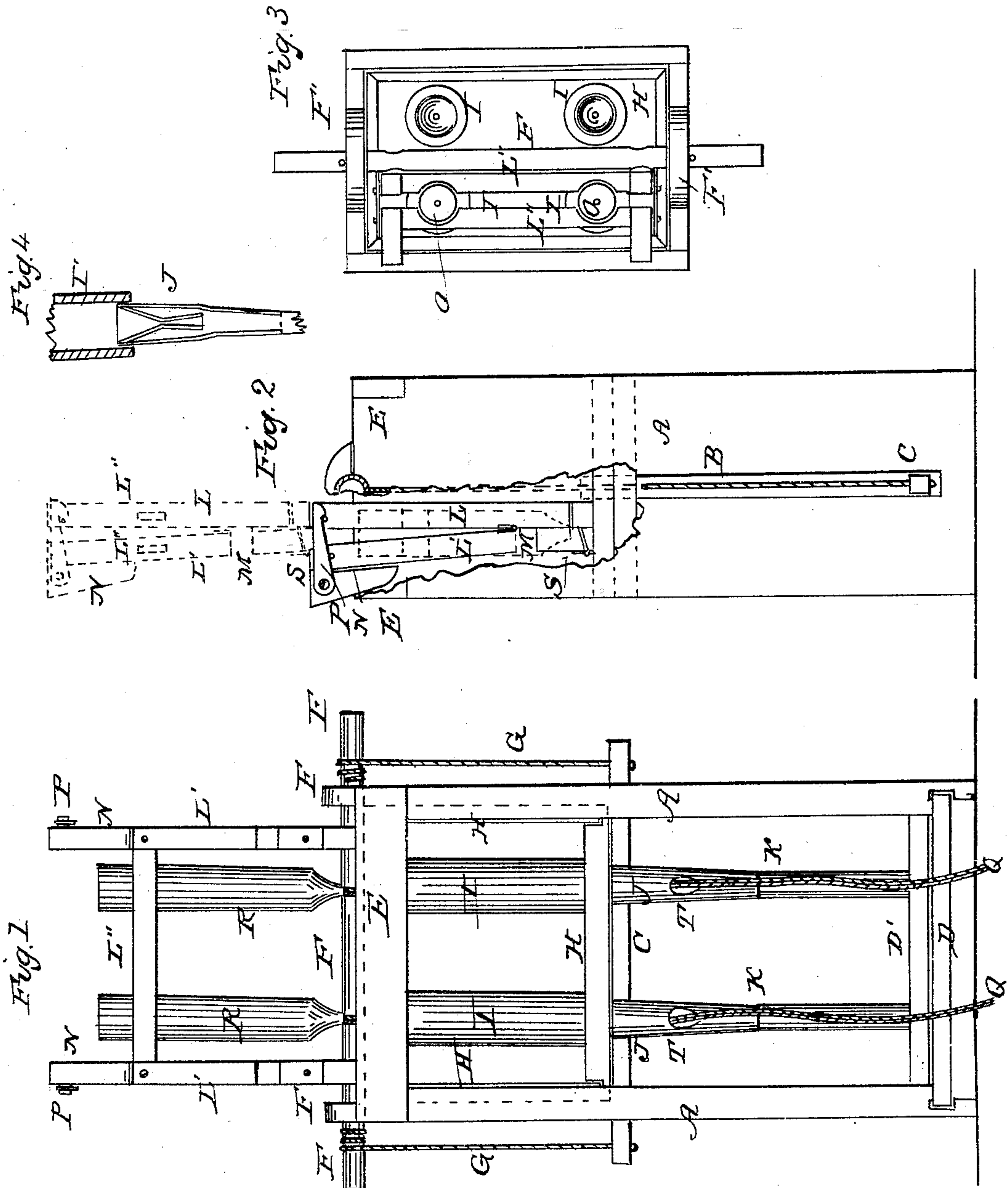


G. A. STANLEY.
Molding Candles.

No. 24,960.

Patented Aug. 2, 1859.



