

(No Model.)

I. S. & W. O. BUNKER.
CHURN.

No. 500,990.

Patented July 4, 1893.

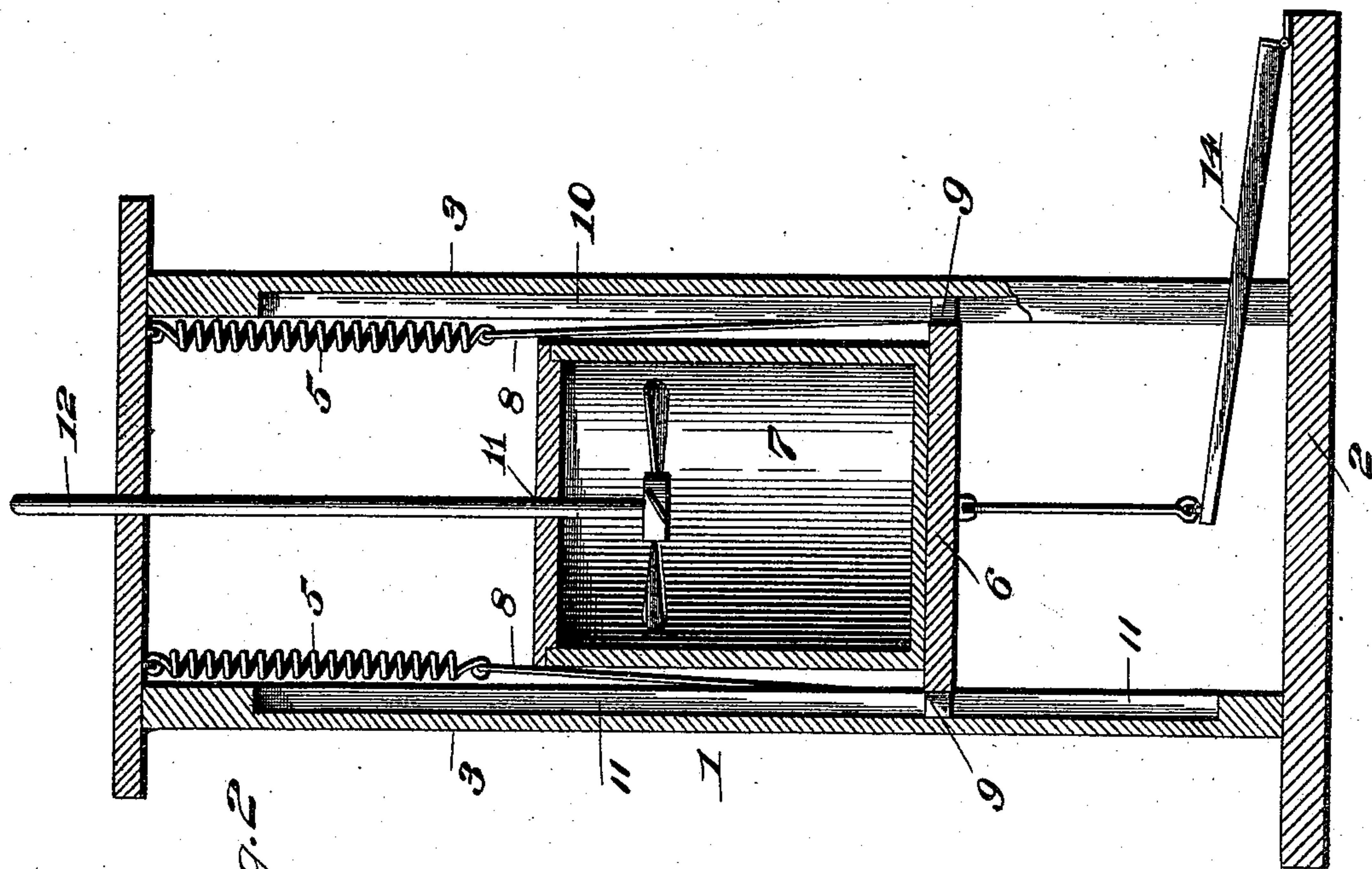


Fig. 2

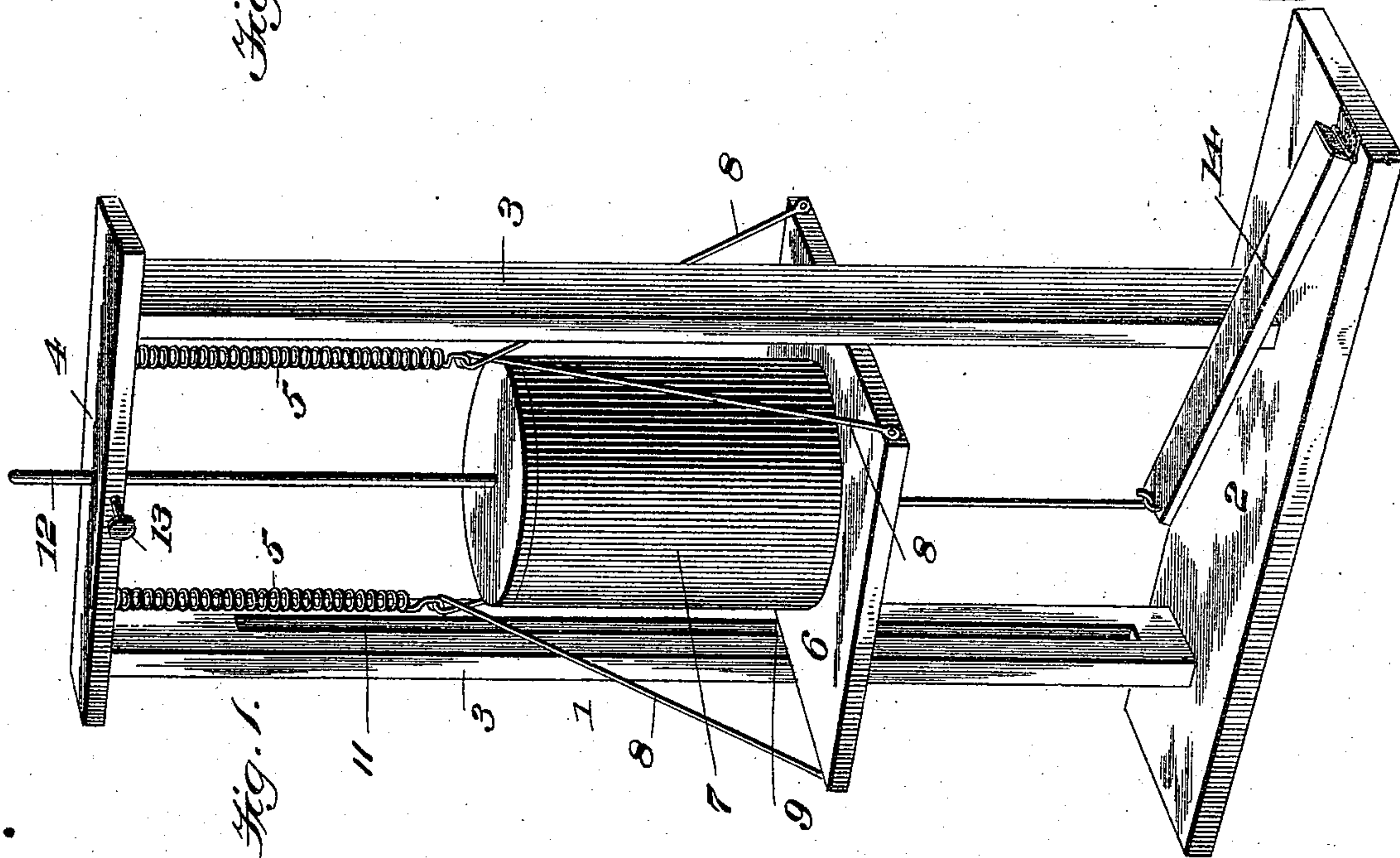


Fig. 1

Witnesses

[Signature]
[Signature]

By Their Attorneys,

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Inventors

Ira S. Bunker
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UNITED STATES PATENT OFFICE.

IRA S. BUNKER AND WILLIAM O. BUNKER, OF NEVADA, MISSOURI.

CHURN.

SPECIFICATION forming part of Letters Patent No. 500,990, dated July 4, 1893.

Application filed May 14, 1892. Serial No. 432,979. (No model.)

To all whom it may concern:

Be it known that we, IRA S. BUNKER and WILLIAM O. BUNKER, citizens of the United States, residing at Nevada, in the county of Vernon and State of Missouri, 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 butter to be quickly produced with a minimum amount of labor on the part of the operator.

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 claim 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 central vertical sectional view.

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

1 designates a frame composed of a base 2, standards 3 rising from the base and a top cross-bar 4 connecting the upper ends of the standards and having depending from it springs 5 supporting a tray or rectangular board 6 upon which is placed a vertically reciprocating churn body 7. The lower ends of the springs 5 are connected to the upper end of converging supporting rods or wires 8, the lower ends of which are fastened to the supporting board or tray 6, and the latter is provided at opposite sides with lugs 9, which are arranged in vertical grooves 10 in the inner faces of the standards 3 of the frame, whereby the tray and the churn body is guided in its vertical movement.

