

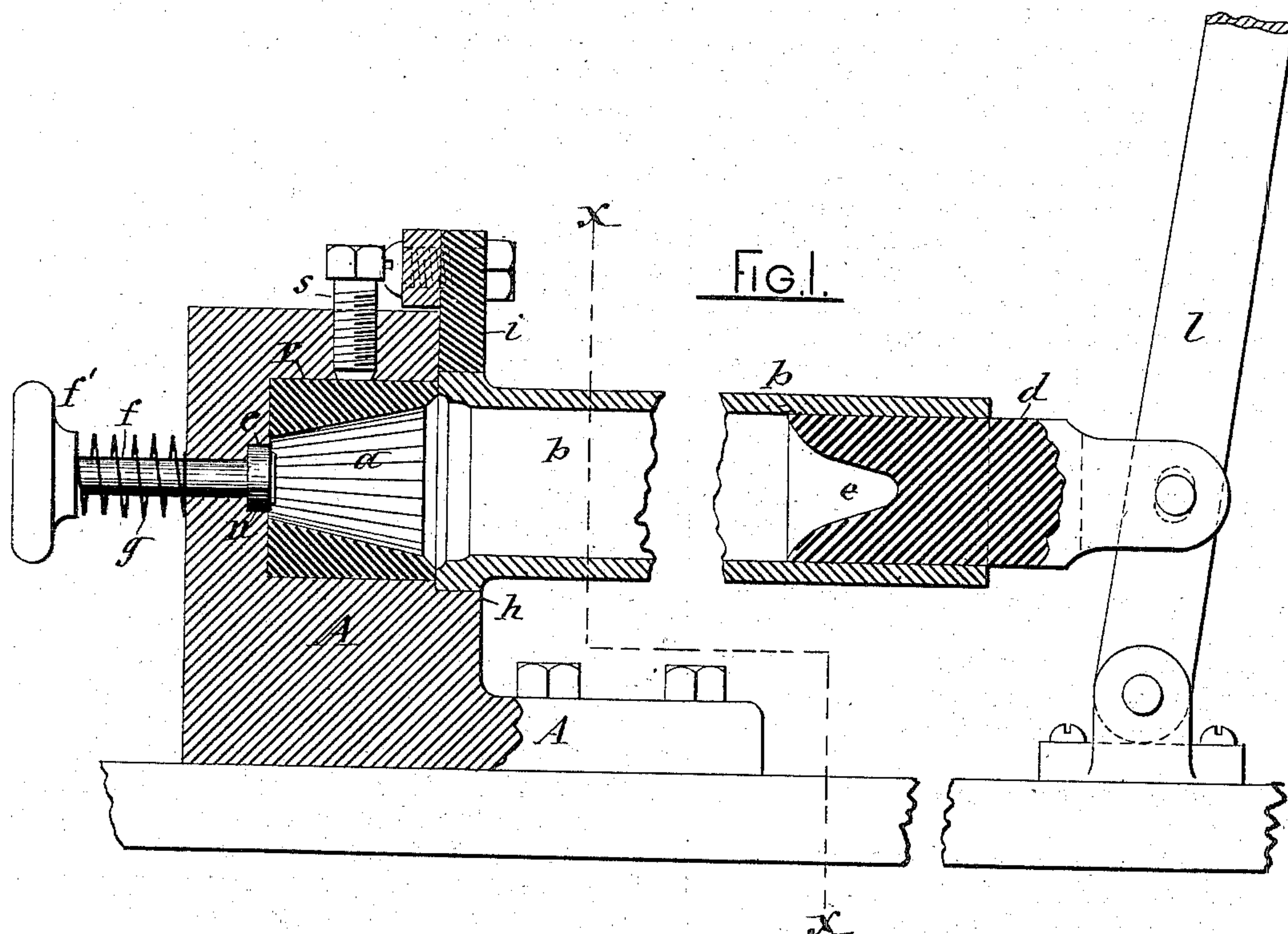
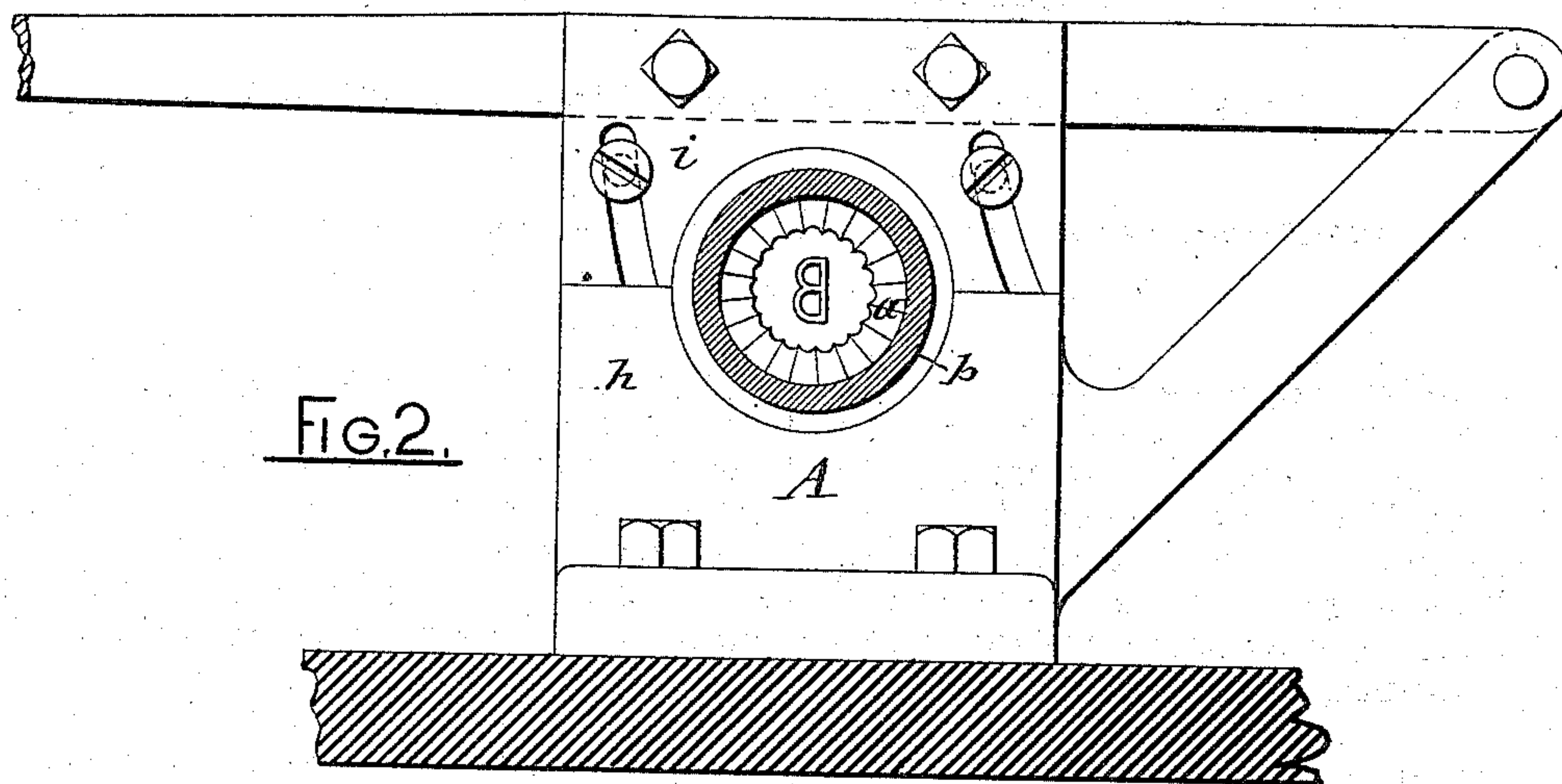
(No Model.)

