

(No Model.)

2 Sheets—Sheet 2.

J. C. BUDD.  
CHURN.

No. 505,026.

Patented Sept. 12, 1893.

Fig. 3.

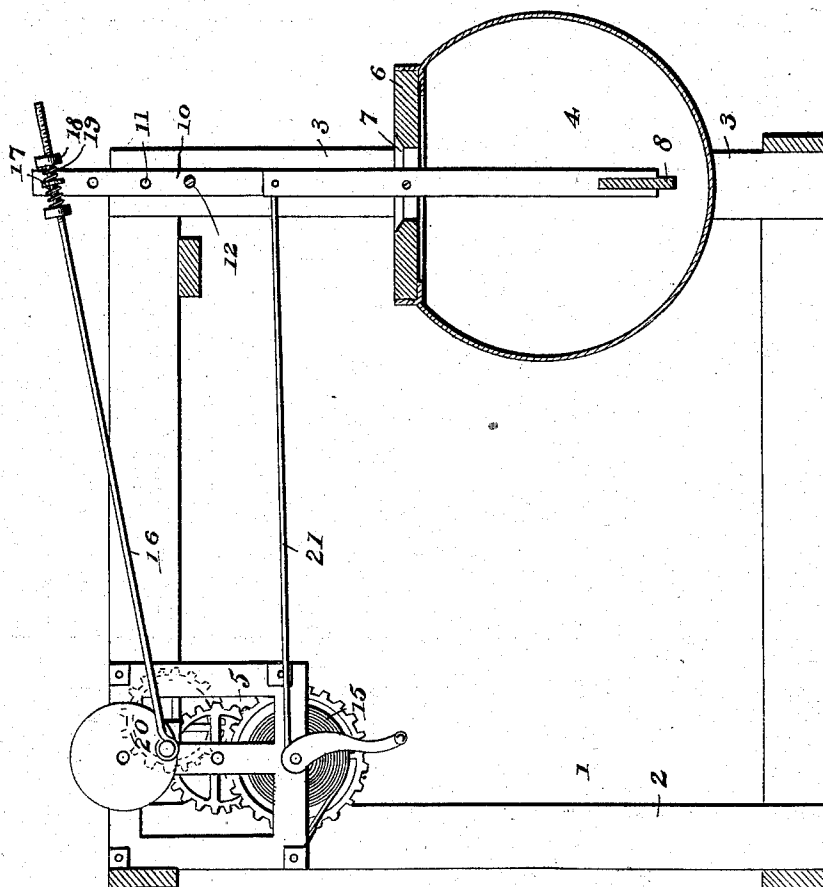
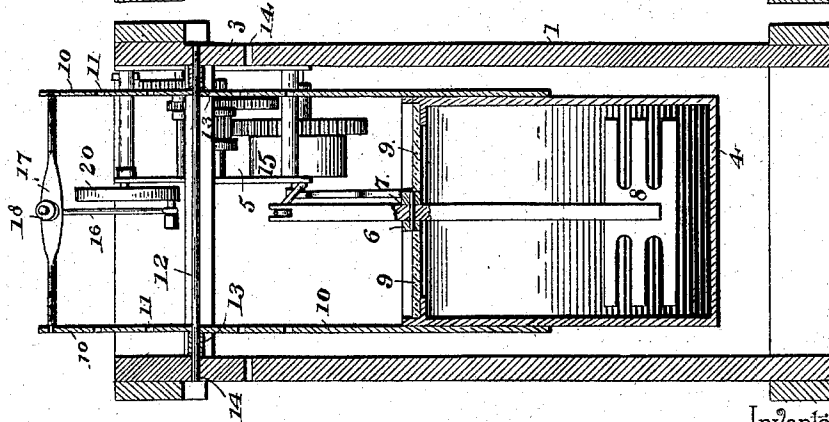


Fig. 2.



