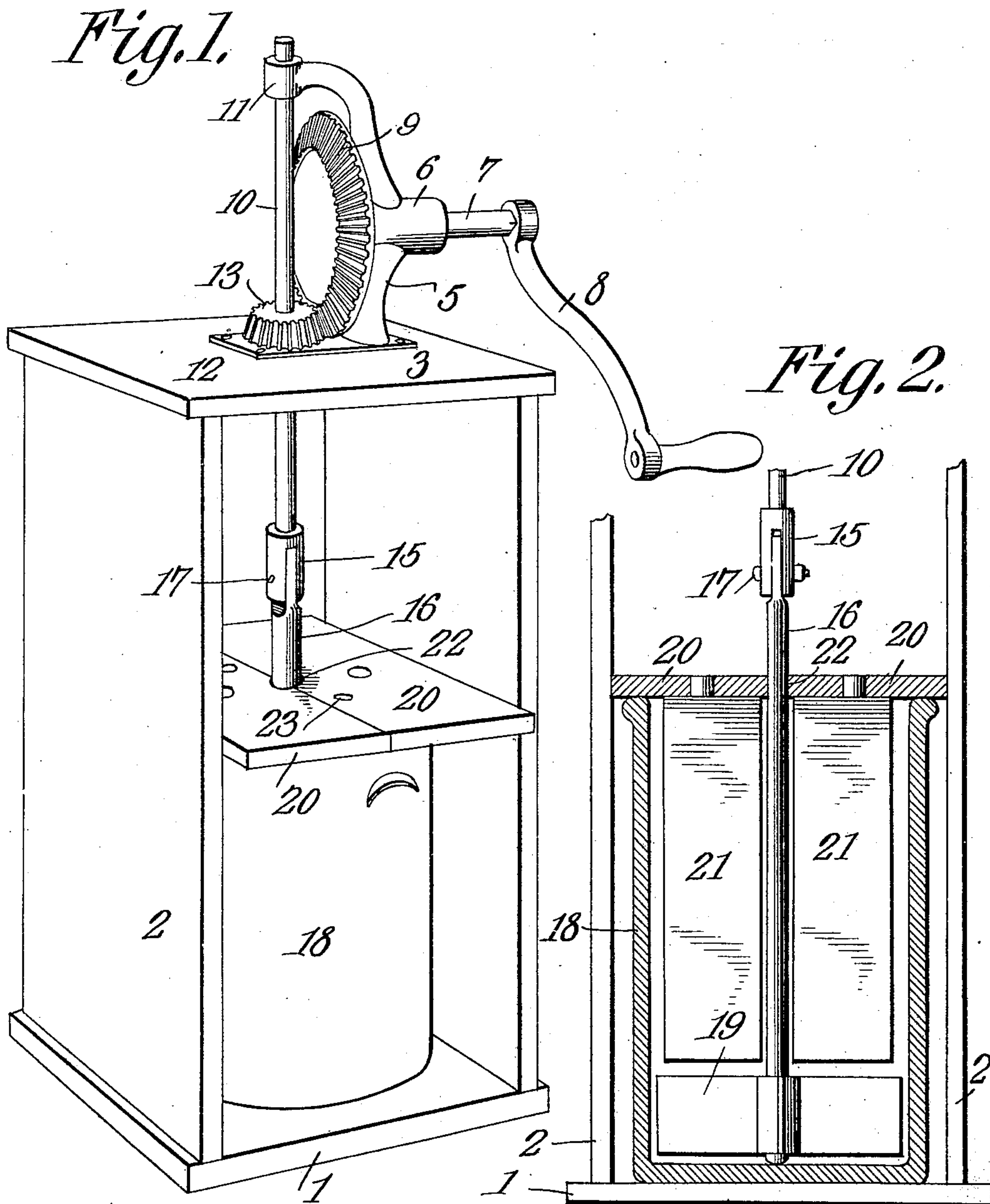


No. 859,340.

PATENTED JULY 9, 1907.

T. SCATES.
CHURN.

APPLICATION FILED OCT. 31, 1906.



UNITED STATES PATENT OFFICE.

TOBE SCATES, OF McKENZIE, TENNESSEE.

CHURN.

No. 859,340.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed October 31, 1906. Serial No. 341,482.

To all whom it may concern:

Be it known that I, TOBE SCATES, a citizen of the United States, residing at McKenzie, in the county of Carroll and State of Tennessee, have invented a new and useful Churn, of which the following is a specification.

This invention has relation to churns and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

10 The object of the invention is to provide a churn frame within which a receptacle of any configuration, square, circular or ovate may be placed for holding the cream. Means for rotating a dasher shaft is mounted upon the frame and is provided with a notch within
15 which the upper end of the dasher shaft may be laterally inserted and secured therein. A cover for the receptacle is provided, said cover is made in sections and each section is provided with a breaker adapted to enter the receptacle. The sections when placed together have a dasher shaft opening and are retained
20 against rotation by the churn frame.

In the accompanying drawing:—Figure 1 is a perspective view of the churn; and Fig. 2 is a vertical sectional view of the cream receptacle and lower part of
25 the frame.

The churn frame comprises the base 1 upon which is erected the vertical sides 2, 2. The top 3 connects the upper ends of the sides 2, 2 together. The bearing casting 5 is attached to the top 3 of the churn casing and is
30 provided with the horizontal bearings 6 in which is journaled the shaft 7 the outer end of which is provided with a crank handle 8. The gear wheel 9 is fixed to the shaft 7. The vertical shaft 10 is journaled in the bearing 11 provided at the upper end of
35 the casting 5 and in the bearing 12 provided at the lower portion of the said casting. The gear wheel 13 is fixed to the shaft 10 and meshes with the gear wheel 9. The lower end of the shaft 10 is provided with a socket 15 provided with vertical openings which are
40 adapted to receive the upper end of the dasher shaft 16. The cross pin 17 fixes the dasher shaft to the shaft

10. The receptacle 18 (of any desired configuration) rests upon the base 1 and is located between the vertical sides 2, 2 of the churn frame. The dasher shaft 16 enters the said receptacle 18 and is provided at its
45 lower end with the dasher blades 19. The closure for the receptacle 18 is composed of a number of sections 20 each of which is provided with the depending breaker 21. When the said sections 20 are placed together upon the top of the receptacle 1 they meet at
50 their edges and also bear against the inner sides of the vertical pieces 2, 2 which retain the closure as an entirety against rotation on the top of the said receptacle 18. Each said section 20 is also provided with a
55 recess 22. The said recess of all the sections register and form an opening for the dasher shaft 16. Each of the said sections 20 is also provided with an opening 23 for the admission of air to ventilate the contents of the churn during the churning operation. In other
60 words, all of the said sections 20 and their attachments are of the same configuration and dimensions.

From the foregoing description it is obvious that as the dasher blades 19 rotate under the breakers 21 that the contents of the churn is violently agitated against the depending breakers which are held in fixed position by the closure sections engaging the inner sides
65 of the churn frame.

Having described my invention what I claim as new and desire to secure by Letters-Patent is:—

A churn comprising a frame having a base and vertical
70 sides, a dasher operating mechanism mounted upon the frame, the base of the frame serving as a receptacle support, a receptacle closure composed of sections which fit together at their edges and fit snugly within the vertical
75 sides of the churn frame and being retained against rotation by the said sides, each said closure section having a depending breaker adapted to enter the receptacle, and all portions of its under surface lying in the same plane.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two
80 witnesses.

TOBE SCATES.

Witnesses:

M. M. MITCHELL,
F. B. DUDLEY.