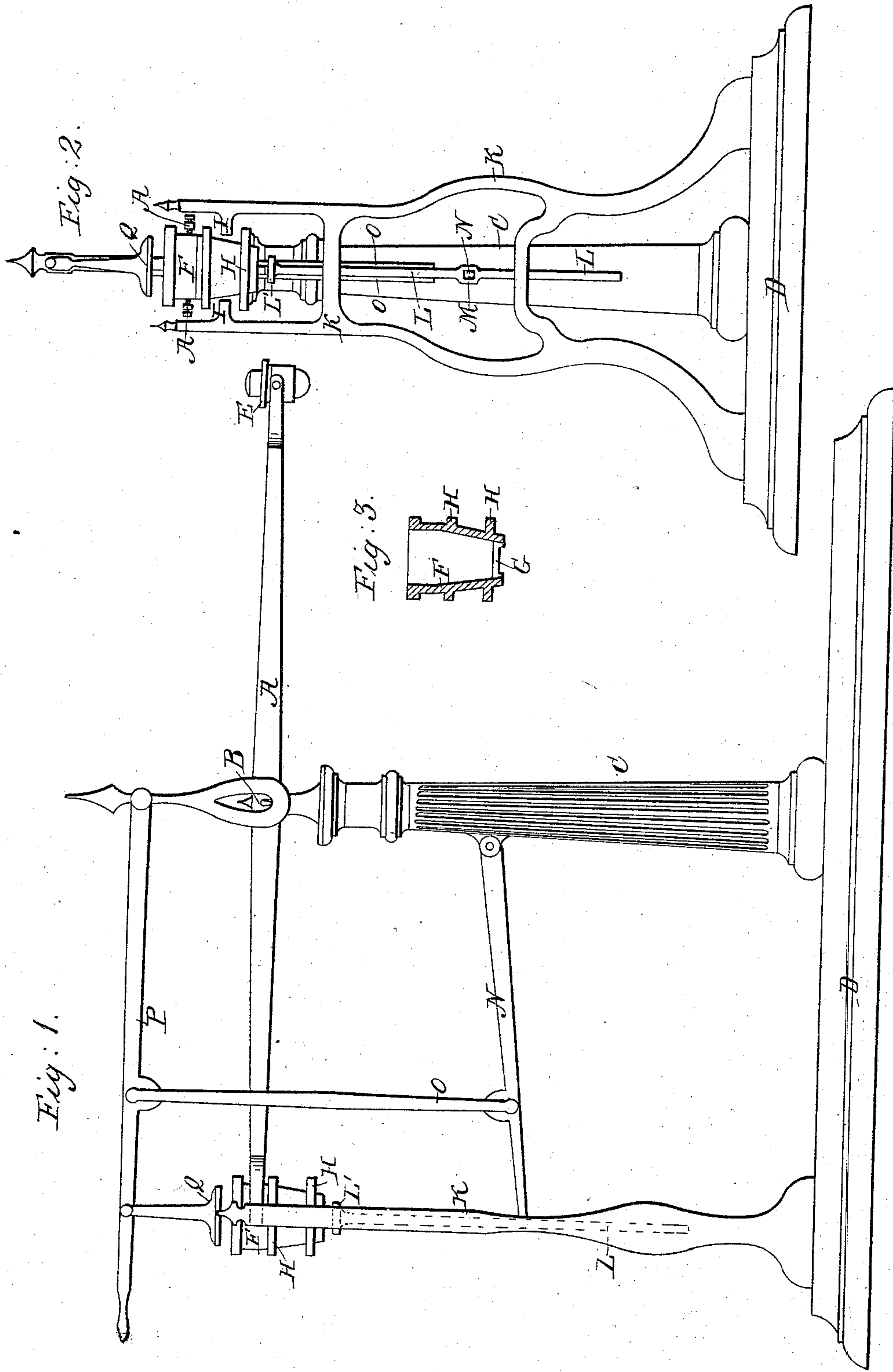


W. S. REINERT.

Butter Mold.

No. 10,896.

Patented May 9, 1854.



UNITED STATES PATENT OFFICE.

WM. S. REINERT, OF SPRING GARDEN, PENNSYLVANIA.

MACHINE FOR WEIGHING AND PRINTING BUTTER.

Specification of Letters Patent No. 10,896, dated May 9, 1854.

To all whom it may concern:

Be it known that I, WILLIAM S. REINERT, of Spring Garden, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Machine for Weighing, Forming, and Branding or Impressing With Any Desired Configuration Butter in Parcels, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a side elevation of the machine. Fig. 2 is an end view of the same. Fig. 3 is a section through the center of the vessel or mold in which the butter is weighed and printed or stamped.

Similar letters in the figures refer to corresponding parts.

