

(No Model.)

G. W. YOST.

FINISHING THE MOUTHS OF GLASS BOTTLES AND SIMILAR ARTICLES.

No. 306,670.

Patented Oct. 14, 1884.

Fig. 1.

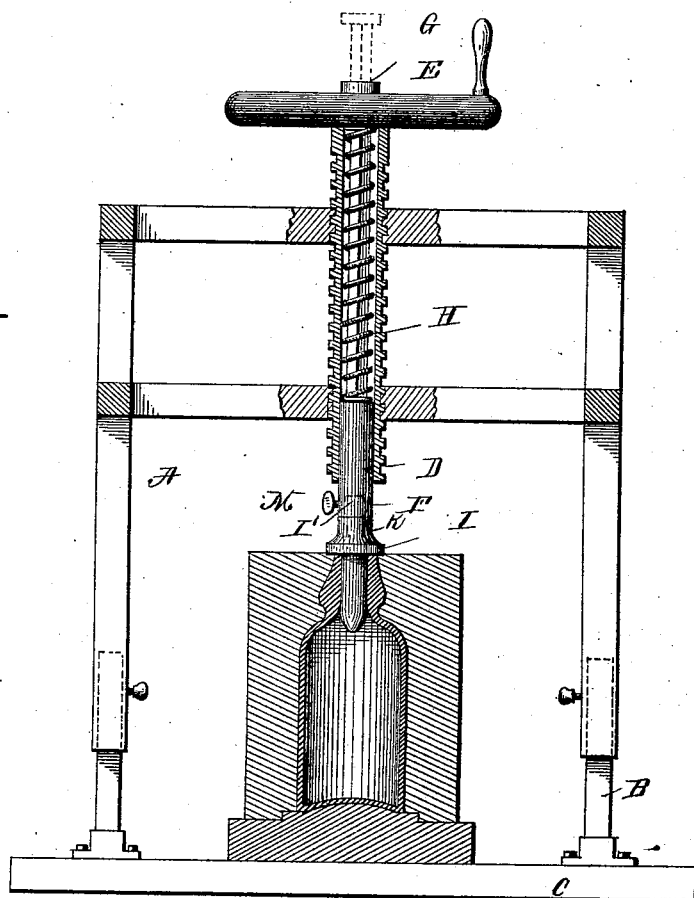
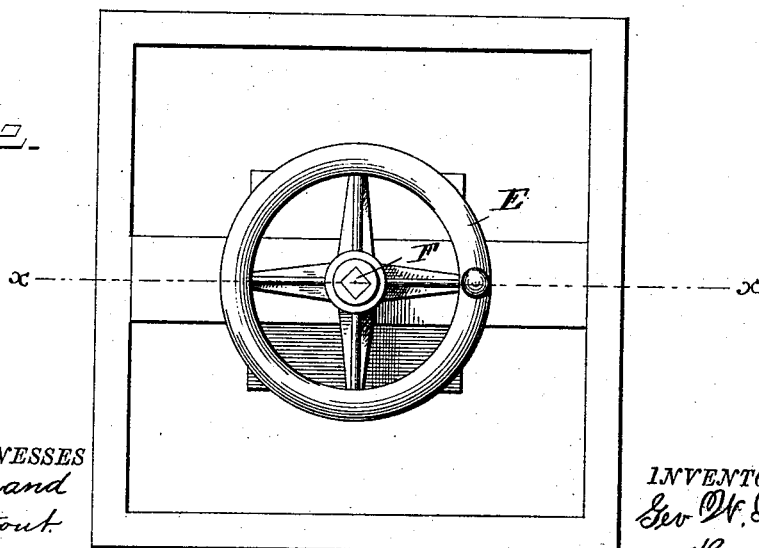


Fig. 2.



WITNESSES
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GEORGE W. YOST, OF BELLAIRE, OHIO.

FINISHING THE MOUTHS OF GLASS BOTTLES AND SIMILAR ARTICLES.

SPECIFICATION forming part of Letters Patent No. 306,670, dated October 14, 1884.

Application filed June 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. YOST, a resident of Bellaire, in the county of Belmont and State of Ohio, have invented certain new and useful Improvements in Finishing the Mouths of Glass Bottles and Similar Articles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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.

This invention relates to certain improved means for finishing the mouths of glass bottles and other similar articles before they are removed from the mold; and it has for its object to save the labor and expense of handling and finishing the article heretofore incurred in removing it from the mold, reheating it, and finishing by hand.

The above-mentioned object I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a vertical sectional view of the device which I employ in carrying my invention into effect, and Fig. 2 a top view of the same.

The letter A indicates a rectangular frame which supports the working parts of the device. The said frame is adjustably secured to the vertical standards B, mounted on a base or platform, C, so that it may be raised or lowered to accommodate different-sized molds.

The letter D indicates a tube or sleeve screw-threaded externally, and working through screw-threaded apertures in the cross-beams of the frame A. To the upper end of said tube or sleeve is secured a hand-wheel, E, by which it may be rotated, so as to be moved up or down.

The letter F indicates a plunger which passes up through the tube or sleeve, the upper portion or stem of which is rectangular in cross-section, and works through a similarly-shaped opening in the hand-wheel, as indicated by the letter G in dotted lines. Around the rectangular stem, within the tube or sleeve,

is a spiral spring, H, which presses the plunger normally downward. To the lower end of the plunger is attached a finishing-tool, K, adapted to fit into the neck of the bottle or other article in the mold, and is formed with a shoulder, I, which presses and is rotated against the mouth of the bottle during the finishing operation. M is a set-screw for securing the finishing-tool to the plunger. The upper end of the finishing-tool is provided with a plug, I', which fits into a socket in the under side of the plunger. The plunger has a side screw-threaded opening communicating with the socket for the reception of the set-screw, whereby the tool may be attached to and removed from the plunger.

The operation of my invention is as follows: When the article is blown in the mold and before it gets cold, the plunger is run down into its neck, while it is in the mold, as far as desirable, by means of the spiral spring and the rotary movement of the threaded tube or sleeve. When the shoulder on the plunger reaches the mouth of the article, the plunger continues to rotate without advancing farther into the neck of the article, thus polishing and smoothing off the "blow-over" and finishing the mouth.

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

The combination, with the adjustable frame and base, of the externally-screw-threaded sleeve and hand-wheel, the internal plunger having a rectangular stem passing through a similarly-shaped aperture in the hand-wheel, and shaped at its lower end to form and finish the mouth of the article, and the spiral spring surrounding said stem, the whole arranged to operate substantially as specified.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

GEO. W. YOST.

Witnesses:

HENRY MORRIS,
S. L. STOUT.