No. 628,405. Patented July 4, 1899.

A. C. GILLETTE.

MOLD AND WEIGHT GAGE.

(Application filed Mar. 1, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

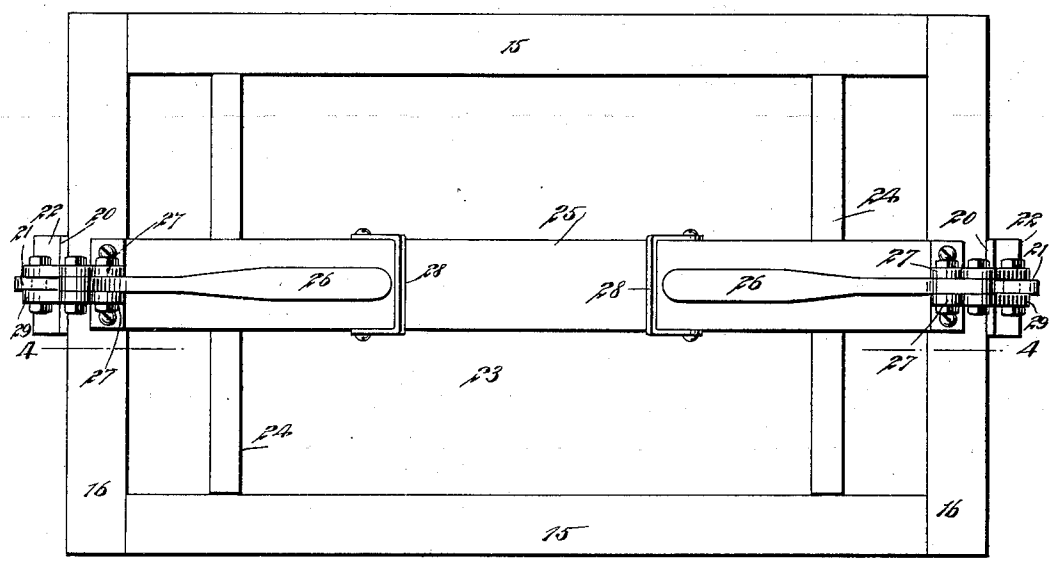

Fig. 2.

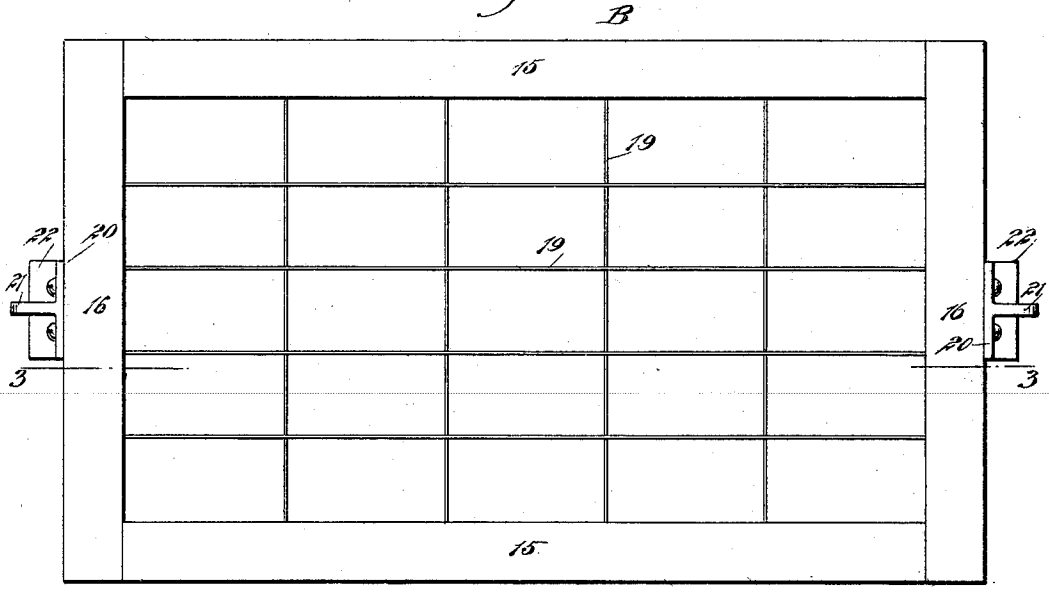

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Fig. 3.

