

No. 750,609.

PATENTED JAN. 26, 1904.

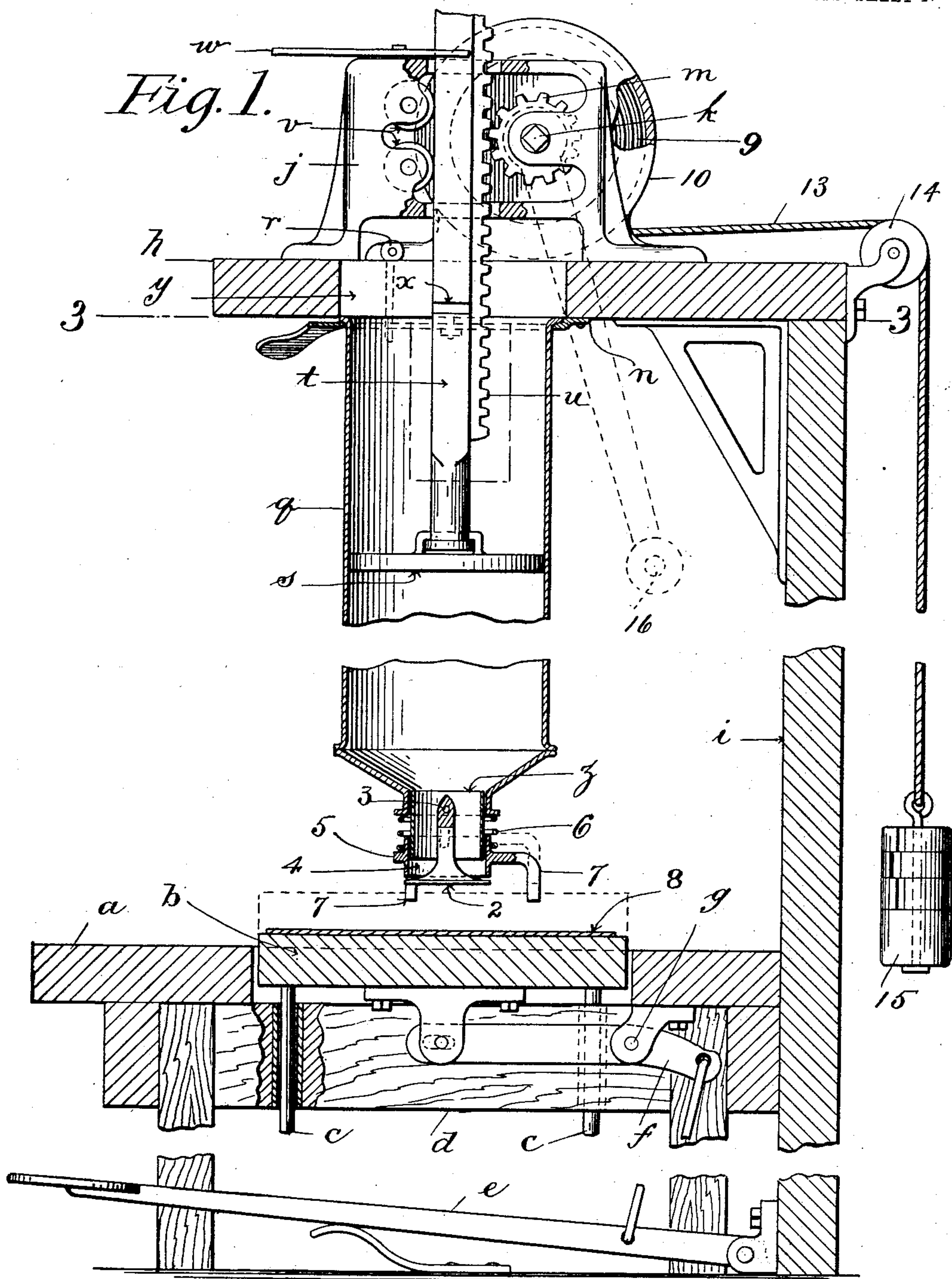
V. COTÉ.

MACHINE FOR MOLDING PASTRY.

APPLICATION FILED MAY 19, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:-
J. D. Garfield
Mrs. Crozier.

Inventor:
Victor Cote
by Chapman &
Attorneys.

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2 SHEETS—SHEET 2.

Fig. 2.

