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## UNITED STATES PATENT OFFICE.

JOHN W. KERNODLE, OF WINSTON, NORTH CAROLINA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 332,614, dated December 15, 1885.

Application filed August 29, 1884. Serial No. 141,734. (No model.)

To all whom it may concern: through the arm D and plug or filling at the Be it known that I, JOHN W. KERNODLE, outer end of the spring E, thereby securing of Winston, in the county of Forsyth and the connection of the spring and the arm. 55 State of North Carolina, have invented cer-G is a link passing through the plug or spring 5 tain new and useful Improvements in Churns; filling F and around the lever C, the under and I do hereby declare that the following is part of which is provided with a notch, g, for a full, clear, and exact description of the inthe reception of the link G, the object of which vention, which will enable others skilled in is to connect the lever with the spring, so that 60 the art to which it appertains to make and use the elasticity of the latter will operate to re-10 the same, reference being had to the accompaturn the lever to the position shown after the nying drawings, and to letters of reference downstroke of the same. marked thereon, which form a part of this By reason of the perforations  $b^3$  in the dashspecification. er-rod B', the latter may be adjusted to bring 65 The object of this improvement is to prothe dasher in suitable position to have either 15 vide a churn-power of economical construca short or long stroke, and thus adapted to tion and simple operation that will relieve churning a greater or less quantity of cream. and expedite the labor of churning. These The agitators B<sup>2</sup>, by reason of being journaled results are attained by the mechanism illusto the dasher-frame, as set forth, will be given 70 trated in the drawings herewith filed as part a rotary motion by their movement through 20 hereof, in which the same letters of reference the cream, by which its transformation into denote the same parts in the different views. butter will be accelerated. By reason of the Figure 1 is a side elevation, partly in seclever C the dasher may be more easily forced tion, representing a churn embodying the feadownward through the cream, and as the re- 7: tures of my improvement. Fig. 2 is a front action of the spring E will materially assist in 25 view of the same. Fig. 3 is a perspective rep. returning the dasher to an elevated position, resentation of the dasher. it is obvious that the labor of churning will be A is the churn-box. largely diminished by the mechanism shown A' is the lid or cover, provided with knobs and herein described. 8c a, for convenience in removing and replacing Having explained the construction and op-30 the same. eration of my improvement, what I claim as B is a rectangular dasher-frame having its new, and desire to secure by Letters Patent, parts connected by any suitable means, and 1S---provided with a central piece,  $b^2$ , to which the In churns, the box A, having removable 85 dasher-rod B' is rigidly affixed. slotted cover A' and fuleral support D, in  $b^3$  represents perforations in the dasher-rod, combination with the lever C, pivoted at c to provided for a purpose hereinafter set forth. the support D, notched at g, and joined at  $c^2$  $B^2 B^2$  are agitators, diamond-shaped in crossto the dasher-rod, the spring E, having plugs section, and pivotally or loosely connected to at each end, and attached thereby, respectively, 90 the perforated ends of the dasher-frame by to the support D and lever C, rod B', having a 40 journals, as shown at b', Figs. 1 and 3. series of holes,  $b^3$ , to vary its stroke, and dash-C is an operating-lever having a slot, c', er B, having rotary agitators B<sup>2</sup>, journaled through which the dasher-rod B' is pivotally therein, diamond shaped in cross-section, the secured thereto by means of a bolt,  $c^2$ . whole co-operating in the manner and for the 95 D is an arm or fulcrum affixed to the churnpurpose set forth.

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45 box, and provided at its upper end with a slot of suitable depth for the reception of the end of the lever C, pivoted thereto by a bolt, c, as fully shown in Fig. 2. E is a spiral spring, provided at each end 50 with a wood or metal plug or filling, as shown at F, Fig. 1. f f represent pins transversely driven

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

JOHN W. KERNODLE.

Witnesses: P. H. BOOE, GEO. D. HODGIN.