R. K. PARKHURST.

CHURNS.

No. 181,006. Patented Aug. 15, 1876.

Fig. 1.

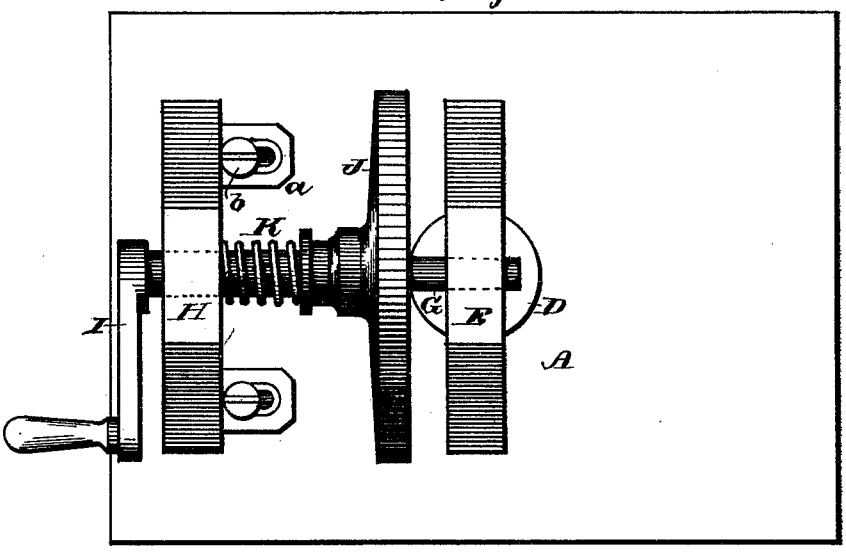
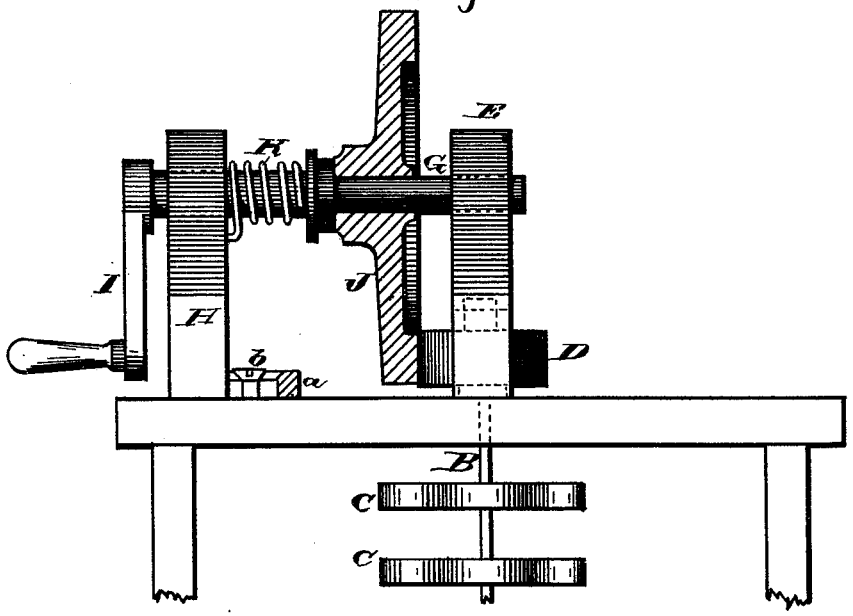


Fig. 2.



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REUBEN K. PARKHURST, OF OSKALOOSA, IOWA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **181,006**, dated August 15, 1876; application filed April 15, 1876.

To all whom it may concern:

Be it known that I, R. K. PARKHURST, of Oskaloosa, in the county of Mahaska and State of Iowa, have invented certain new and useful Improvements in Churns, of which the following is a specification:

My invention relates to that class of churns in which a series of dashers are attached to a vertical rotating shaft; and it consists in the construction and arrangement of the gearing for operating the same, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side elevation, partly in section, of my invention.

A represents the lid of a churn, with vertical shaft B passing through the center thereof, said shaft being, within the churn, provided with dashers *c c*. On the shaft B, above the lid, is secured a friction-wheel, D, and over the same is a slotted or forked standard, E, secured to the top of the lid. In this standard is placed the inner end of a horizontal shaft, G, the outer end being supported in another standard, H, also fastened to the top of the lid. On the outer end of the shaft G is a crank, I, by means of which the shaft is rotated, and on the shaft, between the two standards, is feathered a large friction-wheel, J, which is pressed against the wheel D by means of a spiral spring, K, surrounding the shaft between the wheel J and the outer standard H. By turning the crank I the wheel J is rotated, and thereby revolves the wheel D and dashers. By this construction of the operating mechanism the housekeeper or dairyman is enabled to perform the process of churning with much less noise, as well as better protecting the cream from the dust and rust that collect in the spaces of toothed wheels, the smooth surfaces of the friction-gears being easily kept clean. The surfaces of the two wheels in contact with each other may be either straight or beveled, and may be faced with rubber, if desired. The friction may be increased or diminished at will by regulating the tension of the spring K, which is accomplished by moving the standard H out or in. This standard is for that purpose provided with slotted feet *a*, through which screws *b* are passed to fasten it to the lid A.

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

1. The combination, with the vertical dasher-shaft B, of the friction-wheel D secured thereon, the friction-wheel J, feathered on the horizontal shaft G, and the spring K, pressing the wheel J against the wheel D, substantially as and for the purposes herein set forth.

2. The standard H, provided with the slotted feet *a*, and adjustably secured to the lid A, in combination with the shaft G, spring K, and friction-gears J D, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

R. K. PARKHURST.

Witnesses:

S. D. DAILY,

S. PARKHURST.