L. CUTTING.

Machine for Filling Cans with Meat.

No. 229,590. Patented July 6, 1880.

FIG. 1.

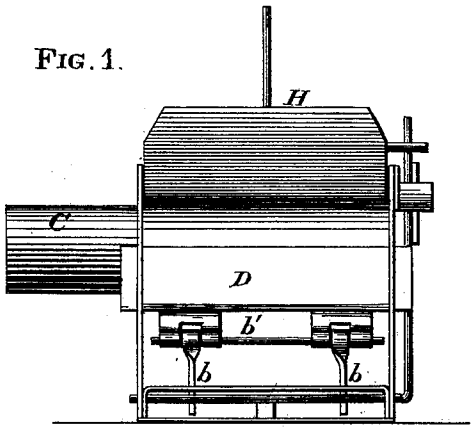


FIG. 2.

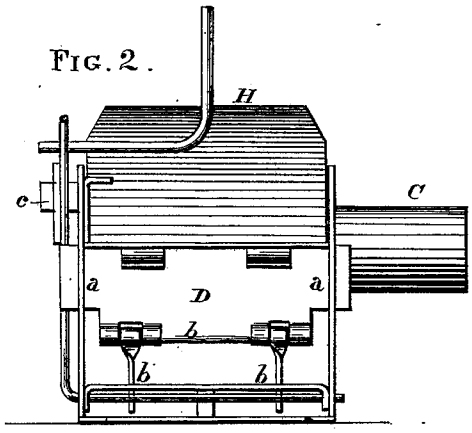


FIG 3

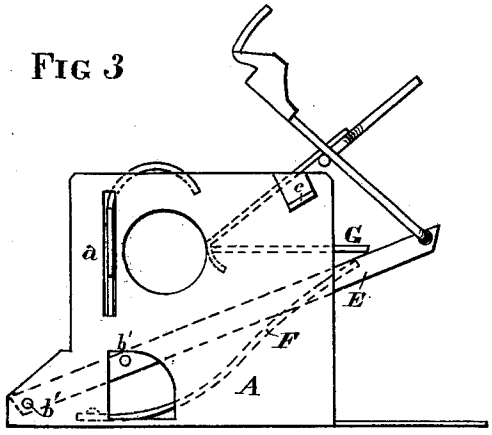


FIG 4

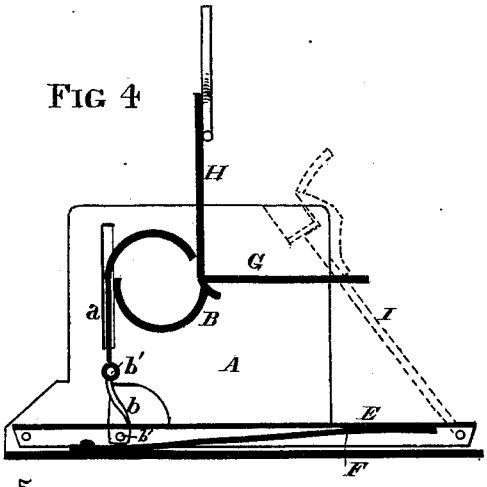


FIG. 5.

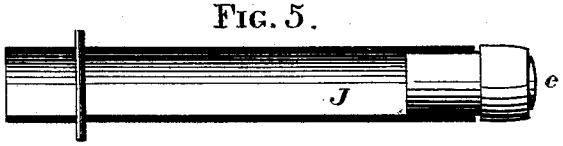
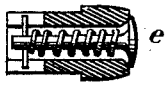


FIG. 6.



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UNITED STATES PATENT OFFICE.

LEWIS CUTTING, OF SAN FRANCISCO, CALIFORNIA.

MACHINE FOR FILLING CANS WITH MEAT.

SPECIFICATION forming part of Letters Patent No. 229,590, dated July 6, 1880.

Application filed November 18, 1879.

To all whom it may concern:

Be it known that I, LEWIS CUTTING, of San Francisco, in the county of San Francisco and State of California, have invented a certain new and useful invention or Improvement in Machines for Filling Cans with Meat, which invention is fully described in the following specification and accompanying drawings, reference being had thereto.

