

(No Model.)

L. HOMAN.  
CANDLE MOLDING MACHINE.

No. 333,013.

Patented Dec. 22, 1885.

FIG. 1.

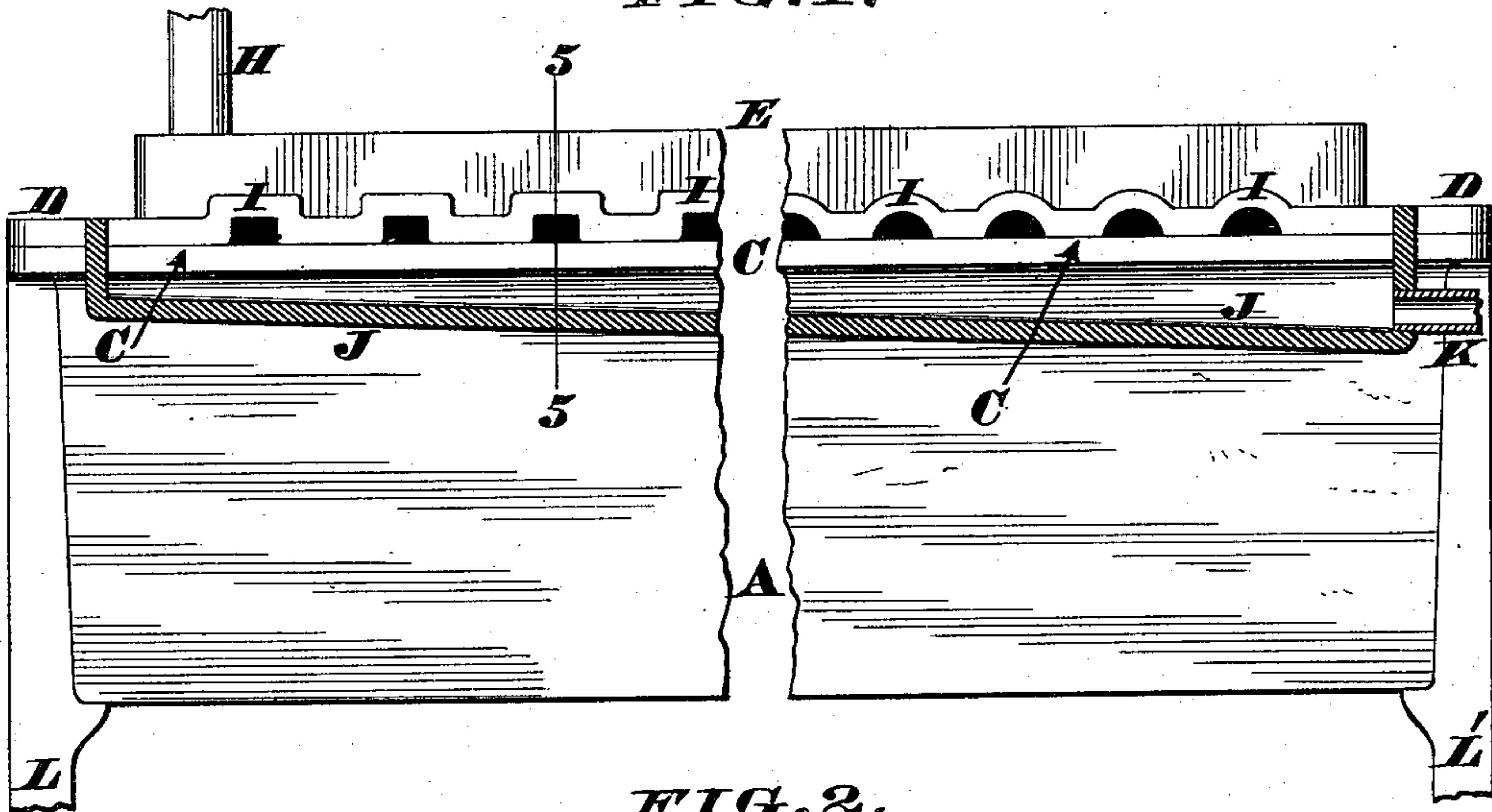


FIG. 2.