Witnesses

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By his Attorneys,

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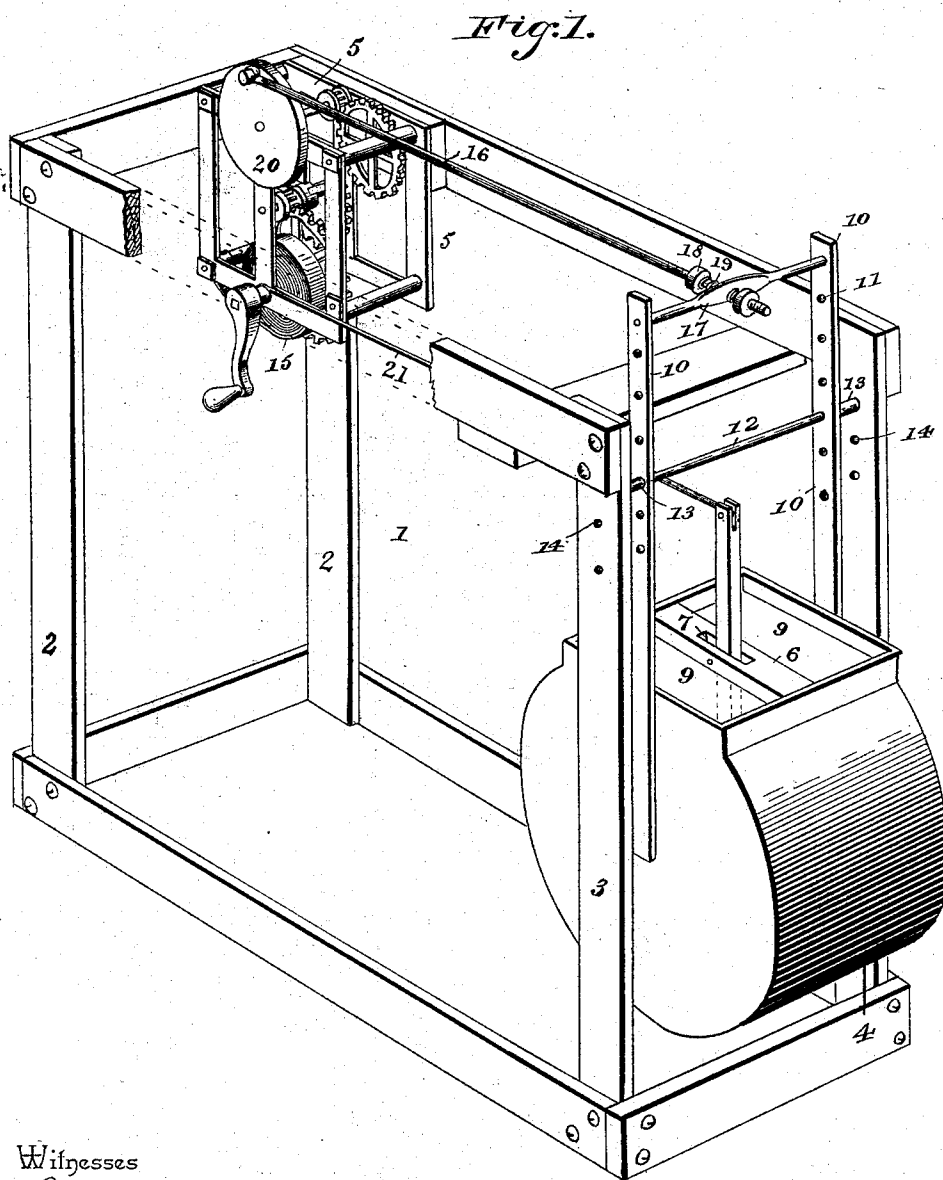
(No Model.)

2 Sheets—Sheet 1.

J. C. BUDD.  
CHURN.

No. 505,026.

Patented Sept. 12, 1893.



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# UNITED STATES PATENT OFFICE.

JOHN CORWIN BUDD, OF DEFIANCE, OHIO.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 505,026, dated September 12, 1893.

Application filed February 2, 1893. Serial No. 460,727. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN CORWIN BUDD, a citizen of the United States, residing at Defiance, in the county of Defiance and State of Ohio, have invented a new and useful Improvement in Churns, of which the following is a specification.

The invention relates to improvements in churns.

