

J. W. JONES.
CHURN.

Patented Aug. 30, 1881.

P. C. Dieterich
Fred. W. Dieterich

Jas. M. Jones
H. W. Fitzgerald
Smy

UNITED STATES PATENT OFFICE.

JOHN W. JONES, OF GRAYSVILLE, OHIO.

CHURN.

SPECIFICATION forming part of Letters Patent No. 246,515, dated August 30, 1881.

Application filed May 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. JONES, of Graysville, in the county of Monroe and State of Ohio, have invented certain new and useful
5 Improvements in Churns; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being made to the accompanying drawings, forming a part of this specification, and in which—

10 Figure 1 is a vertical section of my improved churn; Fig. 2, a top or plan view.

This invention relates to improvements in the class of reciprocating churns having for its object simplicity in construction, easily operated, and effective in operation; and the invention consists in the general construction and arrangement of parts, as will be hereinafter fully described.

20 To enable others skilled in the art to make and use my invention, I will now proceed to describe the exact manner in which it is carried out.

In the drawings, A represents the base-plate of the machine, to receive and support the
25 churn B and the four vertical posts C, said posts being connected together by longitudinal beams D and transverse beams E.

In bearings attached to the upper parallel beams, D D, revolves a shaft, *a*, provided at
30 one end with a crank, *a'*, to which is connected the upper end of the sectional dasher-rod *b b'*, which is detachably connected by a pin, *b²*. Centrally mounted upon said shaft *a* is a fly-wheel, G, for regulating the moving parts of the machine. Said shaft *a* is also provided
35 with a small gear-wheel, *c*, the teeth of which mesh into the teeth of the large gear-wheel *c'*, the shaft *d* of which is attached to bearings *d'* in the longitudinal beams F F, and provided
40 at one end with a hand-crank, *d²*, for operating the machine. One of the beams F is provided with a recess at *f* to allow the dasher-

rod to have free play in its vertically vibratory and reciprocating motion imparted thereto by the crank on the shaft *a*. 45

The lower parallel beams, D D, are respectively provided with a recess, *h*, and transverse hole *h'*, in which the guide-bar H is removably secured thereto by the button *g*. This guide-
50 bar is provided with a slot, *i*, and a projection, *m*, which enters the hole *h'* of one of the bars D when the guide-bar is secured in position. Through said bar H the lower section, *b'*, of the dasher-rod passes, and is guided in its
55 vertically-reciprocating movement, said guide-bar being easily and readily removed when it is desired to remove the contents of the churn. The dasher-rod is provided with the usual star-dasher, and the churn is provided with a tight-fitting cover, B'. 60

This machine is very effective in its operation, easily operated by hand-power, and very quick in its operation, it being geared up so as to permit the crank connected to the dasher-rod to receive five revolutions to one of the
65 hand-crank.

I am aware that gearing is very common for operating the dasher-rod of churns, and such I do not desire to claim, broadly, as my invention; but, 70

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the base-plate A and dasher-rod *b b'*, and operating mechanism, of
75 the recessed beams D D and removable slotted guide-bar H, having projection *m*, substantially as and for the purpose herein shown and described.

JOHN W. JONES.

Witnesses:

JOHN COX,

JNO. J. CRANFORD.