A. F. BAUMER.

APPARATUS FOR SHAPING AND FINISHING CANDLES.

No. 330,200.

Patented Nov. 10, 1885.



Witnesses.

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per Quill, Laass & Key
his Atty's. —

UNITED STATES PATENT OFFICE.

ANTON F. BAUMER, OF SYRACUSE, NEW YORK.

APPARATUS FOR SHAPING AND FINISHING CANDLES.

SPECIFICATION forming part of Letters Patent No. 330,200, dated November 10, 1885.

Application filed July 10, 1885. Serial No. 171,202. (No model.)

To all whom it may concern:

Be it known that I, ANTON F. BAUMER, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and
5 useful Improvements in Apparatus for Shaping and Finishing Candles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

10 The purpose of this invention is to apply the final shape and finish to the exterior, and more particularly to the ends, of candles molded or otherwise formed approximately to shape, and to accomplish said purpose in an
15 expeditious and perfect manner, and at a minimum cost of manual labor; and to that end my invention consists, essentially, in an apparatus comprising a tubular holder for embracing the body of the candle, a die at
20 one end of said holder, and a plunger at the opposite end of the same, whereby the candle is compressed endwise between said die and plunger, which impart the final shape and finish to the ends of the candle, and at the
25 same time expand the candle circumferentially in the tubular holder, which straightens, smoothes, and finishes the exterior of the body of the candle; and the invention also consists in certain auxiliary devices connected
30 with the aforesaid apparatus, as hereinafter more fully described, and specifically set forth in the claims.

