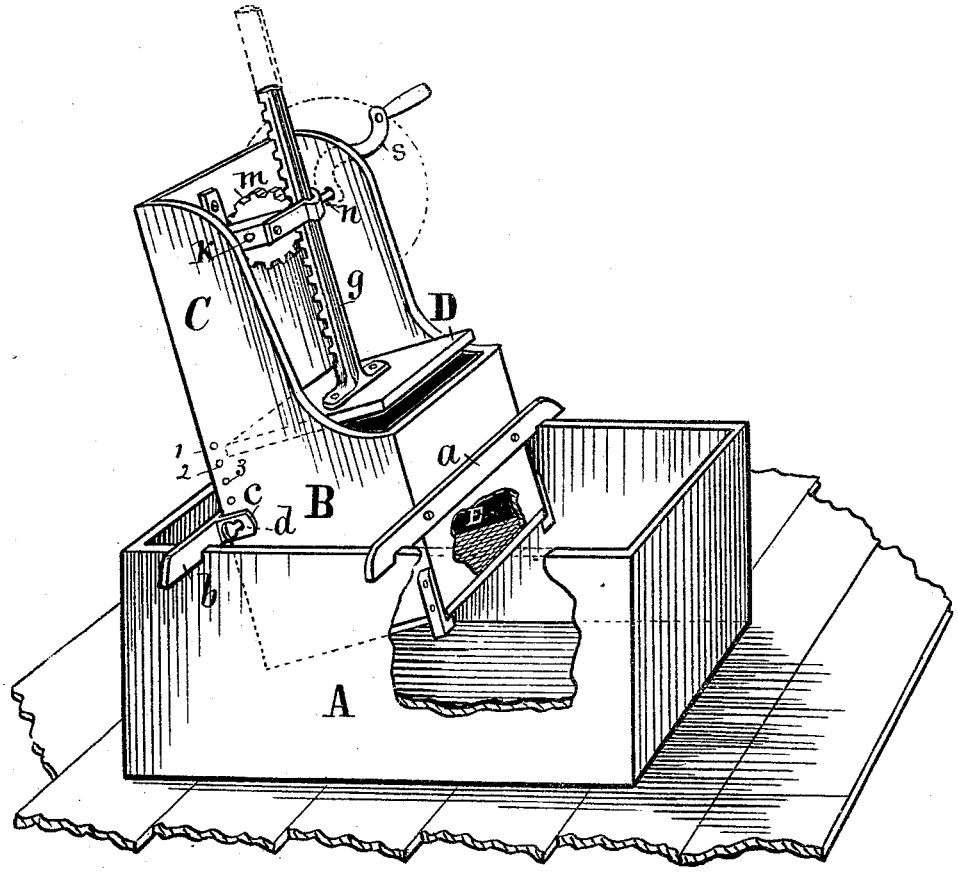
H. A. CLOW & H. C. HARTMAN.

BUTTER-WORKER.

No. 183,133. Patented Oct. 10, 1876.



Witnesses.
George M. Sargent
C. A. Johnson

Inventors, Henry A Clow
Henry C. Hartman
By Thomas G. Orwig, Atty.

JAMES R. OSGOOD & CO. BOSTON.

UNITED STATES PATENT OFFICE.

HENRY A. CLOW AND HENRY C. HARTMAN, OF DES MOINES, IOWA.

IMPROVEMENT IN BUTTER-WORKERS.

--Specification forming part of Letters Patent No. **183,133**, dated October 10, 1876 ; application filed February 18, 1876.

To all whom it may concern:

Be it known that we, HENRY A. CLOW and HENRY C. HARTMAN, of Des Moines, in the county of Polk and State of Iowa, have invented an Improved Butter-Worker, of which the following is a specification :

The object of our invention is to provide a simple, portable butter-worker for family and dairy use, that can be readily adjusted to be used conveniently in different locations, and by persons of different sizes. It consists in forming, suspending, and operating a box-formed barrel or hopper, carrying a plunger and its operating mechanism, a movable screen, and an adjustable bearer, all as hereinafter fully set forth.

Our drawing is a perspective view, illustrating the construction and operation of our invention.

A represents a tub or box, forming the base upon which our adjustable butter-worker is suspended, and into which the butter is discharged from the worker. B is the box-formed barrel in which the plunger operates. It may be made of wood and joined together in any suitable way, and vary in size, as desired. C is a three-sided extension at the top end of the barrel B, upon which extension the operating mechanism is mounted.

a is a cleat, secured to the front face of the barrel B in such a manner that its ends will extend over the sides of the base A, and form arms to support the barrel and its contents. *b* is an adjustable cleat on the rear face of the barrel. *c* is a bracket, fixed rigidly to the cleat *b* in such a manner that a set-screw or pin, *d*, may be passed through the bracket and into one of the series of holes 1 2 3 in the corner or edge of the barrel. A corresponding bracket, *c*, is required on the opposite end of the cleat. By this means the cleat *b* can be raised and lowered, and the barrel B tilted and fixed at various angles, to raise and lower the crank and barrel or hopper, as required for the size and convenience of the person operating the machine.

D is a follower or plunger, designed to follow and press the butter placed in the barrel, and work it through the movable screen E in the base of the barrel B.

g is a combined stem and rack fixed to the plunger. *k* is a wheel-bearer and plunger-guide fixed to the top extension C. *m* is a gear-wheel rigidly fixed to the shaft *n*, to be operated by the crank *s* on its end. Turning the crank *s* and the gear-wheel *m*, which engages the rack and stem *g*, actuates the plunger D.

A simple, portable, adjustable, and convenient machine is thus formed, by means of which butter may be rapidly and effectually worked. The relative positions of the base-box A and the barrel B make it convenient to lift the butter from the base to the barrel and press it through the screen repeatedly to work it thoroughly.

We are aware that a machine has been used to press and work butter through a barrel having a screen in its bottom ; but we claim that our manner of forming and suspending an adjustable barrel to carry a plunger and its operating mechanism is novel and greatly advantageous.

We claim as our invention—

A butter-worker operated by a pinion, *m*, and a rack, *g*, carrying a platen, D, moving in a portable case, B C, having a reticulated bottom, E, and said case adapted for seating upon and within a hollow frame and base by means of the cleats *a b*, substantially as and for the purposes shown and described.

HENRY A. CLOW.
HENRY C. HARTMAN.

Witnesses:
C. A. JOHNSON,
R. G. ORWIG.