The nature of this invention and improvement consists in suspending to one end of a scale beam or lever a circular or other formed vessel or mold, corresponding inside with the intended form of the butter to be weighed and printed, and counterbalanced by a suitable weight at the opposite end of the beam or lever, said vessel or mold being provided with a movable bottom, capable of being raised with the butter, when formed and stamped, by a button on the end of an upright rod, moved by a lever, connected to another lever above the beam or scale lever, to which upper lever, the pattern or stamp is attached, in such a manner as to enable the butter to be weighed and printed or stamped, and raised out of the mold or vessel when weighed, printed or stamped, with facility and despatch.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The scale beam or lever A, is suspended at its center by means of a V shaped fulcrum B, resting on curved surfaces formed on a casting, secured to the upper end of an upright column C, attached at its lower end to a suitable base D, in the usual or most convenient manner, and is forked at its ends, so as to allow of a dish or cup E, for sustaining the required weight, having a weight at its lower part to keep it in its proper position, being suspended by set screws between the prongs, at one end; and a metallic or other formed vessel or mold F, in which the butter to be weighted and printed is placed, to be suspended by set screws, upon which it can oscillate, in a similar manner,

between the prongs of the opposite forked end of said lever or scale beam. This vessel or mold F is exactly counterbalanced by the cup and weight E, at the opposite end of the lever or scale beam, and may be made circular or of any form desired, and straight or parallel with the center on its inner surface, from the top to about one third its height below the same, from whence it is made tapering to its bottom, in the form of a frustum of a cone, corresponding with the periphery or sides of the form to which it is intended to shape the butter, being closed at its bottom or lower end, by a circular plate or piston G, exactly fitting within the lower end of said vessel or mold F, and resting on the tapered surfaces of the inside of the same. It has circular flanges H, cast or otherwise secured to its outside periphery, a sufficient distance apart, and in such relation to projections or lugs I, formed on the inner parts of an upright frame K, secured to the base D, whose ends terminate between said flanges H, as to allow the vessel or mold F, to rise and fall a sufficient distance, to determine the weight of the butter placed within the same, but to prevent it moving beyond this distance. Immediately below the vessel or mold, and on a line with its center, is arranged a vertical rod L, having a button L', at its upper end, which fits in a corresponding cavity, formed in the under surface of the circular plate or piston G, which rod L, is supported and moved in guides, formed in, or secured to, the upright skeleton frame K, and is slightly enlarged at a point toward its lower end, where it is perforated to form a slot or mortise M, through which the end of a lever N passes, attached at its opposite end, by a pin, upon which it moves, as a fulcrum, to ears, projecting from the column C, upon which the scale beam is supported. This lever N, is also attached by means of two upright connecting rods O, to a lever P, of a somewhat similar character, placed above the main part of the machine, and attached at one end to the casting on the column C, by a pin upon which it moves, and having a handle at its opposite end, for moving it up and down, and with it the lever N, and its attachment. To the upper lever P, immediately above the vessel or mold F, is suspended by a stem or rod, a circular plate or piston Q, exactly fitting within the said vessel or mold, and carved

or figured on its lower surface, with such configuration or stamp, to be imprinted on the upper surface of the butter, as may suit the views or fancy of the operator.

5 The operation of this machine is as follows: The lever or scale beam A, being brought to an exact counterbalance, a weight corresponding with the intended weight of the parcels of butter to be weighed, formed
10 and branded, is placed in the dish or cup E, and the required quantity of butter to overcome it, is filled in the vessel or mold F. The operator then depresses the handle of the upper lever P, causing the plunger
15 or piston Q to press the butter into the lower portion of the vessel or mold, and imprint or brand the upper surface of the same, with the configuration on the lower surface of said piston or plunger. This done,
20 the operator raises the lever P, and withdraws the piston or plunger Q from the mold or vessel F, which causes the lower lever N, to raise the vertical rod L, and by pressing the button L', at its upper end,
25 against the circular plate or piston G, forming the bottom of the mold, will first raise the vessel or mold, and its contents, until its lower flange H, strikes the projections or lugs I, and upon being arrested by

them, will raise the circular plate or piston 30 G, above the top of said vessel or mold F, and with it the butter in one mass, of the form desired, to enable it to be removed, and other parcels to be successively formed, in the manner stated. 35

This machine will not only answer to weigh and press butter, but can also be applied to weighing and pressing tobacco and other substances.

What I claim as my invention and desire 40 to secure by Letters Patent, is—

The combination of the mold or vessel for containing the butter, suspended to the lever or scale beam, and its attachments, plunger or piston, having the desired configuration 45 on its lower surface, and upright rod and button, for raising the circular plate or piston in the bottom of the said vessel or mold, together with the levers, for operating the same, for weighing, forming and branding, 50 or imprinting with any desired configuration, the butter in parcels, and discharging the same from the vessel or mold, substantially in the manner herein fully set forth.

WM. S. REINERT.

Witnesses:

STEPHEN N. SIMMONS,
THOS. HICKMAN.