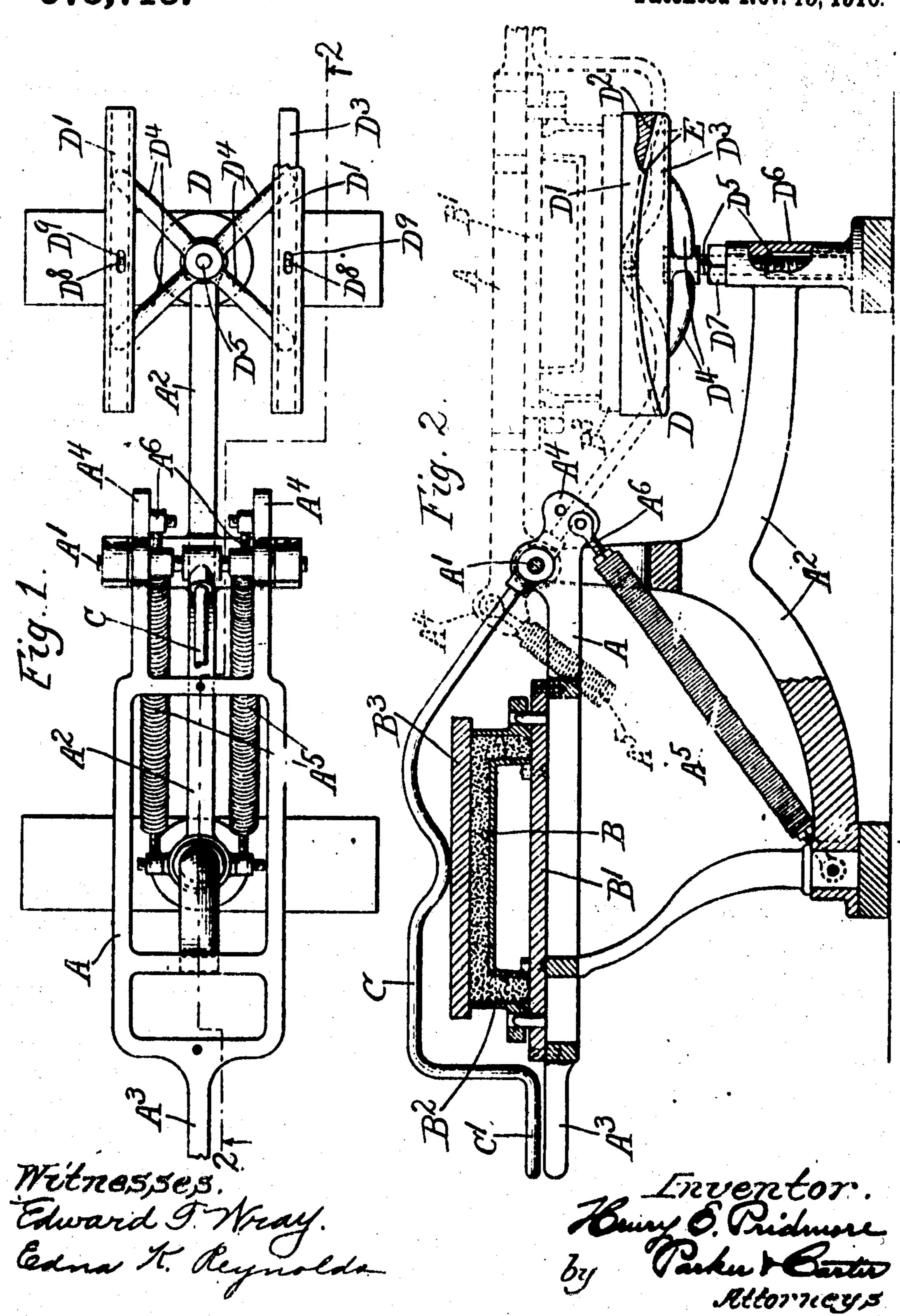
H. E. PRIDMORE.

MOLDING MACHINE.

APPLICATION FILED PEB. 4, 1907.

975,715.

Patented Nov. 15, 1910.



UNITED STATES PATENT OFFICE.

CHICAGO, ILLINOIS. PRIDMORM, OF

MOLDING-MACHINE.

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Specification of Letters Patent. Patented Nov. 15, 1910.

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To all whom it may concern:

Be it known that I, HENRY E. PRIDMORE, a citizen of the United States, residing at Chicago, in the county of Cook and State of 8 Illinois, have invented a certain new and useful Improvement in Molding-Machines, of which the following is a specification.

This invention relates to molding machines, and has for its object to provide a 10 new and improved device of this descrip-

tion.

The invention is illustrated in the accom-

panying drawings, wherein-

Figure 1 is a plan view of one form of 15 machine with the flask and pattern plate removed to expose the mechanism; Fig. 2 is a sectional view taken on line 2-2 of Fig. 1.