10 The object of the present invention is to simplify and improve the construction of churns, and to enable them to be operated by a light power, and to produce butter rapidly.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

20 In the drawings—Figure 1 is a perspective view of a churn constructed in accordance with this invention. Fig. 2 is a transverse sectional view. Fig. 3 is a longitudinal sectional view.

25 Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a rectangular supporting frame consisting of corner posts 2 and 3, and top and bottom horizontal bars connecting the 30 posts at their upper and lower ends. The frame supports at its front an oscillating churn body 4 which is operated by a motor 5 located at the back of the frame at the top thereof.

35 The churn body is substantially cylindrical, but may be of any other desirable configuration. It has a flat open top at which is arranged a bar or top piece 6, which has a slot 7 to receive an oscillating dasher 8. The 40 stem of the dasher is arranged in the slot of the top piece 6 and is pivoted there to; and the churn body is provided at opposite sides of the top piece 6 with transparent cover plates 9, which permit the contents of the churn to 45 be readily inspected.

Extending upward from opposite sides of the churn body are suspension bars 10, which are provided with series of perforations 11 adapted for the reception of a pivot rod 12, 50 whereby the oscillating churn body is adjustably suspended in the frame. The pivot

rod is provided at each end with spacing sleeves 13, interposed between the corner posts 3 and the suspension bars of the churn body to prevent the suspension bars slipping 55 laterally on the pivot rod. Each of the corner posts 3 is provided with perforations 14 to facilitate the adjustment of the churn body.

The motor, which is operated by a spring, 15, has a pitman 16 which is connected with 60 the suspension bars by a cross-rod 17, journaled in the top perforations of the suspension bars and provided with a central opening to receive the front end of the pitman. The front end of the pitman is threaded to 65 receive nuts 18, and spiral springs 19 are disposed on the pitman and interposed between the cross-rod and the nuts. The rear end of the pitman rod is connected to the wrist pin or a crank disk 20 of the motor, which in- 70 stead of being operated by a spring may be readily actuated by a weight. As the churn is oscillated the dasher is also oscillated within the churn body by means of a substantially stationary rod 21, which has its 75 rear end secured to the frame of the motor, and its front end pivoted in a bifurcation of the upper end of the stem of the dasher. By this construction the contents of the churn body are thoroughly agitated and enables but- 80 ter to be quickly produced.

It will be apparent that the churn is simple and comparatively inexpensive in construction, and it will be noticed that the churn body itself serves as a regulator or governor as 85 it is capable of vertical adjustment by means of the suspension or pendulum bars.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or 90 sacrificing any of the advantages of this invention.

What I claim is—

1. In a churn, the combination of a supporting frame, an oscillating churn body pro- 95 vided with upward-extending suspension bars pivotally connected to the frame and extending above the pivotal point, a dasher arranged within the churn body and having a stem pivoted to the top thereof and projecting 100 above the same, a motor having a pitman connected with the suspension bars above their

pivotal point and adapted to oscillate the churn body, and a stationary rod connected with the stem of the dasher above the pivotal point of the same, substantially as described.

5 2. In a churn, the combination of a supporting frame, an oscillating churn body provided with upward extending suspension bars, a cross-rod journaled in their upper ends and having an opening, a motor having a pitman  
10 arranged in the opening of the cross-rod and threaded thereat, nuts arranged on opposite sides of the cross-rod and screwed on the threaded portion of the pitman, and spiral springs disposed on the pitman and arranged  
15 between the nuts and the cross-rod, substantially as described.

3. In a churn, the combination of a supporting frame, an oscillating churn body, the

suspension bars extending upward from opposite sides of the churn body and each provided with a series of perforations, a pivot rod arranged in perforations of the suspension bars, a cross-rod journaled in the upper ends of the suspension bars, a motor having a pitman connected with the cross-rod, an oscillating dasher mounted in the churn body and having a stem extending above the body, and a stationary rod connected with the stem of the dasher, substantially as described.

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

JOHN CORWIN BUDD.

Witnesses:

L. E. GRIFFIN,  
MAMIE I. HALLER.