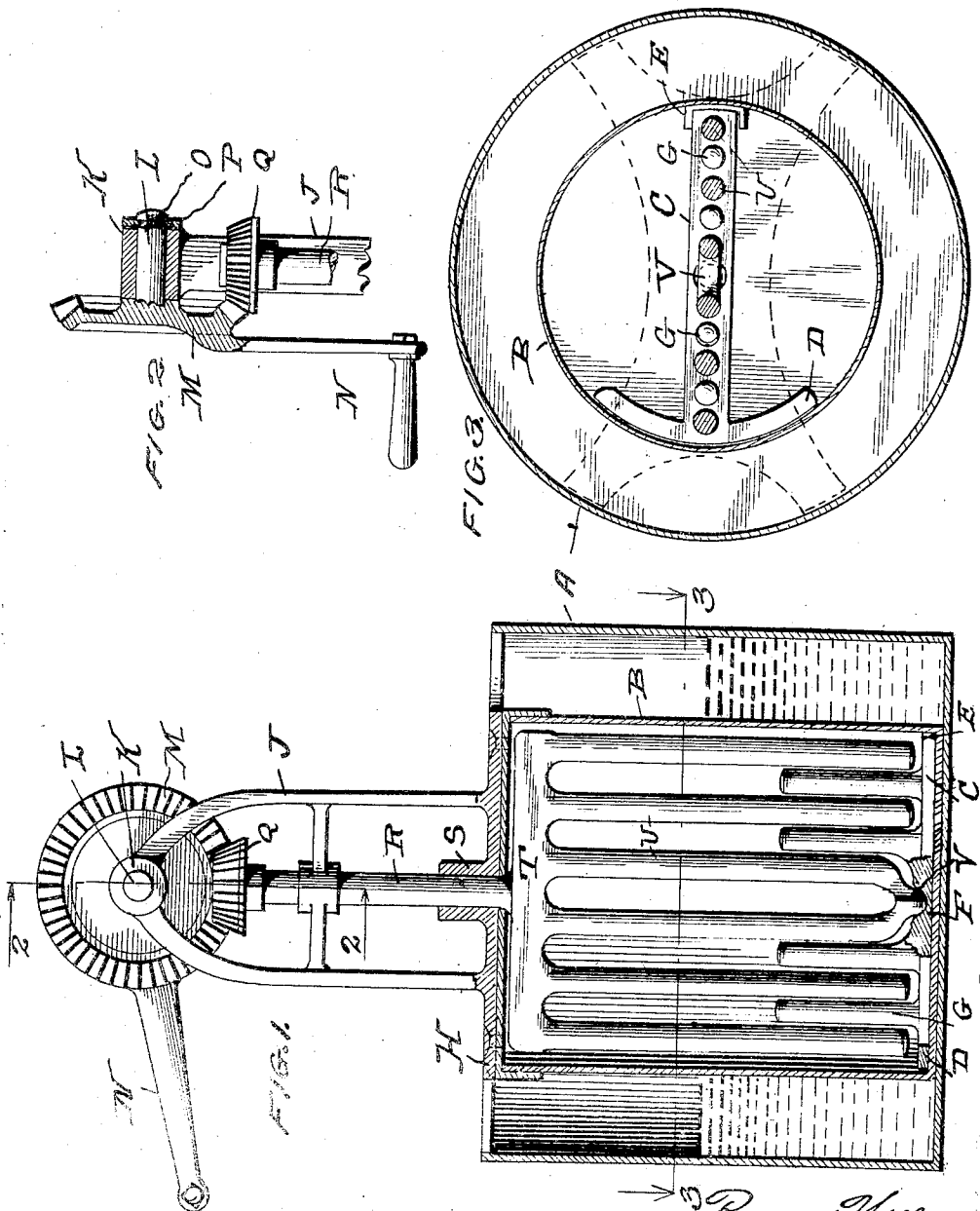


R. WILLIAMS.
 BUTTER MAKING MACHINE.
 APPLICATION FILED APR. 15, 1909.

929,908.

Patented Aug. 3, 1909.



WITNESSES
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UNITED STATES PATENT OFFICE.

