

UNITED STATES PATENT OFFICE.

N. H. SHERBURNE, OF CAMPTON, ILLINOIS.

CHURN.

Specification of Letters Patent No. 20,898, dated July 13, 1858.

To all whom it may concern:

Be it known that I, N. H. SHERBURNE, of Campton, in the county of Kane and State of Illinois, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, forming part of this specification, in the several figures of which similar characters of reference denote the same part.

Figure 1 is an elevation of the agitator. Fig. 2 is a section of same through shaft. Fig. 3 is a top view of agitator. Fig. 4 is a horizontal section on line *xx*.

The improvement here considered has reference to the agitator, and consists in two systems of blades rotating in opposite directions, and capable of separate lateral adjustment, as and for the purposes hereinafter to be set forth.

In the drawing S and S' are the shafts, the former hollow and the latter extending through the hollow shaft. Upon the heads of these shafts are pinions P P' meshing as shown in the drawing with wheel W, so as by the rotation of this wheel to turn in opposite directions. Secured to the lower extremities of these shafts are the heads H H' of the agitator, through which pass mortises for the reception of slides B. From these slides depend the blades C C' of the agitator; the dimensions and adjustment of the several parts being such that one system of blades C' shall move within the other system C.

The currents created by the opposite movement of the blades effect the production of the butter in a short space of time. When the aggregation of the oleaginous particles has progressed to a considerable extent, it is found beneficial to move the slides B of the outer blades so as to increase the distance between the two systems of blades for the better collecting of the newly formed butter.

This agitator has the advantage of being adapted to any vessel, as it is supported from the cover, and by means of the slides B, can be adjusted to the diameter of the vessel. The relative position of the two systems of blades being capable of adjustment as stated above.

Having described the invention and the operation of the same, I disclaim the mere rotation of the two parts of the agitator in opposite directions, and also the construction of agitators with movable parts, broadly considered. But

What I do claim is—

The combination of heads H H', slides B, blades C C' and opposite rotating shafts S S' constructed, arranged and operating substantially as, and for the purposes set forth.

In testimony whereof, I have hereunto signed my name before two subscribing witnesses.

N. H. SHERBURNE.

Witnesses:

GEO. PATTEN,
JOHN S. HOLLINGSHEAD.