Like letters refer to like parts throughout the several figures. 20 A pattern carrier A is hinged at A¹ to a suitable frame A2. The pattern B is mounted upon the pattern carrier in any desired manner, as by means of the pattern plate B'. The flask B' is also mounted upon the pat-25 tern carrier and is provided with a suitable bottom board B. A holding piece C is hinged to the frame and engages the bottom board so as to hold it in place, and is provided with a handle C' which is opposite to 30 a handle A* on the pattern carrier. The pattern carrier is provided with projecting parts A4 to which are connected springs A5 said springs being connected at their other ends to the frame and acting to assist in the 35 turning movement of the pattern carrier. These springs are made adjustable by means of the threaded end pieces A' which work in threaded parts with which the springs are connected. A receiving device or parting 40 frame D is arranged so as to receive the flask when turned over to the position shown in dotted lines in Fig. 2. The receiving device D is provided with a plurality of supporting parts D' each provided with a bearing sur-45 face for the flask, and adapted to engage the bottom board thereof, said supporting parts atranged to move in vertical planes so as to adjust themselves to irregularities in the said bettom board so as to bring the 50 parts in a proper position to withdraw the pattern from the flask. These supporting

parts as herein shown are provided with

curved faces D' which engage curved faces

on the supports D. Some means is pro-

vided for moving the supporting parts D'

connecting said supporting parts to an adjustable device which can be moved up or down. As herein shown the supports D' are connected by the connecting pieces D' with co the threaded part De which works in the threaded opening in the standard Do. A locking nut D' is preferably provided. It will thus be seen that by this means the supporting pieces may be moved up or down 65 bodily. The supporting parts D' are provided with some means for limiting their movement so as to prevent them from becoming displaced. As herein shown this means consists of the pira D' working in the 70 slots D'. Lateral displacement of the supporting parts is prevented by means of the flanges or projecting parts E which engage the supports D².

In the operation of the device the sand is 76 first moved into the Aask when the flask is in the position shown in full lines in Fig. 2. The bottom board is then placed in position and the holding piece C moved to the position shown in full lines. The pattern car- 20 rier, together with the pattern and flask and associated parts, is then moved to the position shown in dotted lines in Fig. 2, until the bottom board D' rests upon the supporting parts D'. These supporting parts auto- 55 matically swing in vertical planes so as to adjust themselves to irregularities in the botton board, and bring the parts in proper relatio so that the pattern can be easily and properly withdrawn from the flask. It will 99 further be seen that these supporting parts form proper supports for the flask.

The supporting parts may be raised or lowered to adjust them to Masks of different

thicknesses.

I claim: 1. A molding machine comprising a frame, a pattern carrier hinged thereto, a receiving device comprising a plurality of sliding supporting parts each provided with a bearing surface for the flask free to move longitudinally independent of the rest of said support and adapted to move in vertical planes to adjust themselves to irregularities in the bottom of the flask.

2. A molding machine comprising a frame, a pattern carrier hinged thereto, a receiving device comprising a plurality of supporting devices each comprising a supporting part having a curved face, a support for each 110

supporting part having an opposed curved bodily. As herein shown this is escured by ince, said supporting parts ires to move

said supporting parts bodily.

3. A molding machine comprising a frame. a receiving device for the flask connected to said frame and comprising a plurality of supporting parts each provided with a straight face and a curved face, one acting ! 10 as a bearing surface for the flask and adapt. ed to swing in vertical planes and means for . 7. A molding muchine comprising a frame, 45 lunding said movement.

15 said frame and comprising a plurality of ling surface for the flask, supports for said means for moving said supporting parts up . ing device for limiting this me ement. 20 or down.

board of the flask supports for said support. 30 ing parts, the supporting parts having a leave sliding connection with said supports,

6. A molding machine comprising a reeciying device, a plurulity of supporting parts connected with said receiving device

along the curved faces of said supports to and adapted to receive the flask, said sup- 35 adjust themselves to irregularities in the porting parts mounted so as to be free to bottom of the flask, and means for moving swing in vertical planes parallel to each other and independent of each other to compensate for irregularities in the bottom board of the flask, said plurality of supporting parts 40 fastened to a single part, and a frame to which said latter part is connected and means for moving said single part to simultaneously adjust said supporting parts.

a receiving device for the flask connected to i. A molding machine comprising a frame, said frame, and comprising a plurality of a receiving device for the flask connected to supporting parts, each provided with a beartwo-part supporting devices each provided supporting parts, means for giving said 50 with a bearing surface for the flusk and bearing surfaces a longitudinal! movement adapted to swing in vertical planes, and with relation to said supports, and a limit-

8. A molding machine comprising a pat-5. A molding machine comprising a re- ! term carrier hinged so as to be moved to an 55 ceiving device, a plurality of supporting inverted position and adapted to receive a parts connected with said receiving device flask, a bottom bourd for said flask, a receivand adapted to receive the flask, said sup- ing device for the flask and bottom board porting parts mounted so as to be free to comprising a plurality of movable supportswing in vertical planes parallel to each ing parts, a supporting device upon which ac other, and independent of each other, to said supporting parts are slidably mounted, compensate for irregularities in the bottom and means for limiting the sliding movement of said supporting parts.

HENRY E. PRIDMORE.

Witnesses: EDWARD T. WRAY, EDNA K. REYNOLDS.