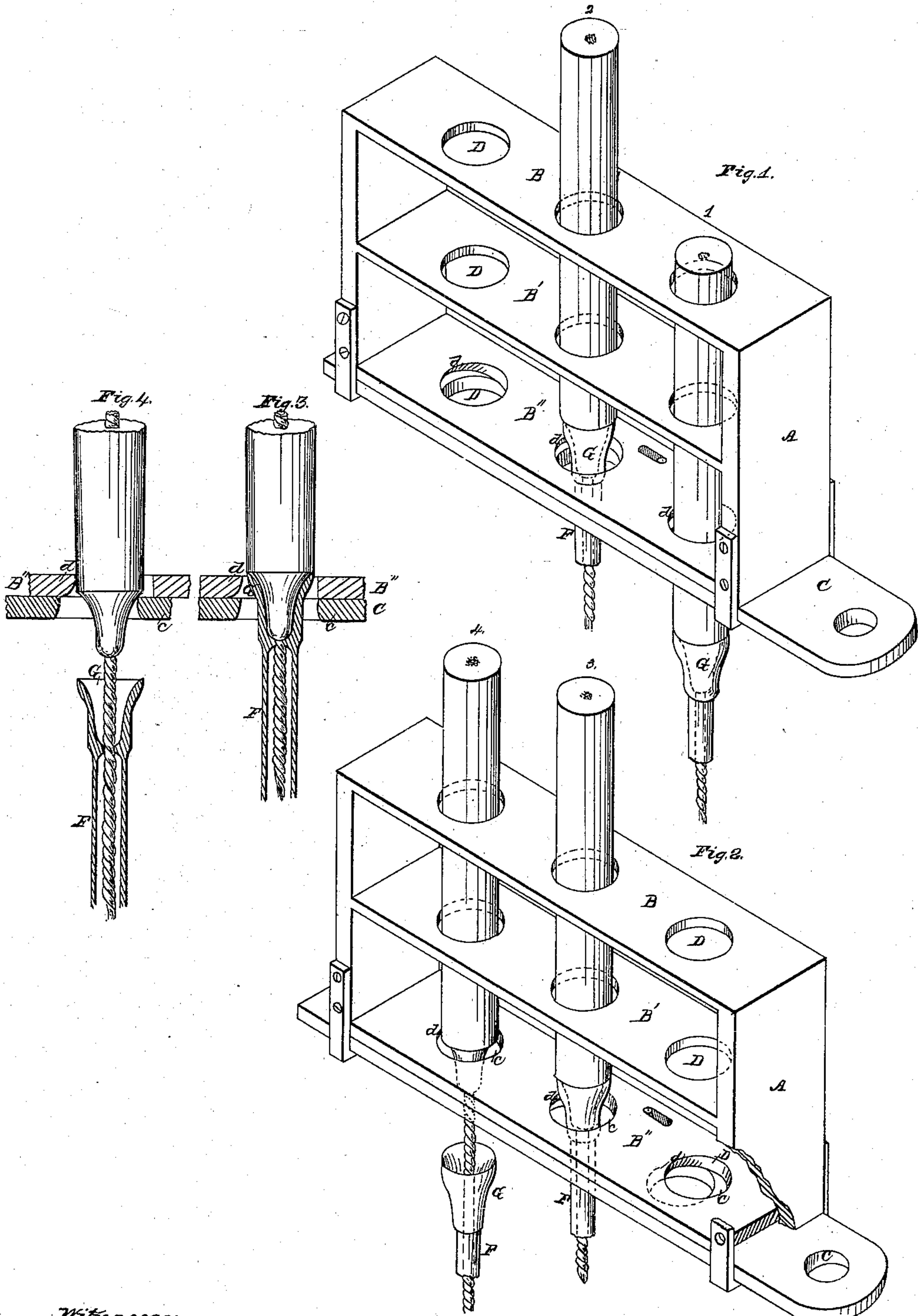


G. ROTH.  
CANDLE MOLDING MACHINE.

No. 36,798.

Patented Oct. 28, 1862.



Witnesses:  
J. J. Melcher  
J. J. Perry.

Inventor:  
G. Roth  
Per Knight Pro.

# UNITED STATES PATENT OFFICE.

GREGORY ROTH, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND  
HENRY HOMAN.

## IMPROVEMENT IN CANDLE-MOLDING MACHINES.

Specification forming part of Letters Patent No. 36,798, dated October 28, 1862.

*To all whom it may concern:*

Be it known that I, GREGORY ROTH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Machines for Molding Candles; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification.

This improvement relates to that part of a candle-molding apparatus which acts to hold the batch of finished candles during the operation of casting the succeeding batch; and my invention consists in a provision for enabling the use in such connection of a tip-mold corresponding to the entire tip of the candle, in combination with a set of undivided racks.

Figures 1 and 2 represent, respectively, the opened and closed conditions of the rack. Figs. 3 and 4 represent by vertical section the opened and closed conditions of the lower rack-plates.

A is a rack-frame containing three horizontal stationary rack-plates, B B' B'', and a movable rack plate or slide, C, capable of a slight longitudinal movement. Each plate B B' B'' C is pierced with a number of equal and equidistant circular apertures, D, slightly larger than the candles. Of these the apertures in the plate B'' are on one side, *d*, flared downward, to facilitate the descent of the tip-mold,

while the portion *c* of the slide C acts, in conjunction with the stationary racks, to detain the candle without compressing the sides thereof.

Operation: The slide being in the position indicated in Fig. 1, the batch of candles just molded is pushed up by the pistons F G through the several racks C B B' B'' to the position 2 in Fig. 1. The slide C is then shifted to the position shown in Figs. 2 and 4, and the gang of pistons being at the same instant retracted, the candles are detained by the portions *c* of the slide C, and act to center the wicks for the next batch.

This contrivance, while it obviates the objectionable two-part clamp, allows of an undivided rack and of a tip-mold, G, whose cup or cavity being of the full size of the candle imparts a complete mold-finish to the candle-tip.

I claim herein as new and of my invention—

The arrangement of the stationary perforated racks B B' B'' and the perforated slide C, adapted to retain and center the candle while permitting the descent of a full-sized tip-mold, substantially as set forth.

In testimony of which invention I hereunto set my hand.

G. ROTH.

Witnesses:

GEO. H. KNIGHT,  
H. HOMAN.