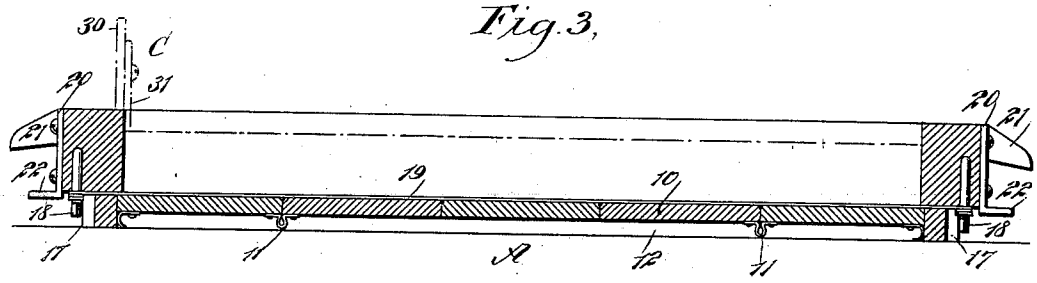


Fig. 4.

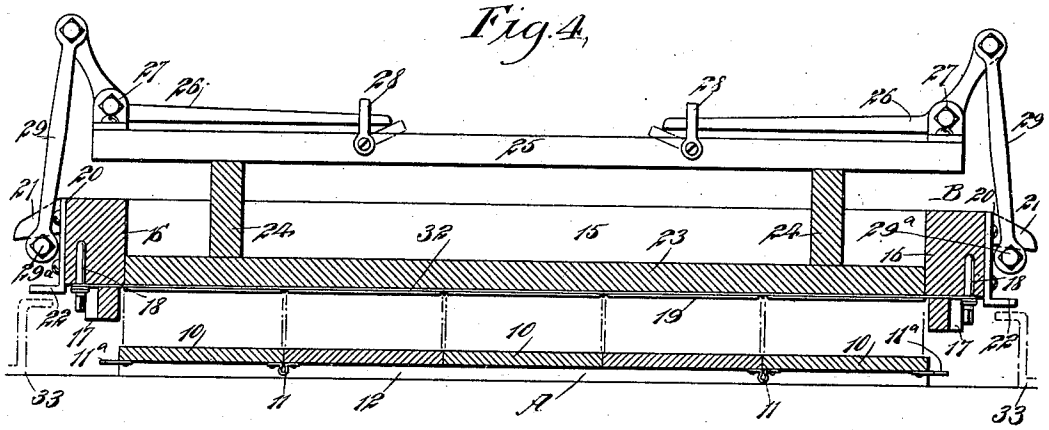


Fig. 5.

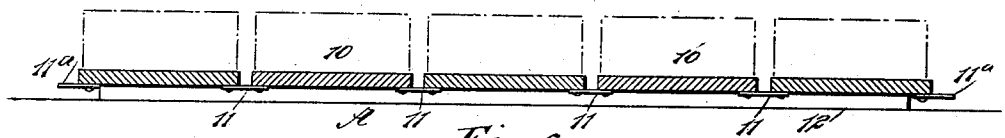
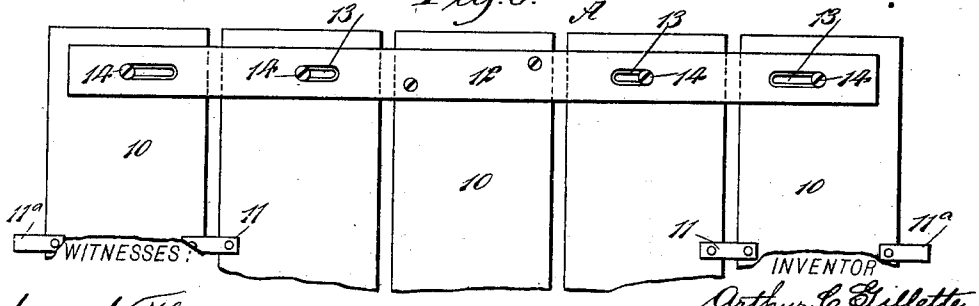


Fig. 6.



