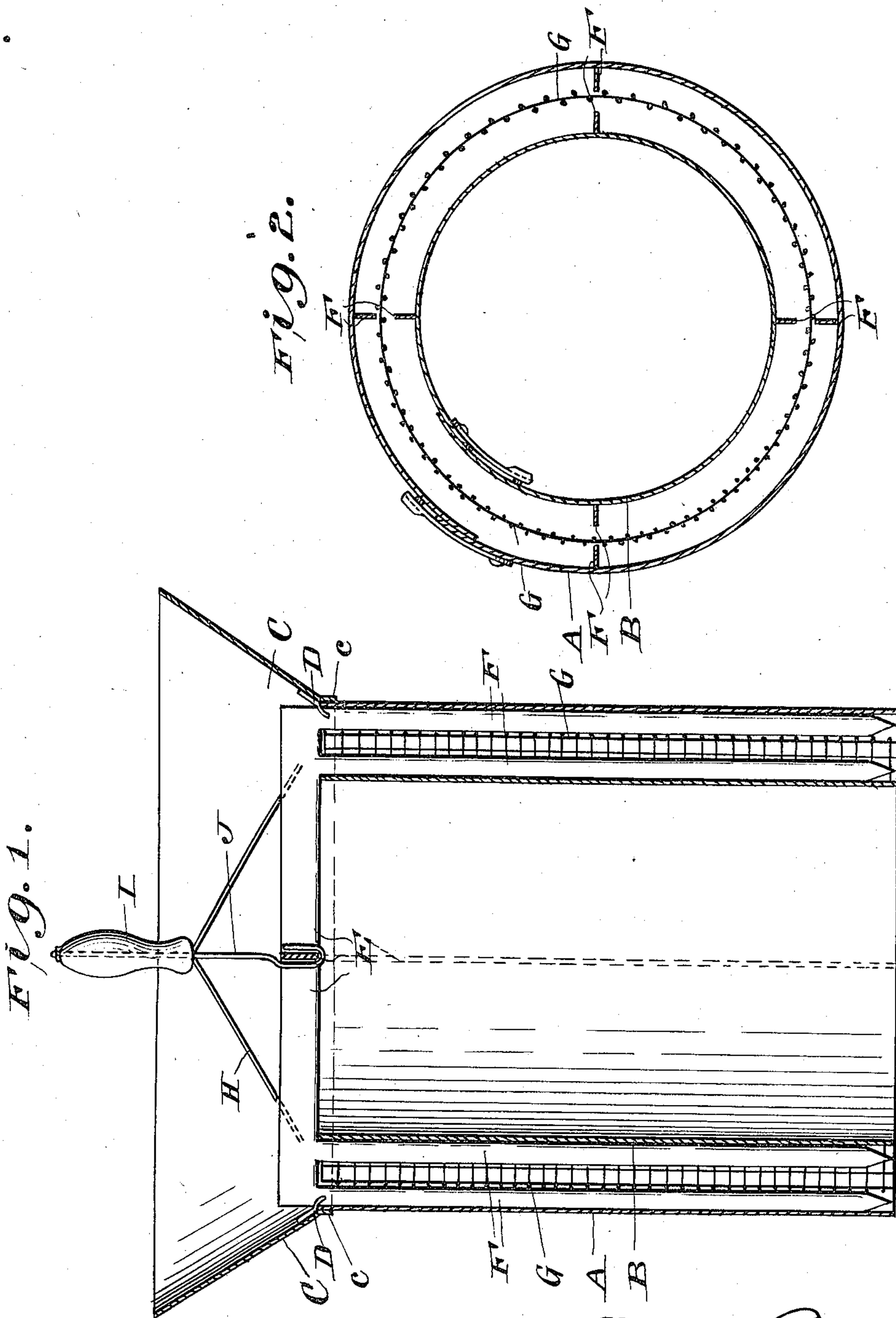


No. 847,454.

PATENTED MAR. 19, 1907.

N. BALDWIN.
MOLDING MACHINE.
APPLICATION FILED JAN. 8, 1907.



Inventor

Witnesses

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NEWTON BALDWIN, OF COLDWATER, MICHIGAN.

MOLDING-MACHINE.

