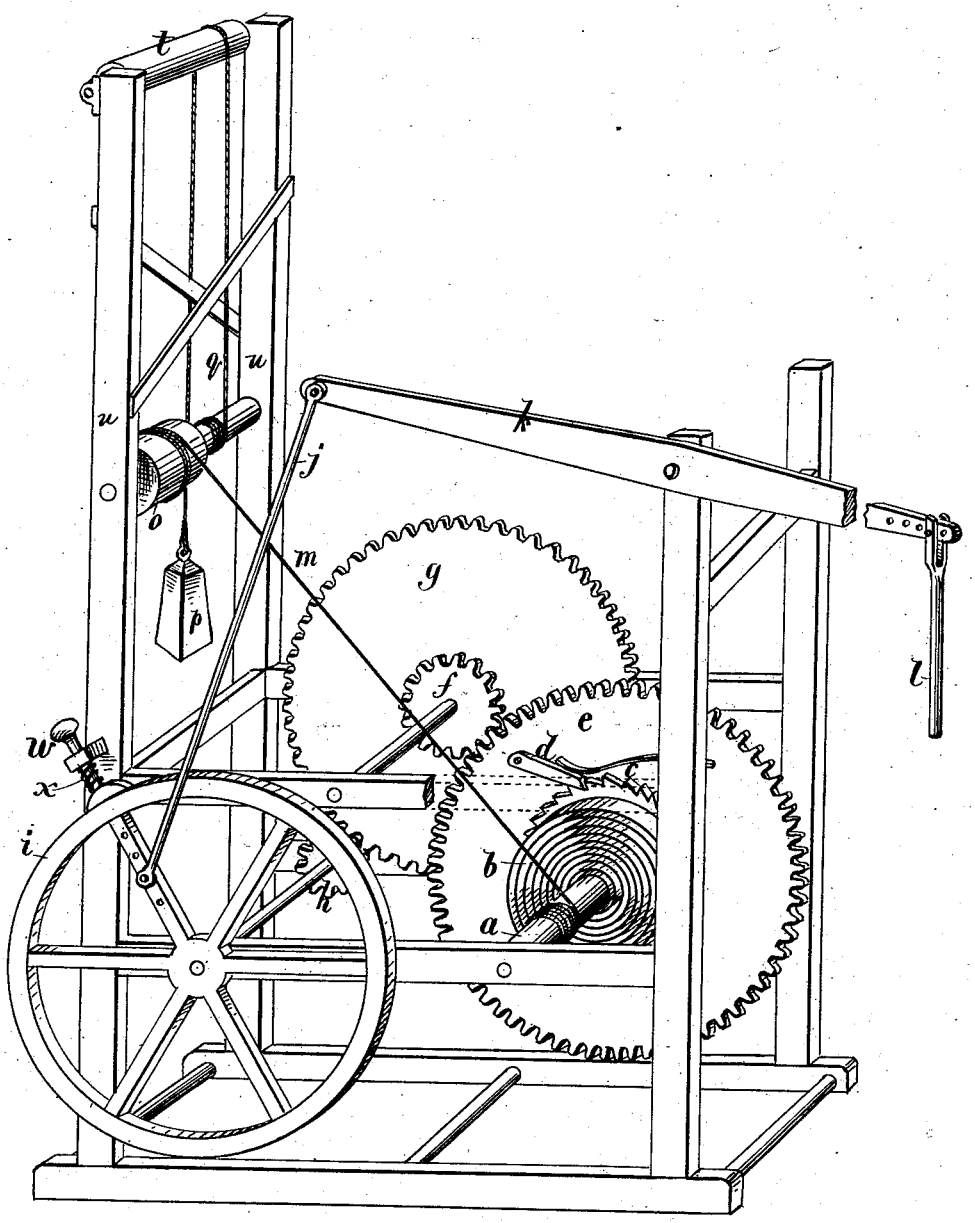
(No Model.)

J. WILBER.

CHURN POWER.

No. 264,589. Patented Sept. 19, 1882.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN WILBER, OF FALL BROOK, PENNSYLVANIA.

CHURN-POWER.

SPECIFICATION forming part of Letters Patent No. 264,589, dated September 19, 1882.

Application filed July 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN WILBER, of Fall Brook, in the county of Tioga and State of Pennsylvania, have invented a new and Improved Churn-Power, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of motive powers in which weights and springs are employed; and it consists in the peculiar construction and arrangement of the parts, as hereinafter more fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawing, forming part of this specification, which is a perspective view of my improved spring-power, in which *a* represents the first-motion shaft of a spring-power mechanism, of which *b* is the spring, *c* the ratchet-wheel, and *d* the pawl for holding the spring in tension. *e*, *f*, *g*, and *h* represent the multiplying train of speed-gears; *i*, the balance-wheel; *j*, connecting-rod, and *k* walking-beam to work the churn-dasher shaft *l*. The rod *j* is connected to one of the arms of the balance-wheel, so as to be shifted along said arm to alter the length of the strokes of the dasher, as may be required for different quantities of cream.

From shaft *a*, I have arranged a cord, *m*, to the weight-drum *o*, which is operated by the weight *p* and cord *q*, said cord passing from the axle of drum *o* up around an overhead roller, *t*, in order to increase the range of the weight, said roller being mounted on the uprights *u* of a portable frame, in which the machinery is arranged for convenience in shifting it about and setting it out of the way when not required for use.

w represents a brake to the balance-wheel, which is adjustable by the screw *x*, or it may be a spring, or a spring and a screw together to regulate the speed of the machine. By thus re-enforcing the power of the spring with the weight a machine of considerable capacity may be obtained, in which the power required to work the churn may be stored up with a few revolutions of the winding-up mechanism, so as to be accomplished in much less time and also with less fatigue to the operator than by working the churn directly.

I am aware that in churn-powers a combination of weights, wheels, pulleys, springs, and regulators has heretofore been employed, and I therefore lay no claim, broadly, to such combination, my invention being confined to the construction and arrangement of parts claimed.

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

The combination, with the shaft *a*, spring *b*, ratchet-wheel *c*, pawl *d*, gear-wheels *e f g h*, balance-wheel *i*, walking-beam *k*, adjustable connecting-rod *j*, and churn-dasher *l*, of the uprights *u*, drum *o*, roller *t*, cord *m*, passing around the shaft *a*, and drum *o*, cord *q*, and weights *p*, all constructed, arranged, and operated substantially as described.

JOHN WILBER.

Witnesses:
R. B. WEBB,
GEO. C. BOWEN.