

No. 702,634.

Patented June 17, 1902.

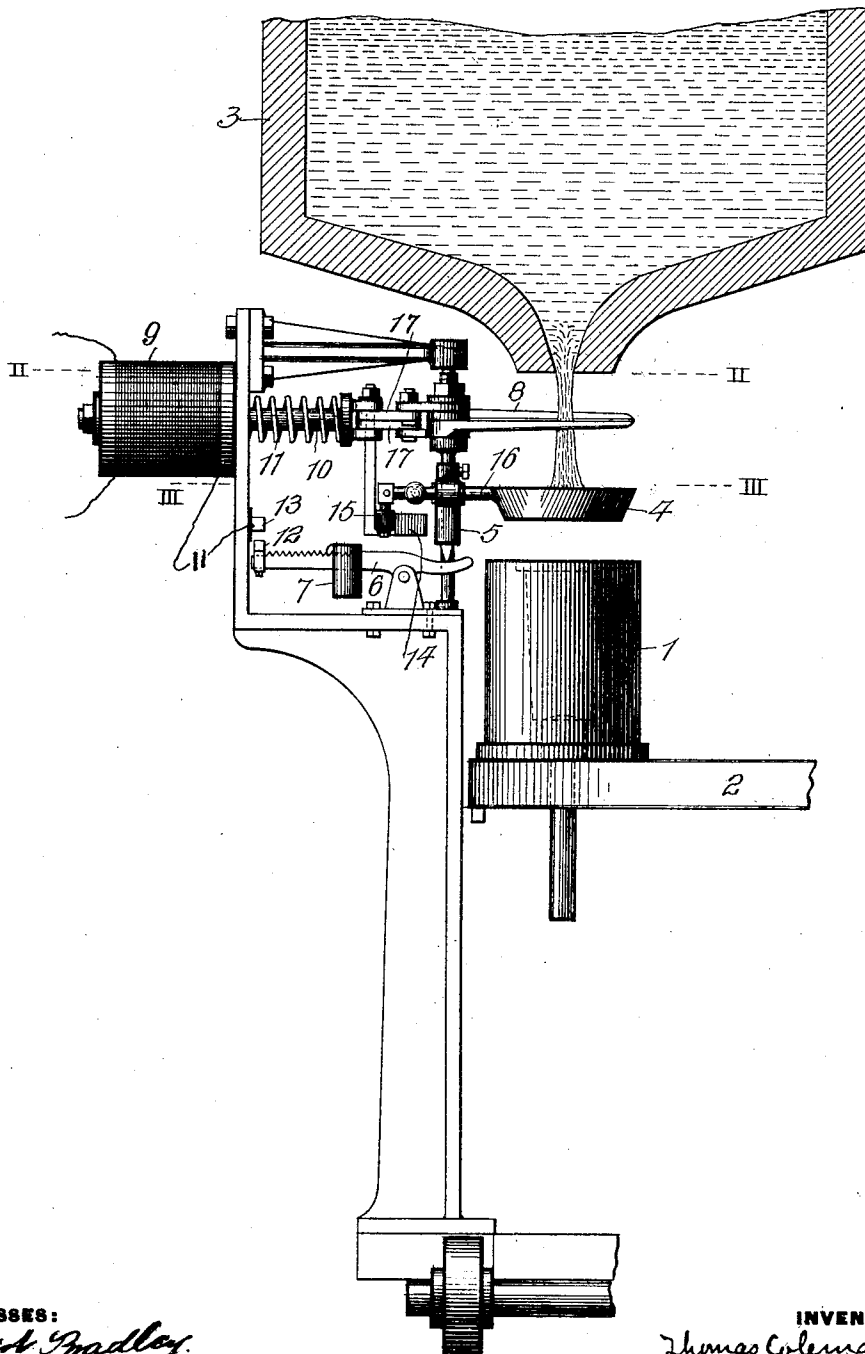
T. COLEMAN, JR.
MECHANISM FOR FEEDING GLASS TO MOLDS.

(Application filed July 22, 1901.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 1.



WITNESSES:

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FIG. 2.

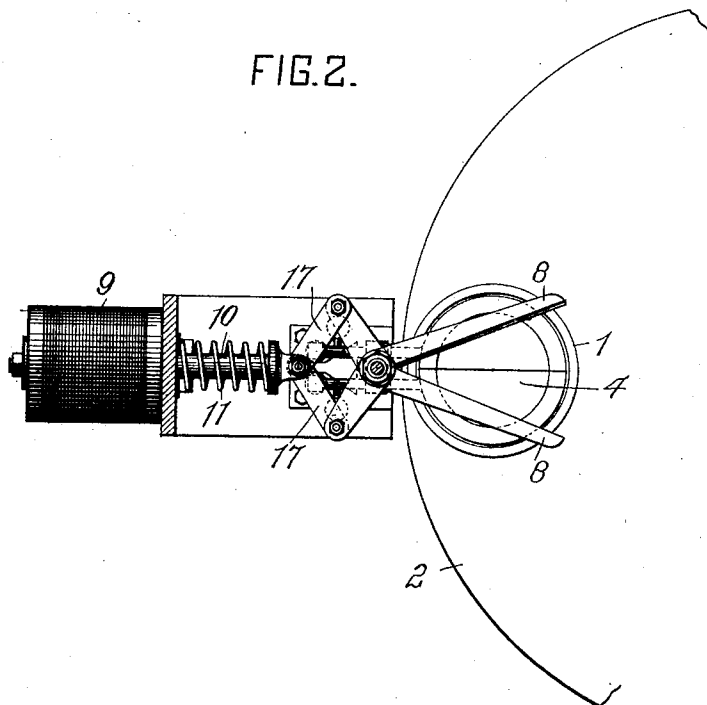
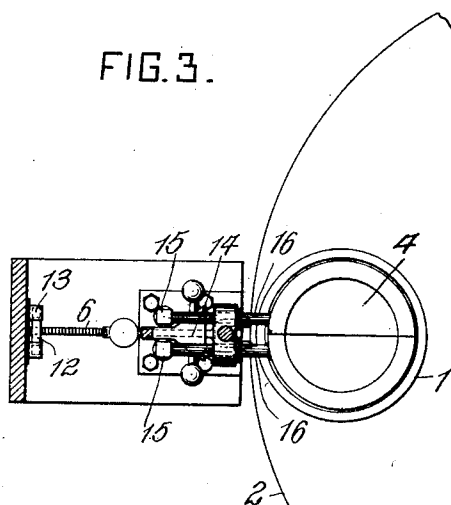