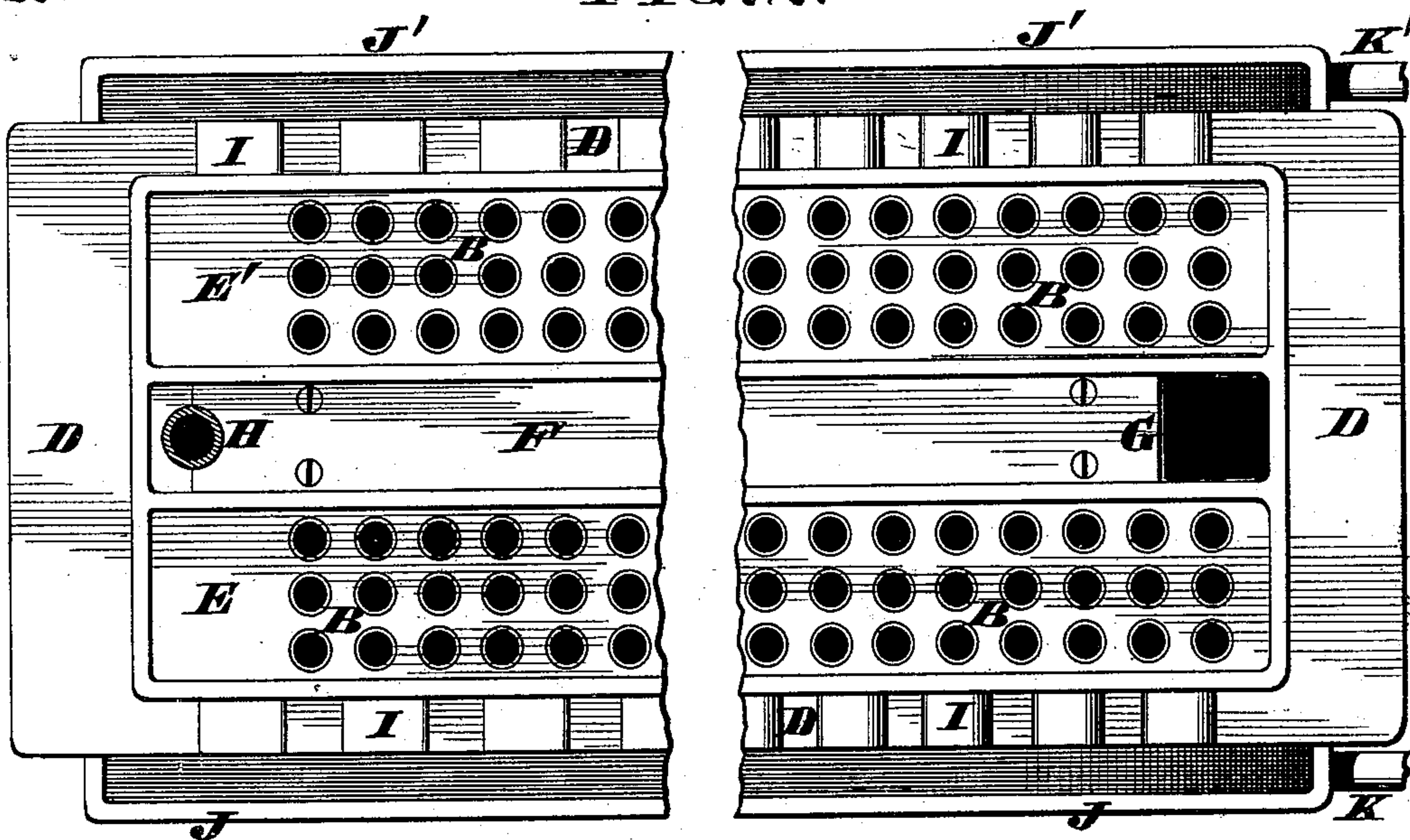


FIG. 3.