My invention has for its object to provide a machine for readily filling or stuffing cans with cut meats, poultry, &c., for preservation and transportation.

It consists of a cylinder divided longitudinally, one half of which is fixed to the sides of a frame, and the other half is made removable by suitable mechanism, which shuts down over the fixed portion when a suitable quantity of the material has been fed to the machine from an inclined chute or feeding-table in front of the cylinder. A piston or plunger is made to force or stuff the material into cans at the opposite end of the cylinder, all of which will hereinafter be more fully described.

Referring to the accompanying drawings, Figure 1 is a rear-end view. Fig. 2 is a front-end view. Fig. 3 is a side view. Fig. 4 is a longitudinal vertical section. Fig. 5 is a sectional view of the plunger. Fig. 6 is a sectional view of the plug of the plunger.

A is the frame, to the sides of which are connected the stationary semi-cylinder B, from one end of which projects a plunger pipe or tube, C.

In the sides of the frame, at the rear of the semi-cylinder, are made two vertical slots, *a a*, in which moves the cross arm or bar D, to which is connected the upper half or movable part of the cylinder. The said semi-cylinder moves freely up and down in the slots and between the two sides of the frame. This cylinder is hinged by arms *b b* and pins *b' b'* to a treadle or apron, E, the lower ends of the arms passing through slots in it, while the front end of the treadle is pivoted to the front or foot of the frame proper, and underneath the treadle is a flat spring, F, which serves to throw back the treadle when it is borne down by the foot of the operator and released.

A stationary plate, G, is connected to the sides of the frame, and to the front edge of this is hinged the feeding-table H, which permits this feeding apron or table to be moved freely up and down, to close up the aperture which may remain between the movable and stationary semi-cylinders when the upper part is borne down over the lower part.

The hinged feed-table, as it is raised, forces the material to be canned under the upper cylindrical half of the receptacle in which the plunger works previous to said upper half being depressed by the treadle. This is accomplished after the cylinder has received a sufficient quantity from the inclined chute or table by pressing down the treadle by the foot of the operator, in which position it is held by a notch on the end of an arm, I, engaging a lug, *c*, on the side of the frame. This arm is pivoted to the front end of the treadle.

The plunger or piston J is composed of a hollow tube made so as to fit the feeding-cylinder when the two parts are brought together. Its inner end is provided with a hollow plug, in which is placed a valve, *e*, kept to its seat at the end of the plug by a spiral spring, so that if any suction or sticking should take place at the end of the plunger in pushing forward the meat or other material to be canned this valve will be drawn forward and admit the necessary air for the release of the piston.

The operation of my machine is as follows: The treadle being released from the lug at the side of the frame and the movable cylinder raised up, the meat or other material to be canned is placed upon the inclined table H, and passes down into the stationary part of the cylinder, and when a sufficient quantity has been introduced the treadle is pressed down by the foot and the feeding-apron raised to a vertical position (shown in Fig. 4) simultaneously with it, which act compresses the material to be canned into a cylindrical and more compact form. The plunger resting in the extended tube at the side of the machine is then pushed forward and forces the material before it in a compact form into cans, which are placed and held securely in position opposite to the plunger at the opening in the frame on the opposite side of the machine.

By this device the plunger can be operated rapidly, as no suction or sticking to the meat is had, by reason of the relief-valve in its end.

By this means meat or other material can be easily and rapidly canned, and in a much better condition than when packed by hand or by means of a vertical plunger.

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

1. The combination of the upper or movable semi-cylinder with the cross-bar D, treadle E, arm I, lug *c*, and stationary semi-cylinder B, all arranged substantially as and for the purpose herein set forth.

2. In a can packing or stuffing machine, the inclined chute or feeding-table H, in combination with the semi-cylindrical sections of the receptacle, all arranged and operating substantially as herein set forth and specified.

3. In combination with the feeding-cylinder, formed of semi-cylindrical sections, in a can-packing machine, the plunger or piston J, provided with an outwardly-operating relief-valve, all constructed and operating substantially as herein described, for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 1st day of November, 1879.

LEWIS CUTTING. [L. S.]

Witnesses:
C. W. M. SMITH,
HOLLAND SMITH.