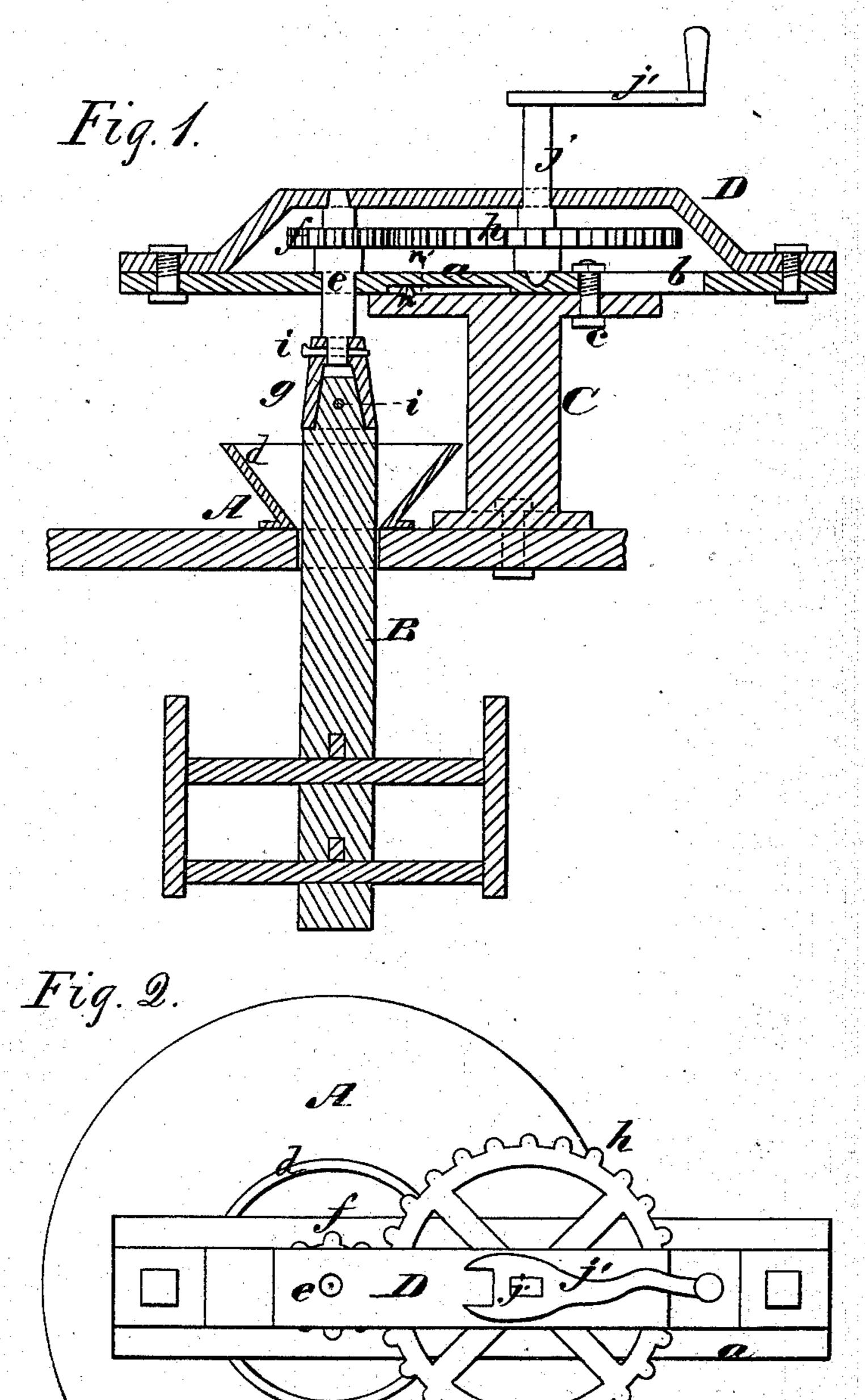
## G. W. RENNOLDS. Churn-Powers.

No. 146,474.

Patented Jan. 13, 1874.



Mary S. Wiley.

George E. Collecus,

By

INVENTOR
George W. Rennolds
Chipman former + Co
Attorneys.

## UNITED STATES PATENT OFFICE

GEORGE W. RENNOLDS, OF WALDRON, MISSOURI.

## IMPROVEMENT IN CHURN-POWERS.

Specification forming part of Letters Patent No. 146,474, dated January 13, 1874; application filed October 25, 1873.

To all whom it may concern:

Be it known that I, George W. Rennolds, of Waldron, in the county of Platte and State of Missouri, have invented a new and valuable Improvement in Churn-Powers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my churn-power. Fig.

2 is a plan view of the same.

The object of my invention is to obtain a churn-power which can be adjusted upon or removed from a supporting-standard secured permanently to a churn-cover, for the purpose of allowing the said power to be easily detached from a standard on a small churn-cover and properly adjusted on a corresponding standard fixed to a larger cover, thereby utilizing a single power for any number and kind of churns. The nature of my invention consists in the combination of a T-shaped standard, permanently secured to a churn-cover, with a horizontally-adjustable frame carrying a large spurred driving-wheel on a pinion, on the shaft of which is a removable socket for receiving the upper end of a dash-rod, as will be hereinafter explained.

The following is a description of my im-

provement:

In the annexed drawings, A represents a churn-cover, through the center of which is a hole surrounded by a funnel, d, through which a vertical dasher-rod, B, passes freely. C designates a standard, which is shaped like the capital letter T, and which is permanently secured to the top of the cover at any point thereon. D represents a horizontal frame, composed of two plates arranged in planes parallel to each other, and securely united at their ends by bolts and nuts. The frame D is secured rigidly, but adjustably, upon the T-shaped standard C by means of a bolt and nut, c, which bolt passes through an oblong slot, b, through the bottom plate a of this

frame, as shown in Fig. 1. Lateral displacement of the frame D is prevented by means of a tenon, n, on the standard C, fitting into an oblong groove, n', in the bottom of the plate a. The frame D affords bearings for the shafts j e of two spur-wheels, h f. The shaft j of wheel h is stepped into the plate a, and has a crank-handle, j', applied on its upper end. The shaft e of the pinion f is shouldered and supported by the plate a, and receives on its lower end a cap-socket, g. This socket receives the upper end of the dash-rod B. Two pins or keys, i i, connect the socket to the shaft e, and also the rod B to the socket, and allow them to be detached from each other.

It will be seen that, by loosening the nut on bolt c, the frame D, with its wheels and shafts, can be adjusted longitudinally, and that, by removing the said nut, frame D can be detached from the standard C. A very nice adjustment can thus be made. It is important to set the shaft B exactly perpendicular to the cover A, and to maintain this shaft in such position. It is also important to have the frame D adjustable, as set forth, for the purpose of using it on standards applied to different churn-covers where the standards are fixed at different distances from the holes through such covers.

By my improvement the standards C can be secured at the most desirable points on covers, and compensation can be made for the shrinking and swelling thereof.

What I claim as new, and desire to secure

by Letters Patent, is—

The frame D, carrying spur-wheels h f, crank j', and sash-rod socket g, and adjustably secured by a slot and a bolt to a T-shaped standard, which is permanently secured to a churn-cover, as herein described and shown.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE W. RENNOLDS.

Witnesses: GEO. W. NOLAND,

JOHN FLEMING.