

M. B. Atkinson,

Chair.

No. 101,810.

Patented Apr. 12, 1890.

Fig. 1.

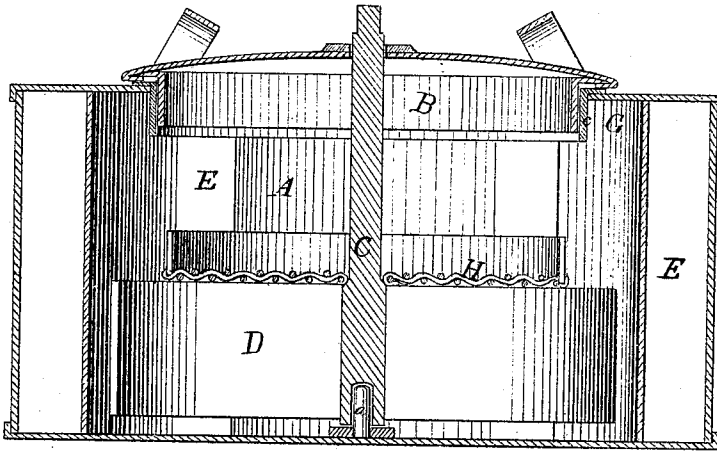
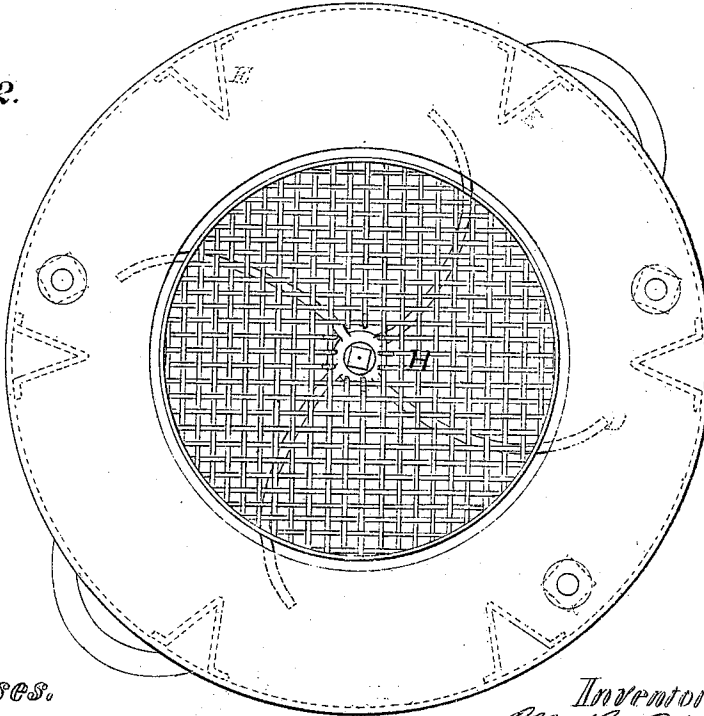


Fig. 2.



Witnesses.
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MAHLON B. ATKINSON, OF GEORGETOWN, DISTRICT OF COLUMBIA.

Letters Patent No. 101,810, dated April 12, 1870.

IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, MAHLON B. ATKINSON, of Georgetown, in the District of Columbia, have invented a new and valuable Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a central vertical section of my invention.

Figure 2 is top view of the same.

My invention consists in certain improvements in churns, by which it is intended to add efficiency to such machines, and promote economy and dispatch in the manufacture of butter.

A of the drawings represents a circular tub of galvanized iron, having a removable cover, B.

C is a standard arranged to rotate upon the gudgeon-pin *a*, which fits in a suitable socket in the bottom of the tub.

D represents a series of bent arms firmly attached to the standard, and which rotates therewith.

E represents a series of six or more upright posts or standards, arranged as shown in the inner side of the tub, in a triangular or Δ form.

Adjoining the flanches of the cover is a circular wall or flanch, *c*, which extends downward about two inches more or less from the top of the tub, and thereby forming a circular chamber, G, which extends entirely around the interior of the tub.

H represents a circular plate or disc, the bottom of which is constructed of wire cloth, and which has a circular rim, *n*, extending upward about one inch, more or less.

To operate my churn, I attach the ordinary beveled gearing to the top of the shaft C, and operate the same by a crank in the usual manner.

As the buckets or arms D move around, the fluid is forced upward into the chamber G, from whence it falls upon the disc H, which in turn aids in agitating such fluid, and which, when the butter is extracted from the fluid, gathers and holds it until it is ready for removal.

It will be observed that the disc H sits loosely upon the arms D. It will, therefore, rotate with said arms, or remain comparatively stationary thereon, according to the state of the fluid as to density, or the load of butter it sustains.

What I claim as my invention, and desire to secure by Letters Patent, is—

The churn herein described, having in combination the dasher D, sieve H, side-beaters E, and downward guide or flanch *c*, when constructed and arranged to operate as and for the purposes specified.

In testimony that I claim the above, I have hereto subscribed my name, in the presence of two witnesses.

MAHLON B. ATKINSON.

Witnesses:

E. W. ANDERSON,
D. D. KANE.