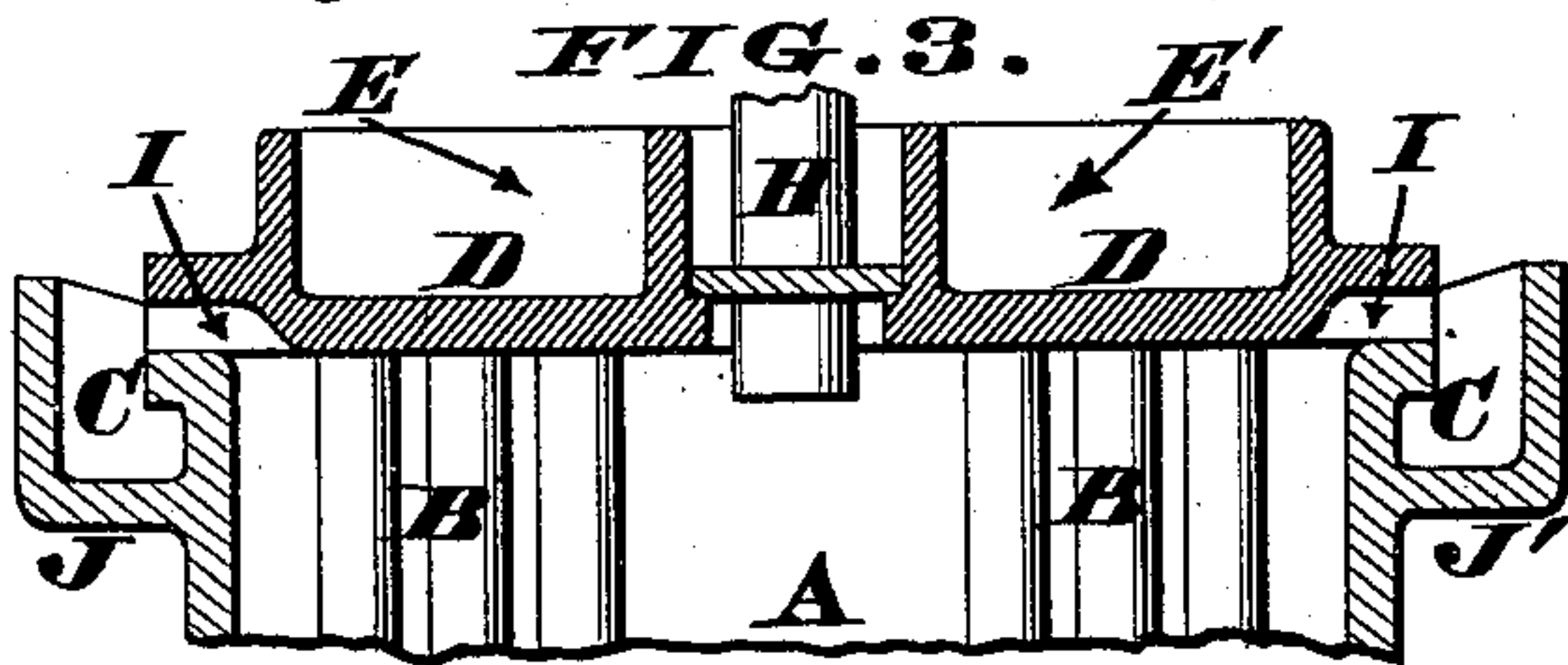
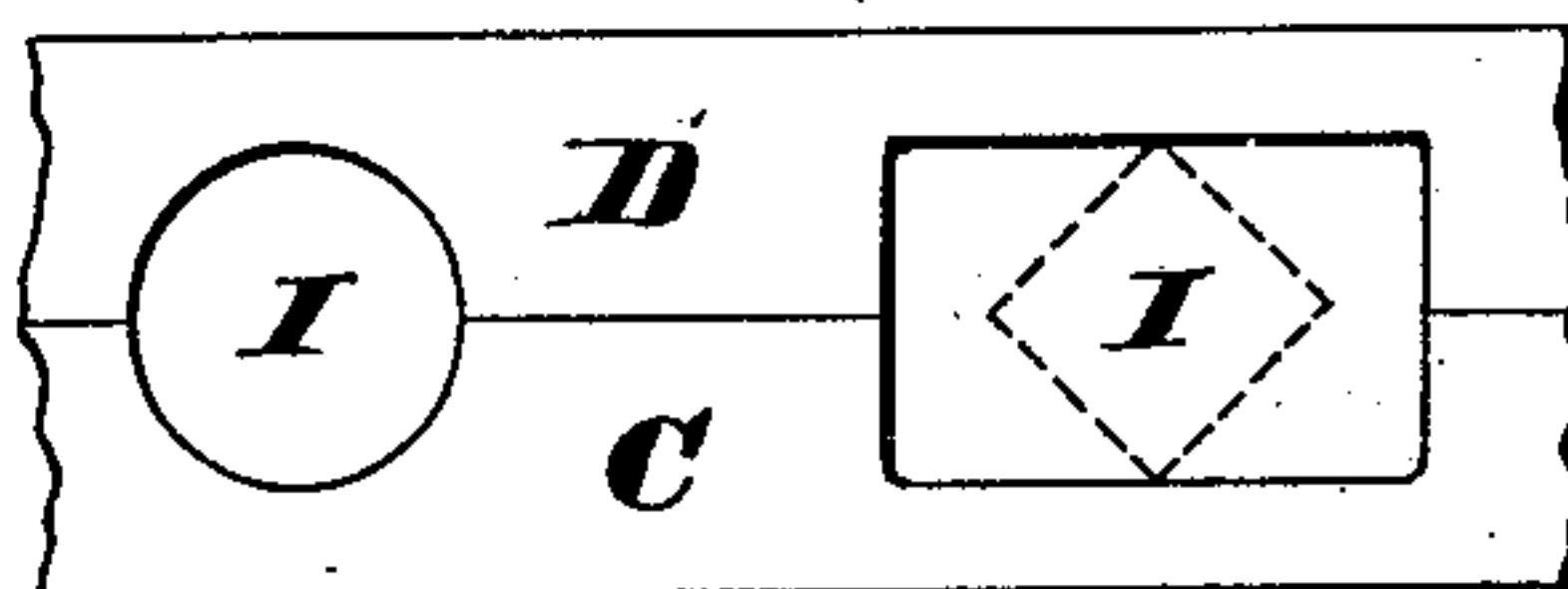


FIG. 4.