In the annexed drawings, Figure 1 is a longitudinal section of my invention, with a
35 part broken away for want of room to show the entire length of the apparatus; and Fig. 2 is a transverse section of the same, taken on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

40 *A* represents the frame of the apparatus, consisting, essentially, of a metal block or wall secured, preferably, in an upright position on a suitable table or work-bench. The front
45 of said frame (which is the side presented in Fig. 2 of the drawings) is provided with a mortise or recess, *r*, in which is seated removably a die, *a*, secured therein by a set-screw, *s*, as shown in Fig. 1 of the drawings.
50 This permits of the use of interchangeable

dies of different sizes and shapes. The inner face of this die may be of any configuration according to the finish desired on the foot or bottom portion of the body of the candle; but I prefer to taper and corrugate it longitudinally, as shown, as such a form on the candle
55 adapts it to be applied to different-sized candlesticks and affords a secure hold for the candle. At the inner end of the die *a* is a die, *c*, seated in a recess, *n*, in the frame *A*,
60 and adapted to enter the die *a*.

To the die *c* is attached a plunger-rod, *f*, which projects through the back of the frame *A*, and is provided at its rear end with a knob or suitable handle, *f'*, against which to apply
65 the pressure or stroke required to force the die *c* forward into the die *a*. A spring, *g*, interposed between the knob *f'* and back of the frame yieldingly retains the plunger and its die *c* in their normal positions.
70

b denotes a tubular holder for embracing the body of the candle. Said holder is finished internally according to the final shape and finish to be imparted to the body of the candle. On the front of the frame is a guide,
75 *h*, for supporting one end of the holder *b* in front of and in range with the die *a*, and over the guide *h* is a gate, *i*, which is shaped to stride the upper portion of the end of the holder and retain the same in its aforesaid
80 position, the holder *b* being removable by raising the said gate.

In the opposite end of the holder *b* slides a plunger, *d*, the inner end of which carries a die, *e*, which may be either integral with the
85 plunger, as shown, or consist of a separate piece attached to the plunger. The die *e* is concave, to produce the usual taper on the top of the candle. The plunger may be either driven in or forced in by a lever, *l*, as represented in Fig. 1 of the drawings.
90

The operation of the described apparatus is as follows: The holder *b* being removed from the frame *A*, the candle is introduced into the said holder, then the holder is placed
95 endwise against the frame *A* and held in position between the guide *h* and gate *i*, then the plunger *d* is forced into the holder to press the ends of the candle into the dies *a* and *e* and expand the candle circumferentially in the
100

holder, thereby imparting the final shape and finish to the candle. Then the gate *i* is raised, the holder *b* withdrawn from the frame *A*, and if the candle adheres to the die *a* it is forced out of the same by pressing inward the plunger *f*, which, by means of the die *c*, pushes the candle out of the die *a*.

The face of the die *c* may carry either the number indicating the size of the candle or the trade-mark or other private mark, either in cameo or intaglio, as shown at B, Fig. 2. of the drawings, to imprint the same on the foot of the candle.

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

1. An apparatus for shaping candles, comprising a tubular holder for embracing the body of the candle, a die at one end of said holder, and a plunger in the opposite end of the same, substantially as set forth and shown.

2. The combination of the tubular candle-holder, dies at opposite ends of said holder, and a plunger carrying one of said dies, as and for the purpose specified.

3. The combination of the tubular candle-holder, a conical die at one end of said holder, a die at the end of the conical die, and a plunger in the opposite end of the holder.

4. The combination of the tubular candle-holder, a conical die at one end of said holder and corrugated longitudinally to taper and corrugate the foot of the candle, a concaved die in the opposite end of the holder to taper the top of the candle, and a plunger carrying

one of said dies, substantially as set forth and shown.

5. The combination, with the tubular candle-holder, of plungers at opposite ends thereof, as set forth and shown.

6. The combination of the stationary die *a*, the tubular holder *b*, removably applied to the end of said die, the die *c* at the opposite end of the die *a*, the plunger *d* in the holder, and the die *e* on the inner end of the plunger, substantially as described and shown.

7. The combination of the stationary die *a*, the tubular holder *b*, the die *c* at one end of said holder, plunger *f*, attached to said die, the spring *g*, for holding said plunger in its normal position, the die *e* in the opposite end of the holder, and the plunger *d*, carrying said die, substantially as set forth and shown.

8. The combination of the frame *A*, the die *a*, seated in said frame, the guide *h* and gate *i* on one side of said frame, the die *c* on the opposite side of the same, the tubular holder *b*, having one end seated removably between the guide *h* and gate *i*, and the plunger *d* in the opposite end of the holder, substantially as described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 7th day of July, 1885.

ANTON F. BAUMER. [L. S.]

Witnesses:

C. H. DUELL,

E. C. CANNON.