FIG. 3.



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UNITED STATES PATENT OFFICE.

THOMAS COLEMAN, JR., OF CLARKSBURG, WEST VIRGINIA.

MECHANISM FOR FEEDING GLASS TO MOLDS.

SPECIFICATION forming part of Letters Patent No. 702,634, dated June 17, 1902.

Application filed July 22, 1901. Serial No. 69,214. (No model.)

To all whom it may concern:

Be it known that I, THOMAS COLEMAN, JR., a citizen of the United States, residing at Clarksburg, in the county of Harrison and State of West Virginia, have invented or discovered certain new and useful Improvements in Mechanism for Feeding Glass to Molds, of which improvements the following is a specification.

10 The invention described herein relates to certain improvements in mechanism for feeding glass to molds, and has for its object a construction whereby a predetermined amount of glass may be fed at the required intervals to the mold.

15 The invention is hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a view in elevation of a portion of a glass-press having my improvement applied thereto. Fig. 2 is a sectional view on a plane indicated by the line II II, Fig. 1; and Fig. 3 is a similar view on a plane indicated by the line III III, Fig. 1.

25 In the practice of my invention, as illustrated in Fig. 1, a series of molds, as 1, is arranged upon a suitable movable table 2, so that they may be presented in succession to the feeding mechanism. The press may be mounted upon a movable truck, so that it can be moved adjacent to a glass-melting furnace, or the glass may be carried to the press by a ladle, as 3. As the glass is poured from the ladle it will drop into a sectional pan 4, which is supported by a vertically-movable rod 5, resting at its lower end upon a lever 6. This lever is pivotally mounted upon a support, and on its opposite end or portion is mounted a weight 7, adapted to move along the lever in accordance with the amount of glass desired to be fed into the mold. As soon as a sufficient amount of glass has been deposited in the pan the outer end of the lever is raised so as to operate or cause the operation of a cutting mechanism, preferably formed by a pair of pivoted blades 8, to sever the stream of glass as it flows from the ladle into the pan. Any suitable mechanism may be interposed between the lever 6 and the shear mechanism to cause the latter to operate on the shifting of the lever by the glass in the pan.

In the construction shown electrical means are employed for operating the shears and consist of a solenoid 9, having its core 10 connected by links 17 to the inner arms of the shears 8. Normally the shears are held open by means of a spring 11, surrounding the core and forcing the same outwardly. As the lever 6 is raised the contacts 12 and 13 are brought together, completing the circuit through the solenoid, causing the core of the latter to move backward and close the shears. By this movement of the core of the solenoid the pan is caused to open and drop the glass into the mold. A desirable construction for this purpose consists of a wedge 14, which is caused by the movement of the core of the solenoid to pass between arms 15, secured to shafts 16, carrying the sections of the pan, and thereby turn the sections in such manner as to dump the glass held therein into the mold. As soon as the pans are relieved of the weight of the glass the weight on the lever 6 will shift the latter, raising the pans and breaking the circuit through the solenoid, so that the core of the latter will be shifted by the spring, opening the shears, and pushing the wedge from between the arms carrying the pan-sections, permitting the latter to be closed by their own weight, said sections being eccentric to the shafts 16, or by weights 18, secured eccentrically on the shafts 16.

I claim herein as my invention—

1. In an apparatus for forming glass articles, the combination of a shaping-mold, a receiving-basin, a cutting mechanism, means whereby the same is operated on the reception by the basin of a predetermined amount of glass and means for shifting the basin to deposit the glass into the mold, substantially as set forth.

2. In an apparatus for forming glass articles, the combination of a shaping-mold, a counterweighted receiving-basin, a cutting mechanism, means controlled by the basin for operating the cutting mechanism and for effecting a discharge of the glass contained in the basin, substantially as set forth.

3. In an apparatus for forming glass articles, the combination of a shaping-mold, a weighing mechanism, including a receiving-basin as a part thereof, a cutting mechanism controlled by the weighing mechanism, and

means for shifting the basin controlled by the weighing mechanism, substantially as set forth.

4. In an apparatus for forming glass articles, the combination of a shaping-mold, a lever having an adjustable weight at one end, a sectional receiving-basin supported by the opposite end of the lever, a cutting mechanism controlled by the lever and means for

separating the sections of the basin, substantially as set forth.

In testimony whereof I have hereunto set my hand.

THOMAS COLEMAN, JR.

Witnesses:

DARWIN S. WOLCOTT,
F. E. GAITHER.