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UNITED STATES PATENT OFFICE.

ARTHUR C. GILLETTE, OF JERSEY CITY, NEW JERSEY.

MOLD AND WEIGHT-GAGE.

SPECIFICATION forming part of Letters Patent No. 628,405, dated July 4, 1899.

Application filed March 1, 1899. Serial No. 707,334. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR C. GILLETTE, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Mold and Weight-Gage, of which the following is a full, clear, and exact description.

The object of my invention is to provide a mold and weight-gage especially adapted for handling butter, soap, and like material, the device being so constructed that a number of blocks or pats of butter, cakes of soap, or other material of desired size and weight can be readily, expeditiously, and simultaneously produced from a mass of matter and whereby a design may also be produced upon each block or pat of butter or upon the soap or other material.

A further object of the invention is to construct a device of the above character in a simple, durable, and economic manner and wherein the board upon which the pats or cakes are formed will be made in separable sections, enabling the pats or cakes to be readily taken up and removed.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the complete device. Fig. 2 is a plan view of the device, the follower having been removed. Fig. 3 is a longitudinal vertical section taken practically on the line 3 3 of Fig. 2. Fig. 4 is a vertical section through the complete device on the line 4 4 of Fig. 1. Fig. 5 is a vertical section through the bottom board of the device, and Fig. 6 is a partial bottom plan view of the said bottom board.

The bottom board A of the device is constructed of a series of sections 10, and these sections are connected by straps 11, which may be of tape or of any desired material, and said straps may be elastic, if desired. In the further construction of the bottom board A strips 12 are made to cross the sections at or near their ends, and these strips are secured in any suitable or approved manner usually to the central member 10 of the bottom board, the strips being provided with series of longitudinal slots 13. Screws 14 or their equivalents are passed through these slots and into the members of the bottom board and secured to the latter, so that the various members of the bottom board may be separated to a certain extent, enabling the pats or blocks of butter that are formed upon the bottom board to be readily removed therefrom.

In connection with the bottom board a body-frame B is employed, said body-frame consisting of side bars 15 and end bars 16. A recess 17 is made in the outer face of each member of the body-frame, as shown in Figs. 3 and 4, and pins 18 are carried upward through the bottom walls of the recesses into the sides and ends of the body-frame, as shown also in Figs. 3 and 4. The outer ends of the pins 18 are preferably squared, so that they may be turned by a wrench or a like tool. Wires 19 are made to extend longitudinally and transversely at the bottom portion of the body-frame, said wires being secured to and wound upon the outer end portions of said pins 18.

A bracket 20 is secured centrally to the outer face of each end 16 of the body-frame, and each bracket is provided with a nose 21 at its upper end and a lip 22 at its lower end, and preferably the under face of each nose 21 is more or less upwardly and inwardly inclined, as shown in Figs. 3 and 4.

A follower 23 is made to fit into the body-frame B, and said body-frame is adapted to fit over the bottom board A when the members of said board are brought close together. Cross-bars 24 are secured to the upper face of the follower 23, and these cross-bars are of sufficient height to extend beyond the top of the body-frame when the follower is in position, as shown in Fig. 4. The cross-bars are connected by a longitudinal beam 25, and at each end of said beam 25 an angle-lever 26 is fulcrumed in suitable ears 27. The handles of the levers may be held at their free ends close to the longitudinal beam or bar 25 through the medium of keepers 28, said keepers being given the form of loops and pivoted to said longitudinal bar or beam. Links 29 are pivoted at their upper ends to the outer

ends of each lever 26, said links at their lower ends being provided with rollers 29^a or with a cross-bar, and said rollers or cross-bars are adapted to be brought in engagement with the inclined under surface of the nose-sections of the brackets when the device is in operation.

