(No Model.)

G. W. PARRISH.

CHURN DASHER.

No. 527,022. Patented Oct. 2, 1894.

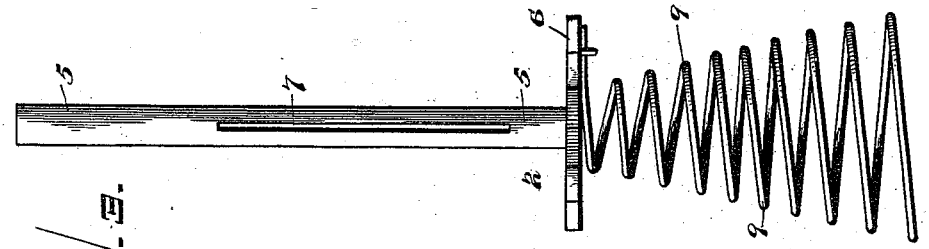

Fig. 5.

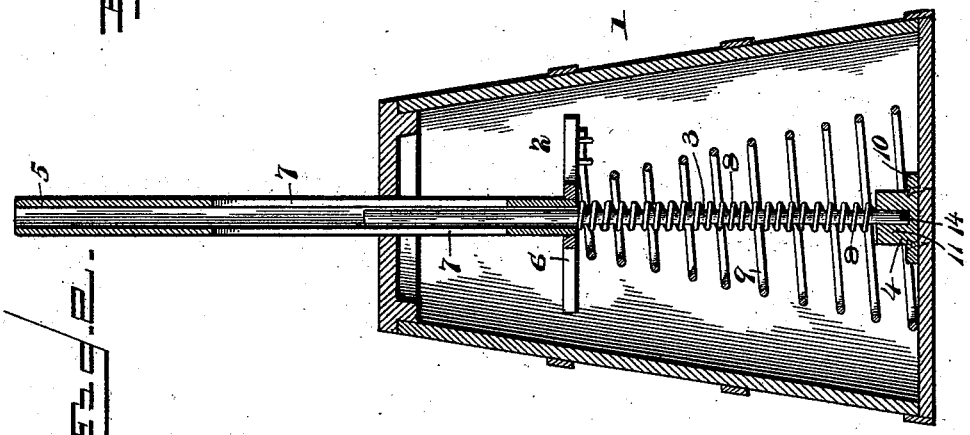

Fig. 2.

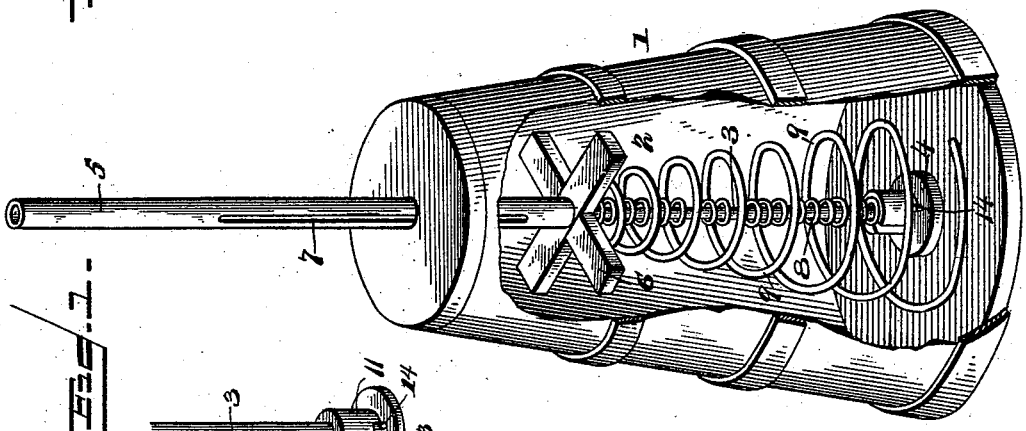

Fig. 1.

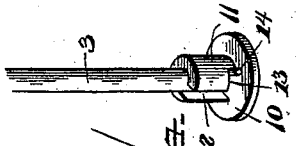

Fig. 3.

