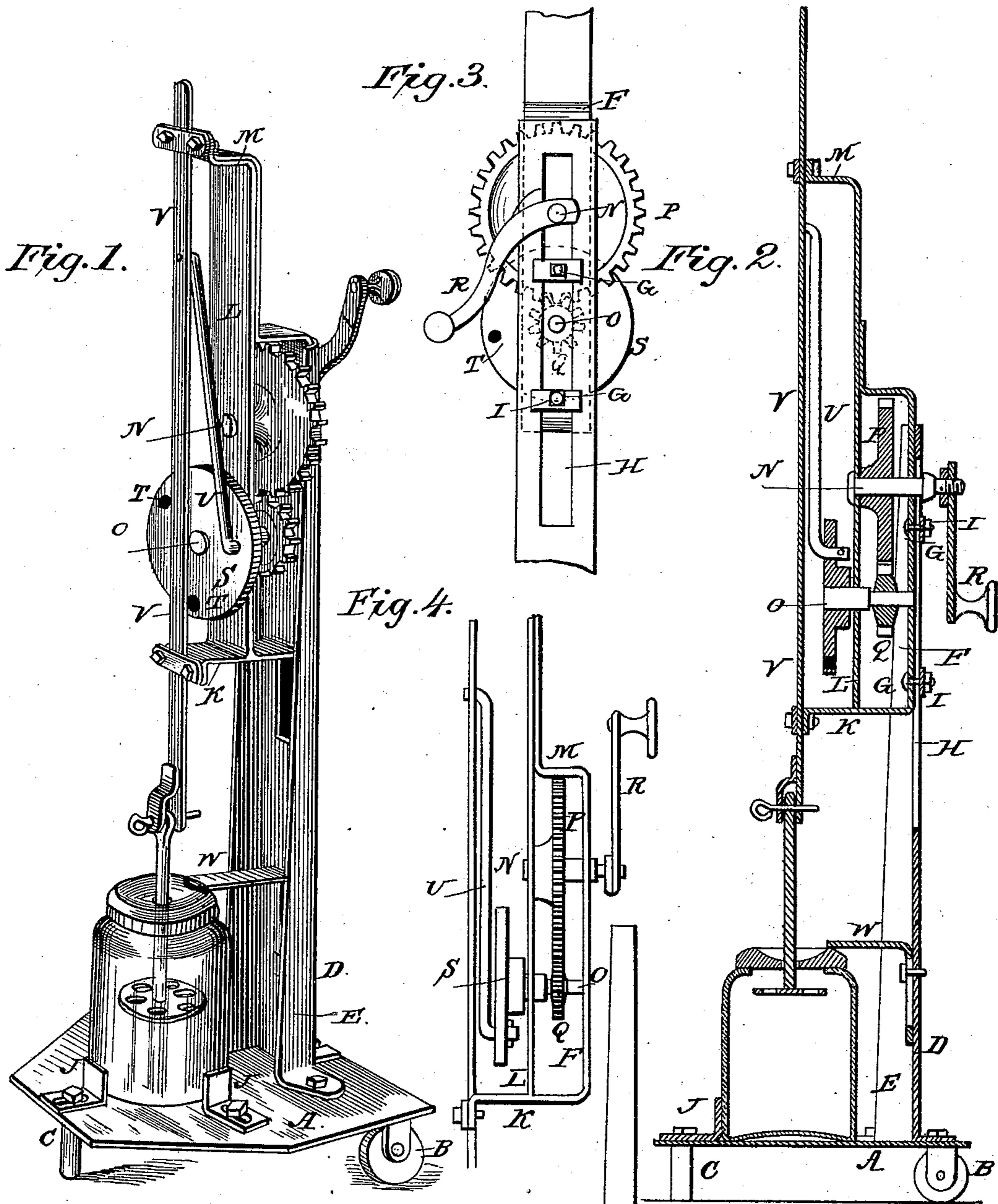


(No Model.)

R. T. HENDERSON.
CHURN.

No. 291,901.

Patented Jan. 15, 1884.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT T. HENDERSON, OF SHAWNEETOWN, MISSOURI.

CHURN.

SPECIFICATION forming part of Letters Patent No. 291,901, dated January 15, 1884.

Application filed May 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT T. HENDERSON, a citizen of the United States, residing at Shawneetown, in the county of Cape Girardeau and State of Missouri, have invented a new and useful Churn, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to motors for operating light machinery; and it consists in certain improvements in the construction of the same, having for their object to provide for the perfect adjustment of the operating parts, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view, showing my invention applied to operating an ordinary churn. Fig. 2 is a vertical sectional view. Fig. 3 is a rear view; and Fig. 4 is a side view, showing the operating mechanism detached from the upright or frame.

The same letters refer to the same parts in all the figures.

A in the drawings designates the base, which is mounted upon casters B B at its rear corners, and a foot, C, at its front end, so that it may be readily moved from place to place. The base A is provided near its rear edge with an upright, D, the edges of which have forwardly-projecting flanges E E, between which the frame of the operating mechanism is adjusted, as will be presently more fully described. The base is provided, in front of the upright D, with horizontally-adjustable clamps J, which are applied, when the machine is used for operating a churn, to secure the churn-body against lateral displacement.

F is a frame fitted against the front side of the upright D between the flanges E E, and arranged to be adjustable vertically by bolts G, extending from said frame through a slot, H, in the upright, and provided with clamping-nuts I, by means of which the frame may be retained securely at any position to which it may be adjusted. The said frame F is provided at its lower end with a forwardly-projecting bracket, K, and at its front side with an upwardly-extending arm, L, having a forwardly-projecting bracket, M. The front

sides of the brackets K and M have bearings for a vertically-sliding rod, V. The frame F is provided with bearings for a pair of transverse shafts, N and O, the upper one of which, N, is provided with a spur-wheel, P, meshing with a pinion, Q, upon the lower shaft, O, to which a rotary motion may thus be imparted, the upper shaft being provided with an operating-crank, R. The shaft O extends in front of the frame, and is provided with a wheel or disk, S, having a series of openings, T, at unequal distances from its center, in any one of which may be adjusted the lower end of the pitman U, the upper end of which is connected pivotally with the slide V, to which motion may thus be imparted. The stroke of the said slide V may be regulated by adjusting the pitman U in one of the perforations nearer to or farther from the center of the wheel or disk S, as may be required. The lower end of the slide V is to be connected with the dasher-staff of the churn to be operated; or it may be connected in any suitable manner with any light machinery that is to be driven by my improved motor.

W is a clamp vertically adjustable upon the front side of the upright D, for the purpose of bearing upon and securing against vertical displacement the churn which is to be operated.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. It is simple in construction, durable, convenient, and easily manipulated. The frame carrying the operating mechanism may be readily adjusted to suit any height of machinery to be driven.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. The combination of the base having the flanged vertically-slotted upright, the vertically-adjustable frame having forwardly-projecting brackets, a vertically-sliding rod mounted in the said brackets, a shaft mounted transversely in the vertically-adjustable frame, extending through the slot in the upright, and having at its front end a wheel or disk, a pitman connecting the latter with the vertically-sliding rod, and mechanism for op-

erating the said shaft, substantially as set forth.

2. The combination of the base mounted upon rollers or casters, and having horizontally-adjustable clamps, the flanged vertically-slotted upright, the vertically-adjustable frame carrying the operating mechanism, constructed substantially as described, and a clamp vertically adjustable upon the front

side of the upright, to hold the churn from vertical displacement, substantially as set forth. 10

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

ROBERT T. HENDERSON.

Witnesses:

ANTON F. MEISTER,
J. C. LITZELFELNER.