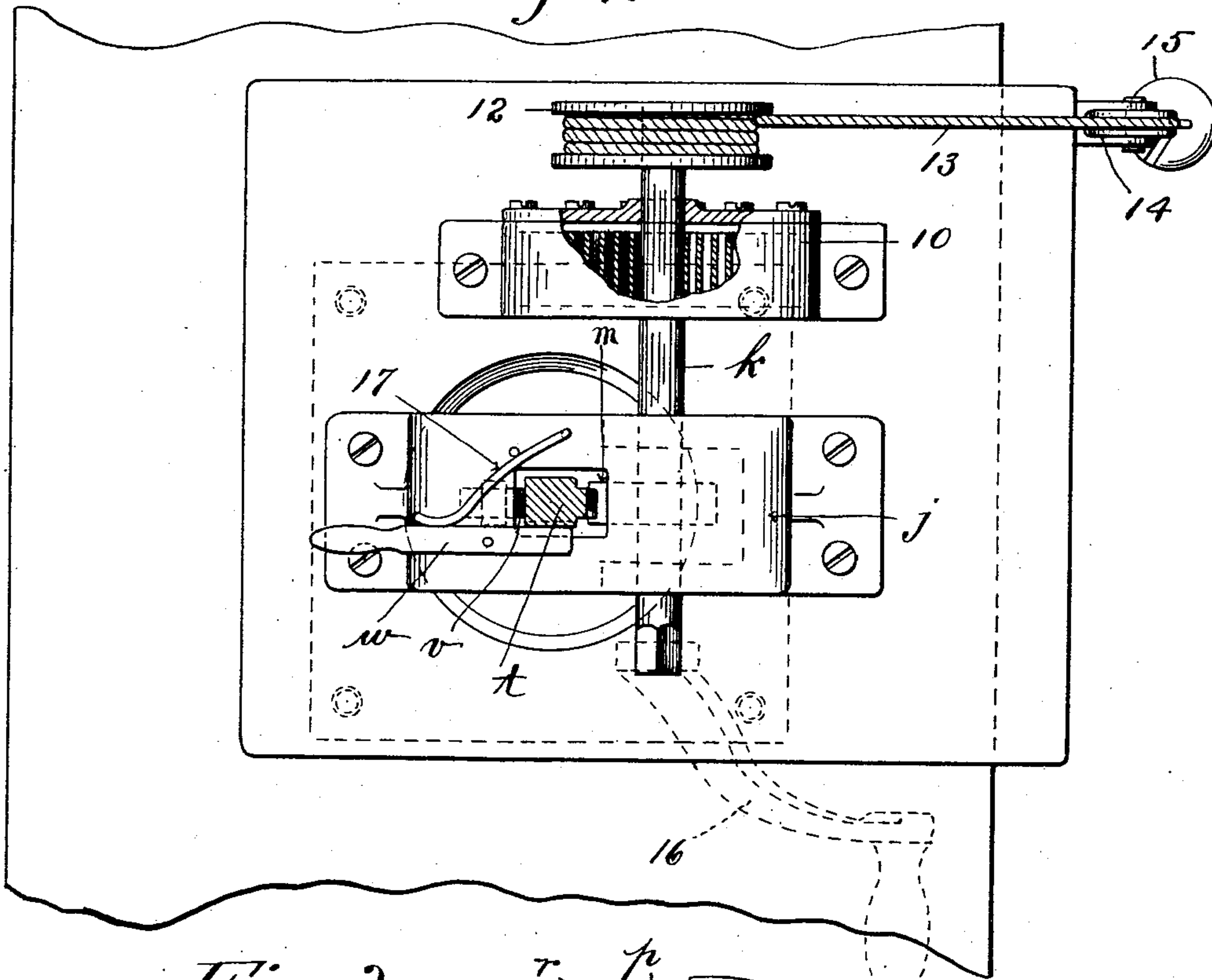
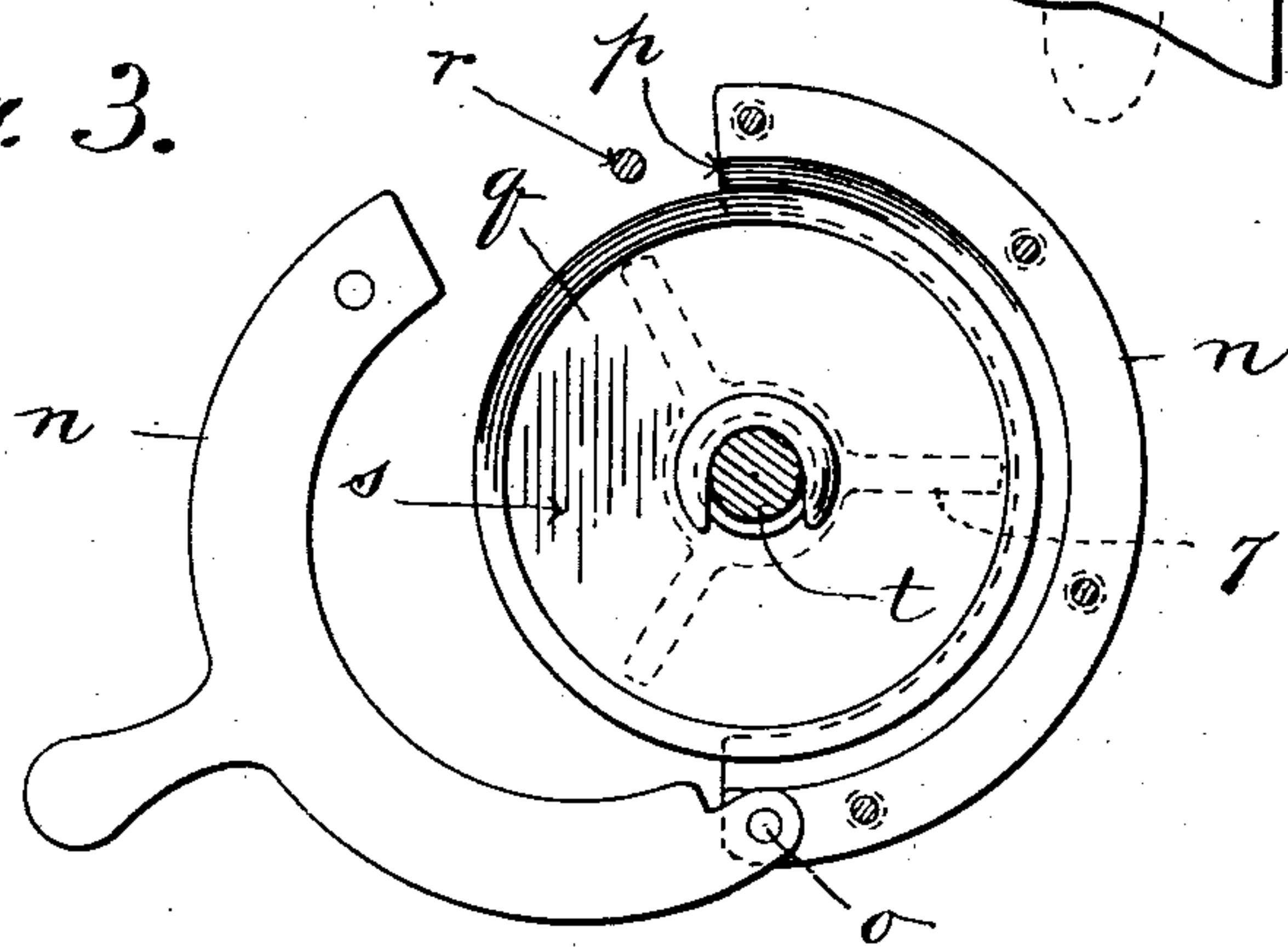