Witnesses
W. H. Burdick
J. C. Smith

Inventor
G. A. Stanley

UNITED STATES PATENT OFFICE.

GEORGE A. STANLEY, OF CLEVELAND, OHIO.

MACHINERY FOR MOLDING CANDLES.

Specification of Letters Patent No. 24,960, dated August 2, 1859.

To all whom it may concern:

Be it known that I, GEORGE A. STANLEY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful
5 Improvements in Candle-Molds; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making
10 part of this specification, in which—

Figure 1 is a front view of the frame and mold. Fig. 2 is a side view. Fig. 3 is a top view, and Fig. 4, a detached part.

The frame consists of two side pieces A A, the edges of which are seen in Fig. 1. In the lower half of each of these is a slot B, seen in Fig. 2, in which the ends of the sliding bar C, moves up and down. The bottom boards D D' hold the side pieces at
15 a proper distance from each other, at the base, and the girths E E, at the top, serve the same purpose.

Upon the top of the frame A E D, is placed a windlass F, secured by boxes F'.
25 The ends of this windlass project some six or eight inches outside of the frame, and around each of these projecting ends, is wound a cord G G, which passes down, and takes hold of the ends of the sliding bar C.
30 The sliding frame H, rests upon the sliding bar C, and moves up and down with it, from C Fig. 2 to C Fig. 1. The frame H supports the candle molds I, which move up and down with it; the distance passed through, being
35 equal to the length of the molds. The molds I consist each, of a hollow metallic cylinder, a trifle larger at the upper than at the lower end, as seen at I' Fig. 4. The lower end, or that which forms the tip of the candle is
40 closed by the tip mold J, whose external diameter just equals the interior diameter of the mold I at I' Fig. 4. This tip mold is supported upon a stand K, of less diameter than the base of the mold I. The stand K
45 is of length equal to the mold, and resting upon and being firmly attached to the base board D' becomes entirely inclosed within the mold I, whenever the frame H, is suffered to descend to the position of C in Fig.
50 2, and consequently if the mold contains a candle remains, or rather stands in the tip J, while the mold descends.

To the top of the sliding frame H, is attached a clutch L L', which consists of two

standards L, L', at each end of the frame. 55
The standard L' is hinged to the standard L, as seen at M Fig. 2. The jaws L'' are two in number, and one of them being connected to the standard L, and the other to the clutch L'. Upon the outside of the upper
60 end of the clutch L' is a cam N which comes in contact with the inside of the girth E, the standard L, being at the same time in contact with the windlass F, which causes the jaws L'' L'', to approach each other, as the
65 sliding frame, molds and clutch descends, the jaws pass upon each side of the candles that have been left standing upon the tips J, by the descent of the molds; and the frame H, as it arrives at the bottom of the
70 frame A D E by its own gravity, compresses the jaws upon the upper and large end of the candles, as seen at O, Fig. 3, and are held in this position by the ketch P Fig. 2. Now
75 if the windlass F is turned, and the frame H and molds I elevated to the position seen in Fig. 1, the wicks being continuous, are drawn by the elevation of the molds I, into the center of the molds I, the lower end being closed by the tip mold J, the molds are
80 again ready to be filled. The candles R are removed, by turning the whole clutch forward to the line S' upon the hinge S. The weight of the frame H, and molds, will be
85 generally found sufficient to discharge the candles from the molds, and secure them in the jaws of the clutch L L'. The wicks pass into the mold through an opening in the side of the tip mold as seen at T.

What I claim as my invention and desire to secure by Letters Patent, is—

1. The moving of the molds any distance lengthwise of the candles, to detach the molds from the candles formed in them, and to withdraw the molds from the candles, and
95 place the jaws of the clutches around them.

2. Moving the molds, by the weight of the molds and boxes containing the molds, to adjust the jaws of the clutches to the candles, and attach the clutches firmly to the
100 candles, so that they may be raised at the same time at which the molds are returned empty to their first position.

GEO. A. STANLEY.

Witnesses:

W. H. BURRIDGE,
H. VOTH.