Witnesses
E. K. Stewart.

Inventor
George W. Parrish,

By Its Attorneys.
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

GEORGE WASHINGTON PARRISH, OF SALEM, VIRGINIA, ASSIGNOR OF ONE-HALF TO CHAS. D. DENIT AND FRANK G. WEBBER, OF SAME PLACE.

CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 527,022, dated October 2, 1894.

Application filed November 10, 1893. Serial No. 490,572. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON PARRISH, a citizen of the United States, residing at Salem, in the county of Roanoke and State of Virginia, have invented a new and useful Churn-Dasher, of which the following is a specification.

My invention relates to improvements in churn dashers, and has for its object to provide a simple, inexpensive and efficient device adapted to be used in connection with an ordinary churn body or tub, and constructed to simultaneously cut and whip the contents of the churn.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings: Figure 1 is a perspective view of the dasher embodying my invention applied in the operative position to a churn tub, the latter being broken away. Fig. 2 is a vertical central section of the dasher. Fig. 3 is a detail view of the dasher-head, hollow shaft, and spiral actuating spring. Fig. 4 is a detail view of the socket.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a churn tub, and 2 the dasher embodying my invention.

3 represents a vertical guiding post, which is arranged centrally in the churn tub and is stepped at its lower end in a socket 4, which is secured to the bottom of the tub; and 5 represents a hollow dasher-staff having a bore which corresponds in size with the guiding post, the dasher 6 being secured to the lower end of said staff. The staff is provided with a series of vertical slots 7, which penetrate to the bore thereof, and thus reduce the frictional contact of the surface of the guiding post with the bore of the staff and facilitate the removal of any foreign matter which may accumulate in the bore. Arranged between the under side of the dasher-head and the upper side of the socket 4, and coiled upon the intermediate portion of the guiding post, is a spring 8; and secured at its upper and smaller end to the under side of the dasher-head and at its lower end or base resting upon the bottom of the churn tub is a spiral spring 9, the latter being of sufficient diameter to receive and extend around the socket-plate and enable the spring to fold compactly when the dasher is depressed.

It will be understood that the combination of the coiled spring and spiral spring enables the dasher to be operated with ease and rapidity, and at the same time the spiral spring serves as a means of cutting the cream and hastening the separation of the butter and milk, the dasher-blades, meanwhile, acting as concentrators to collect the butter. It will be understood, furthermore, that in small churns, or when a small quantity of liquid is being treated, the guiding post, socket and coiled spring may be omitted, said parts being removable from the staff and dasher-head by withdrawing the guiding post from the bore of said staff.

The construction of the improved dasher is simple and it is obvious that the same may be constructed at a small cost.

The socket 4 comprises a base 10, and a barrel 11, said barrel being provided with a vertical slot 12, which communicates at its lower end with a transverse offset 13, and the guiding post which fits in the sleeve portion of the socket is provided with a lateral fixed pin 14, to engage said communicating slot and secure the post in an upright position. By this construction the guiding post is detachable from the churn body or tub for purposes of cleaning, &c., and to permit of the independent use of the dasher and spiral spring, as shown in Fig. 3.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having described the invention, what is claimed is—

The combination with a churn tub, of a socket fixed to the bottom of the tub at its center and having a vertical sleeve or barrel provided with a vertical slot terminating in a lateral offset, a guiding post adapted to fit in the sleeve or barrel of the socket and provided with a lateral pin to engage said slot

and offset, whereby the guiding post is detachable from the churn tub, a tubular slotted staff slidably fitted upon the guiding post, a dasher-head fixed to the lower end of the tubular staff, a coiled spring arranged between the dasher-head and the socket and coiled around the guiding post, and a spiral spring fixed at its upper end to the under side of the dasher-head and resting at its base upon the bottom of the churn tub around said socket, whereby the said spring is adapted to fold compactly when the dasher is depressed, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of witnesses.

GEORGE WASHINGTON PARRISH.

Witnesses:

C. L. HATCHER,

E. A. MCCAULEY.