Attest.  
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# UNITED STATES PATENT OFFICE.

LOUIS HOMAN, OF CINCINNATI, OHIO.

## CANDLE-MOLDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 333,013, dated December 22, 1885.

Application filed September 12, 1885. Serial No. 176,891. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS HOMAN, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Candle-Molding Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The object of my invention is to insure a thorough, rapid, and uniform cooling of candles after they have been run into the molds, which latter are arranged vertically within an ordinary box or chest having at top one or  
15 more channels, into which the stock is poured preparatory to entering said molds.

The improvement consists in providing the upper portion of the mold box or chest with a series of ports that permit the ready escape of  
20 water from said box, the supply to the latter being arranged in any convenient manner, but preferably by a pipe entering the top of said chest and near one end thereof. The aforesaid discharge-ports conduct the water  
25 into troughs located on the opposite sides of the chest and near the top of the same, said side troughs being provided with suitable outlets, as hereinafter more fully described.

In the annexed drawings, Figure 1 is a front elevation of a candle-molding machine embodying my improvements, the central portion of the mold-box being broken away and the trough J being sectioned. Fig. 2 is a plan of said mold-box. Fig. 3 is a vertical section  
35 of the upper portion of the same, taken at the line 5 5 of Fig. 1. Fig. 4 shows modifications of the discharge-ports.

A represents a box or chest of the customary construction for containing a series of candle-molds, B, of any desired shape and size, said box having at top a marginal flange, C, to which latter a cap or cover, D, is screwed, bolted, or otherwise secured. This cap has two parallel channels, E E', into which the  
40 stock is poured before running into the molds B, a detachable plate, F, being located between these channels, the removal of which plate affords convenient access to the interior of box A. G is a hand-hold left at one end  
50 of said plate, for the purpose of enabling the attendant to ascertain the temperature of the water in the mold-box. H is a pipe that sup-

plies cold water to said box. Communicating with the upper part of the latter is a series of ports, I, of any suitable size and shape, said  
55 ports being adapted to discharge into troughs J J', situated, respectively, on the front and rear of the box. These troughs slope toward one end, and are furnished with outlets K K'. Furthermore, said troughs are preferably cast  
60 with the box A, as seen in Fig. 3, although they may be bolted thereto, provided a water-tight joint is produced.

L L' are portions of the legs or frames of the machine. 65

After the candles have been molded a supply of water is admitted through the pipe H into the box A, which is soon filled, and the water is discharged through the ports I into the troughs J J', and thence out at the waste-  
70 ways K K', which flow continues until the candles are properly cooled, and the supply is then shut off.

As the discharge through the various ports I occurs at so many different points, there is  
75 a thorough circulation of water within the box, and the candles are accordingly cooled very rapidly and uniformly.

In Figs. 1, 2, and 3 the discharge-ports I are shown as being formed wholly within the  
80 under side of cap D, while in Fig. 4 said ports are represented as being made in said cap and the flange C of the box. This latter illustration also shows that said ports may be either circular, rectangular, or square in transverse  
85 section. Again, the ports to the left of the break in Fig. 1 are rectangular, while those to the right of said break are semicircular, thereby indicating that the shape of said openings may be varied to suit circumstances. Finally,  
90 in an inferior modification of my invention the front ports and trough J need not be employed; but I prefer using both the front and back ports and the two troughs J J', because the thorough circulation of water will depend upon  
95 the number of ventages made in the box A.

I claim as my invention—

1. A candle-mold box provided with a water-inlet, a series of discharge-ports or ventages at or near the top of said box, and one or  
100 more troughs for catching the water that escapes from said ports and conducting it away from the machine, substantially as herein described.

2. The combination of candle-mold box A B C, cap D E E', inlet H, discharge-ports I, and troughs J J', said troughs being provided with suitable waste-ways, for the purpose described.  
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3. As a new article of manufacture, the candle-mold box A, having troughs J J' cast on the opposite sides of the same, as herein described.

4. The candle-mold-box cap D, having on its under side a series of discharge-ports, I, for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS HOMAN.

Witnesses:

JAMES H. LAYMAN,  
SAML. S. CARPENTER.