Fig. 3.



Witnesses:-
J. D. Garfield
M. Crozier

Inventor:
Victor Côté.
by *Chapman & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

VICTOR COTÉ, OF TURNERS FALLS, MASSACHUSETTS.

MACHINE FOR MOLDING PASTRY.

SPECIFICATION forming part of Letters Patent No. 750,609, dated January 26, 1904.

Application filed May 19, 1903. Serial No. 157,849. (No model.)

To all whom it may concern:

Be it known that I, VICTOR COTÉ, a subject of the King of England, residing at Turners Falls, in the county of Franklin and State of Massachusetts, have invented new and useful Improvements in Machines for Molding Pastry, of which the following is a specification.

This invention relates to machines for molding pastry, the object being to provide an improved machine of this class embodying certain novel features which will be fully described in the following specification and carefully summarized in the claim appended thereto and which are clearly illustrated in the drawings accompanying the specification, in which—

Figure 1 is a sectional elevation of a machine embodying the said improved constructions. Fig. 2 is a plan view of the upper part of the machine, a portion thereof being broken away and a portion in section. Fig. 3 is a plan view of the top of the dough-cylinder and its clamping device, the centrally-located plunger-rod being cut through at the cylindrical part thereof near the head of the plunger.

In carrying out this invention a work-table *a* is constructed in which there is an opening about centrally thereof, preferably square. In this opening there is supported a vertically-movable section *b* of the table-top fitting approximately into said opening, the upper surface of said movable section being located in its lowermost position approximately level with the table-top. Said section may be provided with guide-pins *c*, extending through a bar or bars *d* beneath it (or other guiding means) and is raised and lowered by means of a treadle *e*, operating through a suitable connection with an arm *f*, pivotally supported at *g* under the table, a suitable spring being located under the treadle to assist in the return of the said movable section *b* to a normal position after it has been raised.