In operation the body-frame is placed over the bottom board A, the members of said bottom board having been closed, and the bottom frame is then entirely or partially filled with butter or other material to be molded or formed into pats or blocks. Sufficient material is removed from the body-frame to admit the follower 23, as indicated by broken lines in Fig. 3. This surplus material is preferably removed through the medium of a scraper C, (shown in broken lines also in Fig. 3,) and this scraper consists of a bar or board 30 of sufficient length to extend across the top of the body-frame and a blade 31, adjustably attached to said board, the blade being of such length that it will extend downward inside of the frame in engagement with its inner side faces. The handle portions of the levers 26 are then carried upward a sufficient distance to permit the rollers or cross-bars of the links 29 to be passed beneath the noses on the brackets 20. Next the handles of the levers are forced downward, whereupon the material beneath the follower will be pressed and the body-frame drawn upward at the same time, causing the wires 19 to separate or cut the mass of material into blocks or pats, and when the follower is at its highest position the wires 19 enter grooves 32 in the bottom of the follower, as shown in Fig. 4.

If it be desired to make an imprint upon the tops of the pats or blocks, the bottom of the follower is provided with suitable molds, and after the pats have been formed the lips 22 of the brackets are carried to an engagement with the under surfaces of the heads of cleats 33, fastened to the table or other support upon which the bottom board A rests. The handles of the levers 26 are then carried farther downward, so as to increase the pressure on the pats. After the pats have been formed and stamped as required the body-frame and follower are removed from the bottom board A, and the members of the board are then separated, as shown in Fig. 6, enabling the pats to be conveniently removed from the bottom board and, if desired, wrapped up while yet on the board. For convenience in separating the members of the bottom board loops or handles 11^a are secured to end members, as shown in Figs. 4, 5, and 6.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a mold, a body-frame, a follower adapted to travel in the body-frame, cutters attached to the body-frame below the follower, and means for exerting downward pressure on the follower and upward pressure upon the body-frame, as and for the purpose specified.

2. A mold consisting of a body-frame provided with cutters at its bottom portion, a follower adapted to slide in the body-frame above the cutters, projections at opposite sides of the body-frame, and levers carried by the follower, said levers having connection with the projections from the body-frame, as described.

3. In a mold and weight-gage, the combination, with a frame, projections at opposite sides of the frame, and cutters located at the bottom of the frame, of a follower mounted to slide in said frame, angle-levers carried by said follower, and links carried by the angle-levers and adapted for engagement with the projections from the body-frame, as described.

4. In a mold and weight-gage, the combination, with a body-frame, adjusting-pins located in the body-frame, wires attached to said adjusting-pins, and projections from opposite ends of said frame, of a follower adapted to slide in said body-frame, levers pivoted upon the follower, link connections between the levers and the projections from the body-frame, and keepers for the levers, as described.

5. In a mold, a bottom board comprising a series of sections, and strips extending across the sections at their ends, the strips being rigidly secured to the center strip and having the other strips slidably connected therewith, substantially as described.

6. In a mold, a bottom board consisting of a series of members, a flexible connection between said members, and guide-strips rigidly connected with one member and with which the other members are slidably connected, as and for the purpose set forth.

7. In a mold, a body-frame provided with cutters in its bottom, a follower in the body-frame, and means for moving the body-frame on the follower, substantially as described.

8. In a mold the combination of a body-frame provided with cutters in its bottom, a follower in the body-frame, means for exerting downward pressure on the follower and moving the body-frame upward, and means for locking the body-frame stationary, substantially as and for the purpose set forth.

9. In a mold, the combination of a body-frame provided with cutters, a follower in the body-frame, operating-levers on the follower, links connecting the lever with the body-frame, lips on the body-frame, and fixed cleats with which the lips are adapted to be engaged, substantially as and for the purpose specified.

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