No. 847,454.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed January 8, 1907. Serial No. 351,377.

To all whom it may concern:

Be it known that I, NEWTON BALDWIN, a citizen of the United States, residing at Coldwater, in the county of Branch and State of Michigan, have invented certain new and useful Improvements in Molding-Machines, of which the following is a specification.

My invention relates to machines for molding plastic or earthenware pipes, tiles, blocks, &c., of the class shown and described in certain Letters Patent granted to me on December 18, 1906, No. 838,935. In said patent the outer and inner forms are spaced apart by means of a device having a number of arms that seat between the forms while the mold is being filled and which are pulled out with a tamping or churning motion after the mold has been filled.

The invention hereinafter described contemplates the adaptation of my invention to use in the molding of pipes, tiles, blocks, &c., having a strengthening-web of metal to reinforce the article, and to that end consists in forming each of the spacing-arms of two parallel prongs, between which the strengthening-web is seated when assembling the mold.

The construction and operation of my invention will be described in detail hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical sectional view of my improved mold in an assembled position, showing a strengthening-web of wire-screen fabric in position; and Fig. 2, a horizontal sectional view.

In the drawings similar reference characters indicate corresponding parts throughout both views.

A indicates the outer form or casing, and B the inner form or core of the mold, both of which are made of sheet metal preferably, though for the purposes of my improvement any form of casing and core may be used. C represents a funnel removably and replaceably mounted on casing A, having a depending flange *c* to fit the outside of the upper edge of the casing and clips D to seat on top of the casing.

The spacing device consists of crossed arms E, having two parallel depending vertical arms F at the ends of each of said crossed arms E, said vertical arms being spaced apart slightly to receive a length of wire fabric G or other reinforcing material to be molded into the pipe or tile.

H indicates an inverted-cone-shaped hood secured to crossed arms E to cover the core B while the mold is being filled, and I a handle secured to said arms E by means of a rod J.

In using my improved mold after inserting the reinforcing material G between the arms F and installing said arms in position between casing A and core B the plastic material is poured into the mold. After filling the mold the arms F are withdrawn with a tamping motion to settle the plastic material in position and leaving the reinforcing material G in the molded pipe or tile. After the article has partially or completely dried the core and casing are removed.

It will be understood that a number of cores and cylinders may be provided, but that only one funnel and spacing device would be required for each operator. It will also be understood that my device may be applied to the molding of other forms of plastic products, such as building-blocks, by altering the relative positions of the spacing-arms to suit the work to be accomplished.

Having thus described my invention, what I claim is—

1. In a molding apparatus for plastic products, mechanism for holding the parts of the mold in position and provided with means for holding reinforcing material in the mold while being filled, said mechanism being removable from the mold and the reinforcing material, substantially as shown and described.

2. In an apparatus for molding hollow plastic articles, a casing and a core, and a device for spacing said casing and core apart and for supporting reinforcing material in the mold while being filled, substantially as shown and described.

3. In a molding apparatus, a casing and a core, and a device for spacing said casing and core apart consisting of a plurality of two-forked arms adapted to receive reinforcing material therebetween and hold it in the mold, substantially as shown and described.

4. In a molding apparatus, a casing and a core, and a device for spacing said casing and core apart consisting of a plurality of arms arranged in pairs and spaced apart to receive reinforcing material therebetween and hold it in the mold, said arms approximating in length the length of the casing and core, substantially as shown and described.

5. In a molding apparatus, outer and inner forms, and a device for spacing said outer

and inner forms apart comprising crossed arms to seat on top of the inner form, and two vertical arms depending from the ends of said crossed arms and spaced apart to receive reinforcing material therebetween and hold it in the mold, said arms approximating in length the length of the outer and inner forms, substantially as shown and described.

6. In a molding apparatus, collapsible outer and inner cylinders made of sheet metal, a funnel secured on the outer cylinder, and a spacing device consisting of crossed arms, a conical hood secured to said crossed

arms, and two vertical arms depending from the ends of each crossed arm and spaced apart to receive reinforcing material therebetween and hold it in the mold, said arms approximating in length the length of the cylinders aforesaid, substantially as shown and described.

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

NEWTON BALDWIN.

Witnesses:

ELMER E. PALMER,
AGNES GIBSON.