Above the work-table *a* is a platform *h*, parallel with the table and extending out over it. This is supported on an upright *i*, extending up from the back side of the table. On this platform is located a head, preferably of cast-iron and indicated by *j*, in which is mounted a shaft *k*, having fixed thereon within said

head a gear *m*. Secured to the under side of the platform *h* is a split collar *n*. (Shown in plan view in Fig. 3.) The two halves of this collar are pivotally united at *o*, and the inner edge of that part of the collar which is permanently secured to the platform is provided with an inturned flange *p*, which drops a little below the under side of the platform, thus providing a semicircular channel which is adapted to receive the outwardly-turned flange on the upper end of the dough-cylinder *q*. The other half of the collar *n* is provided with a suitable handle which swings outwardly to permit the removal of the dough-cylinder for refilling, and when swung in to clamp it in place under the platform it is secured in its locked position by a pin *r*. (Shown in Figs. 1 and 3.)

Within the dough-cylinder *q* a plunger *s* is located, and it is removably secured to the plunger-rod *t*, which projects up through the head *j* and is provided on that side thereof next to the gear *m* with a rack *u* to engage the latter, two rolls *v* being mounted in said head to bear against the opposite side of said plunger-rod to hold the rack in engagement with its gear. On the top of the head *j* is a swinging arm *w*, one end of which is movable toward and from the side of the plunger-rod *t*, in the side of which are suitable notches *x*, into which the end of the arm *w* may be swung to lock the plunger in any desired position in the cylinder. If desired, another form of latch may be used to lock the plunger-rod in a more or less elevated position.

The platform *h* has a hole through it (indicated by *y*) of sufficiently large diameter to permit the plunger *s* to be drawn up through it when it is desired to disengage the cylinder *q* from the platform. The lower end of the cylinder *q* tapers downwardly and has a neck formed thereon in which is the sleeve *z*, and within this sleeve is supported the circular deflecting-plate 2, held in position by a pin passing through the upper end of the stem thereof and through the sleeve and the neck of the cylinder, and whereby also the sleeve is secured in said neck. The said pin is shown in Fig. 1 and is indicated by 3. This deflecting-plate is located at a certain distance below

the lower end of the sleeve, whereby an annular outlet-opening 4 for the cylinder is provided, through which the dough may be forced by the operation of the plunger *s*, the dough 5 being forced outwardly radially when the opening is clear. Normally, however, this opening 4 is closed by means of a collar 5, which is held down against the deflecting-plate 2 by a spring 6. On this collar there are 10 arms 7, which extend outwardly and downwardly to a point below the plane of the deflecting-plate 2. If, therefore, the movable section *b* be raised by the action of the treadle, it will contact with these arms 7 and raise the 15 collar 5, thus permitting the dough to be forced out of the opening 4; but as soon as the movable section *b* descends the spring 6 will close this opening, cutting off the supply of dough. The result of this action is the formation of a ring of dough which is deposited 20 on the movable section *b* or upon a thin metal plate 8 placed thereon. This may be moved about from place to place on said movable section coincidentally with the operation of the treadle and the ring-like forms of dough 25 be thus located on the plate where desired. The plate, with its contents, may then be slid into the oven and a new plate substituted.

The means for actuating the plunger to maintain a constant downward pressure on the 30 dough will move the plunger downwardly whenever the dough is permitted to escape through the opening 4, and these means for keeping pressure on the plunger consist of a spiral spring 9, one end of which is secured 35 to the shaft *k* and the opposite end to the casing 10, in which said spring is housed, and in addition to said spring a drum 12 may be located on one end of the shaft *k*, around which 40 a rope 13 is wound, which, running out over a suitable sheave 14, has a weight 15 attached

to the lower end thereof, which operates in conjunction with the spring 9 to rotate the shaft, and thus through the rack-and-pinion 45 connection, above described, keep a constant downwardly-exerted pressure on the plunger *s*. One end of the shaft *k* may be squared to receive a crank 16, (shown only in dotted lines,) whereby the spring and weight may 50 both be wound up, the winding-up process raising the plunger *s* up into the hole *y* in the platform, and thus permitting the removal of the cylinder *q* for refilling. When the cylinder reaches its uppermost position, the arm 55 *w* will snap into the lowermost notch *x* in the side of the plunger-rod *t*, and thus hold the spring 9 under tension and the weight 15 in an elevated position. Preferably a spring 17 is applied to the arm *w* to hold the end of the 60 latter in contact with the plunger-rod.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The combination with a table having an opening therein, of a vertically-movable section 65 fitting said opening, and means to reciprocally move said section; a dough-cylinder supported above said movable section, a plunger in said cylinder, a plunger-rod projecting above the cylinder, and means to maintain a constant 70 downward pressure on the plunger; said cylinder having an outwardly-opening discharge-outlet; a spring-actuated collar adapted to normally close said discharge-outlet, and means on said collar to coöperate with said movable 75 table-section to raise said collar and disclose said outlet.

VICTOR COTÉ.

Witnesses:

IVAR C. GINGRAS,
H. A. COTÉ.