glass to form the body of the article, and having manipulated, marred, and treated it in the ordinary manner, places the same in the body-matrix and closes the parts of the mold, and next inflates the glass and forms the body-portion of the article, in the usual manner. This having been effected, he immediately opens the gates and pours into the font or press chamber a sufficient quantity of glass in a molten state to form the handle of the article. This having been done, he puts the plunger into the press-chamber and forces the glass into the handle-forming matrix, and the end portions thereof firmly into contact with the outer surface of the formed body, whereby a strong and fixed union of the two is effected.

Having described my invention, what I claim is—

In a mold or apparatus for producing blowover glassware the combination, with the body-matrix, of the font or chamber K, presser L, and the handle-matrix provided with gates, substantially as described.

GEORGE H. LOMAX.

Witnesses:

F. P. HALE,
F. C. HALE.