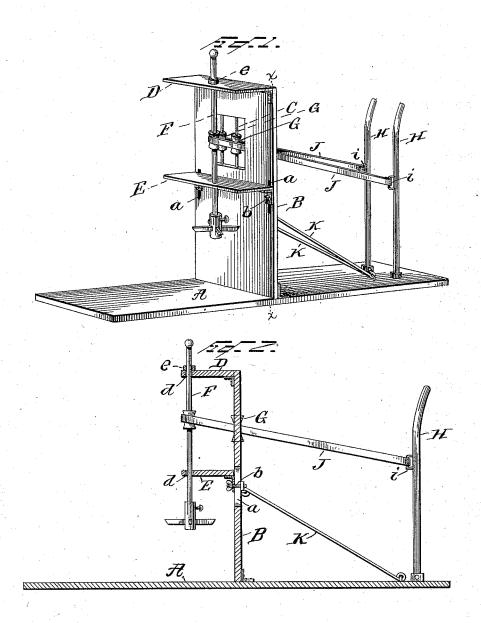
## L. H. JAMES.

CHURN.

No. 382,163.

Patented May 1, 1888.



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## United States Patent Office.

LINDORF H. JAMES, OF VANCEBURG, KENTUCKY.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 382,163, dated May 1, 1888.

Application filed September 29, 1887. Serial No. 251,023. (No model.)

To all whom it may concern:

Be it known that I, LINDORF H. JAMES, a citizen of the United States, residing at Vanceburg, Lewis county, Kentucky, have invented 5 new and useful Improvements in Churns, of which the following is a specification.

This invention relates to certain new and useful improvements in that class of churns wherein a vertical dasher is made to rotate to by means of lever or hand mechanism; and the same consists, substantially, in such features of construction, arrangement, and combination of parts as will hereinafter be more particularly described, and pointed out in the

The object of the invention is to provide a churn which shall possess the combined characteristics of simplicity, ease of manipulation, and cheapness in cost of manufacture as com-20 pared with many former inventions of a like character, all as will more fully hereinafter appear when taken in connection with the accompanying drawings, wherein-

Figure 1 represents a view in perspective 25 of a churn constructed in accordance with my invention; and Fig. 2 is a vertical longitudinal sectional view thereof, taken on the line x x, and showing the manner of adjustment of the lower shelf by which accommodation is had to 30 vessels varying in height.

Reference being had to the several parts by the letters marked thereon, A represents a suitable base or platform, supporting thereon a vertical standard, B, having formed therein 35 an opening, C, and provided at the top with a fixed or immovable projecting ledge or shelf, D. The said standard is provided near its opposite vertical edges with elongated slots a, and in these slots is adjustably supported to a shelf or ledge, E, having projecting from its rear edge screw-threaded bolts b, which enter the slots, and the said movable shelf is maintained at its different points of adjustment by means of thumb nuts screwed up 45 tightly against the front side of the standard, as shown. The purpose of having this shelf adjustable is to enable cans or vessels of va-

proper reception of the churn-dasher, the 50 said dasher F being supported in a vertical manner in openings d, formed in both the fixed and movable shelves, a nut or collar, e, being provided on its spindle to maintain the

rying height to be placed thereunder for the

same in position and prevent it from falling

Loosely supported in the opening C of the standard, between its upper and lower side, are two spools or pulleys, G G, while to the rear end of the platform or base are hinged or pivoted two movable hand levers, H H, 60 each being provided with a screw-eye, i, into which are received the ends of a band or belt, J, which passes around or over the pulleys as well, also, as the dasher, as shown in Fig. 1.

Extending from the rear side of the stand- 65 ard at suitable points, and fastened to the base or platform, are two stay-rods, K K, which serve to firmly brace the standard and prevent loosening of the same from the base.

As represented in both figures of the draw- 70 ings, it will be seen that the head carrying the blades of the dasher is removable from its shaft or spindle and secured in place by means of a set-screw.

From the foregoing description it will be 75 seen that all that is necessary to do is for the operator to grasp the two hand-levers, and by working them back and forth alternately the strap or band will cause the dasher to reciprocate back and forth within the churn.

Whenever it is desired to employ a vessel of very great height, the same can be readily accommodated by simply elevating the adjustable shelf.

Having thus described my invention, what I 8: claim as new, and desire to secure by Letters Patent, is-

In a churn, the combination, with a suitable base, of a standard vertically supported thereon, having at its top a fixed projecting shelf pro- 90 vided with an opening, and also formed with the opening C and elongated slots a, the movable shelf adjustable in said slots by means of screw bolts and nuts, spools or pulleys supported in the opening C, and a dasher supported 95 by the fixed and movable shelves, a belt or band passing over the dasher and pulleys, and movable levers to which the ends of the said band are attached, substantially as described.

Intestimony whereof I have hereunto set my 100 hand in the presence of two subscribing witnesses.

LINDORF H. JAMES.

Witnesses: THO. A. MITCHELL, E. B. WEBSTER.