ROGER WILLIAMS, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR OF ONE-FOURTH TO WILLIAM B. DE WITT, OF GILSON ECHO, MARYLAND, ONE-FOURTH TO GEORGE W. EMERY, OF SEAFORD, DELAWARE, AND ONE-HALF TO FRANKLIN J. FREA, OF WASHINGTON, DISTRICT OF COLUMBIA.

BUTTER-MAKING MACHINE.

No. 929,803.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed April 15, 1909. Serial No. 430,614.

To all whom it may concern:

Be it known that I, ROGER WILLIAMS, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful improvements in Butter-Making Machines, of which the following is a specification.

My invention relates to improvements in butter making machines, and the leading object of my invention is the provision of a machine of the most simple, cheap and durable construction which will produce from a pound of butter and a pint of milk two pounds of butter, and which product will be produced in a very short time and will be of first class quality.

Another object of my invention is the provision of a machine of the character mentioned which will comprise very few parts, insuring in addition to durability and inexpensiveness, a machine which may be easily cleansed and taken apart and assembled and which may be used for producing butter, or for any other purpose where it would operate practically and effectively.

With these objects in view, my invention consists of a machine of the character stated embodying novel details of construction, combination and arrangement of parts for service substantially as disclosed herein.

Figure 1, represents a vertical sectional view of a complete machine constructed in accordance with and embodying my invention. Fig. 2, represents a horizontal sectional view on line 2—2 of Fig. 1, and Fig. 3, represents a detailed view of a part of the mechanism comprising the machine.

In the drawings: the letter A designates a pail or receptacle of suitable size for the desired purpose, in which is concentrically fitted the vessel B. Mounted in the bottom of the vessel is the bar C, formed with the segment or head D at one end, and having its other end retained in the cleat or keeper E, and said bar is provided with a central socket or bearing F, and with a series of short vertical arms or posts G.

To the receptacle is secured the frame H, provided with the vertical yoke J, having in its upper end the horizontal bearing K, in which is mounted the short horizontal shaft L, said shaft having on one end the driving beveled gear M, and the operating crank N,

and having its other end provided with a groove O, in which is sprung a securing washer or ring P. Meshing with the driving gear is the beveled pinion Q, carried at the upper end of the shaft or stem R, which extends downward and rotates in the bearing sleeve S, formed on the cover, and said stem is formed with the cross-head T, having the depending arms or paddles U, the central pair of paddles being connected or formed integral at their lower end and provided with a tapered lower end V, which is seated and forms a bearing in the socket F of the bar C.

In operation, a pound of butter and a pint of milk are placed in the vessel, when it is desired to produce two pounds of butter, a like proportion being used under all conditions according to the amount of butter to be produced, and in the space surrounding the vessel is placed a suitable quantity of luke-warm water, and upon turning the crank and revolving the agitator, a thorough commingling of the butter and milk is effected, and in a few moments time the mass congeals or intermingles and produces the butter in the proportion stated, making two pounds of first class butter from one pound of butter and a pint of milk.

It is evident that I produce a machine which can be manufactured at a very small price and which is thoroughly efficient and practical in every particular.

I claim:

1. In a machine of the character described, consisting of an outer receptacle, a vessel arranged therein, agitators or arms in said vessel, a cross-head having arms or paddles operating in conjunction with the arms of the vessel, a stem formed on said cross-head, a beveled gear on said stem, and a shaft having an operating crank and a driving gear meshing with the beveled gear or pinion.

2. In a machine of the character described, the combination of an outer receptacle, a vessel arranged therein, a series of short arms mounted in said vessel, a cross-head carrying arms or paddles operating in conjunction with the arms of the vessel, the central arms of the cross-head being connected and bearing at their lower end in the vessel, a stem projecting upward from the cross-head, a beveled pinion carried by the

stem, a cover fitting the receptacle and
formed with a central bearing for the stem, a
frame connected to the cover, a shaft having
an operating crank and mounted in said
5 frame, and a driving beveled gear carried by
the shaft and meshing with the beveled
pinion.

In testimony whereof I affix my signature,
in presence of two witnesses.

ROGER WILLIAMS.

Witnesses:

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H. K. PARSONS.