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No. 14,458.

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L. LEAVENWORTH.

Churn

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Patented March 18, 1856.



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N. PETERS. Photo-Lithographer, Washington, D. C.

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UNITED STATES PATENT OFFICE.

LUCIUS LEAVENWORTH, OF TRUMANSBURG, NEW YORK.

CHURN.

Note that the set of the set of

Specification of Letters Patent No. 14,458, dated March 18, 1856.

To all whom it may concern: H, is a cord which is passed through a Be it known that I, LUCIUS LEAVENWORTH, smaller part of the pulley F, (as seen by 45 of the village of Trumansburg, in the county the dotted line in No. 1,) so as to fasten it, of Tompkins and State of New York, have each end being wound in opposite directions 5 invented a new and useful Improvement in on the pulley, and attached to the ends of Machinery for Operating Churns; and I do the arc of the lever G. hereby declare that the following is a full I, is a handle or wrist pin in the lower end 50 and exact description of the same, reference of the lever G, to which may be attached a being had to the accompanying drawings, connecting rod from a rocking chain or 10 forming part of this specification. other power. No. 1, is a side view, No. 2, is a section J, is a shaft which is a center or fulcrum showing the dash, No. 3 is a front elevation. for the lever G. 55 A, is the churn which may be of any form K, is the frame which is fastened to the post L, by the ferrule N, which is also flator size. tened on the inside to prevent the frame B, is the staff to which is locked three 15from turning, and is further secured by the pieces in a triangular form, and on an angle vertically to the staff, thus forming the pin O. 60 dash, C, C, C. M, is a shaft on which the pulley F, is D, D, are pins fitting to the holes P, P, fastened.

The parts having been described, it re-

20 and to which are attached the cords or bands E, E, and are put into the staff on an angle so that the draft of the cords serves to retain them in their places.

E, E, are cords or bands which are at-25 tached to the pins D, D, in the staff, being wound on the staff in the same direction, (more or less, as the pins may be changed) in the holes,) and in opposite direction, in the grooves in the periphery of the pulley F. 30 The cords or bands may be lengthened or shortened either by changing the position of the pins in the staff, or by taking them up or letting them out at the place of fastening on the pulley, so if the cords are lengthened 35 and wound on the staff, the act of unwinding them will cause the staff to partly revolve, which rotary motion is greater or less, according to the amount of cord on the staff, which is guided in its motion by the 40 large groove in the pulley F, between the two grooves in which the cords run, the

mains to describe their action. By taking hold of the handle of the lever, and moving 65 it with a resiprocating motion, the cords attached to arc of the lever, will alternately wind and unwind on the pulley F, causing it to partially revolve in the direction of the lever, thus causing the cords E, E, to move 70 the staff with a reciprocating motion and by having cords wound on the staff imparting to it as they alternately wind and unwind a rotary motion.

What I claim as my invention, and de-75 sire to secure by Letters Patent of the United States, is—

The arrangement of the cords or bands attached to the pulley and also to the staff being wound on the staff to give a required 80 rotary motion, as described in the specification.

LUCIUS LEAVENWORTH. Witnesses:

staff being confined in the groove by the action of the cords or bands.

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WILLIAM A. ALLEN, JAMES E. ALLEN.

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