45 The churn body is provided in its top with a central opening 11 through which passes a stationary adjustable dasher rod 12 carrying a dasher at its lower end and secured near its upper end in an opening of the top cross-bar 4 by a set screw 13 which renders the

dasher rod adjustable to suit the quantity of cream in the churn body.

50 A vertically reciprocating motion is imparted to the churn body by a treadle or foot lever 14 which is fulcrumed at its outer end, and has its inner end connected with the supporting board or tray 6 and adapted to be depressed by the foot to cause the churn body to move downward and to distend the springs 5. The contraction of the spiral springs 5 raises the churn body. This construction gives an easy motion to the churn body and enables butter to be quickly produced.

60 It will be seen that the churn body is placed upon the supporting board or tray 6 and that any form or churn body may be employed. The supporting springs 5 could be placed beneath the tray or supporting board 6 and the operation would be similar.

What we claim is—

70 In a churn, the combination of a frame comprising a base, vertical standards rising therefrom and provided in their opposed faces with longitudinal grooves, and a top cross-bar having an opening, a rectangular churn body supporting board provided at opposite sides with lugs arranged in said grooves, spiral springs arranged at each side of the frame and depending from the cross piece and connected with opposite sides of the churn body supporting board, a churn body removably mounted on the supporting board and provided in its cover with an opening, a dasher rod passing through the opening of the cover and provided at its lower end with a dasher and having its upper end adjustably secured in the opening of the cross-bar of the frame, and a treadle connected with the supporting board, substantially as described.

85 In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

IRA S. BUNKER.
WILLIAM O. BUNKER.

Witnesses:

W. T. LOW,
W. H. ROBINSON.