

(No Model.)

J. A. & W. D. GABBERT.
CHURN.

No. 420,231.

Patented Jan. 28, 1890.

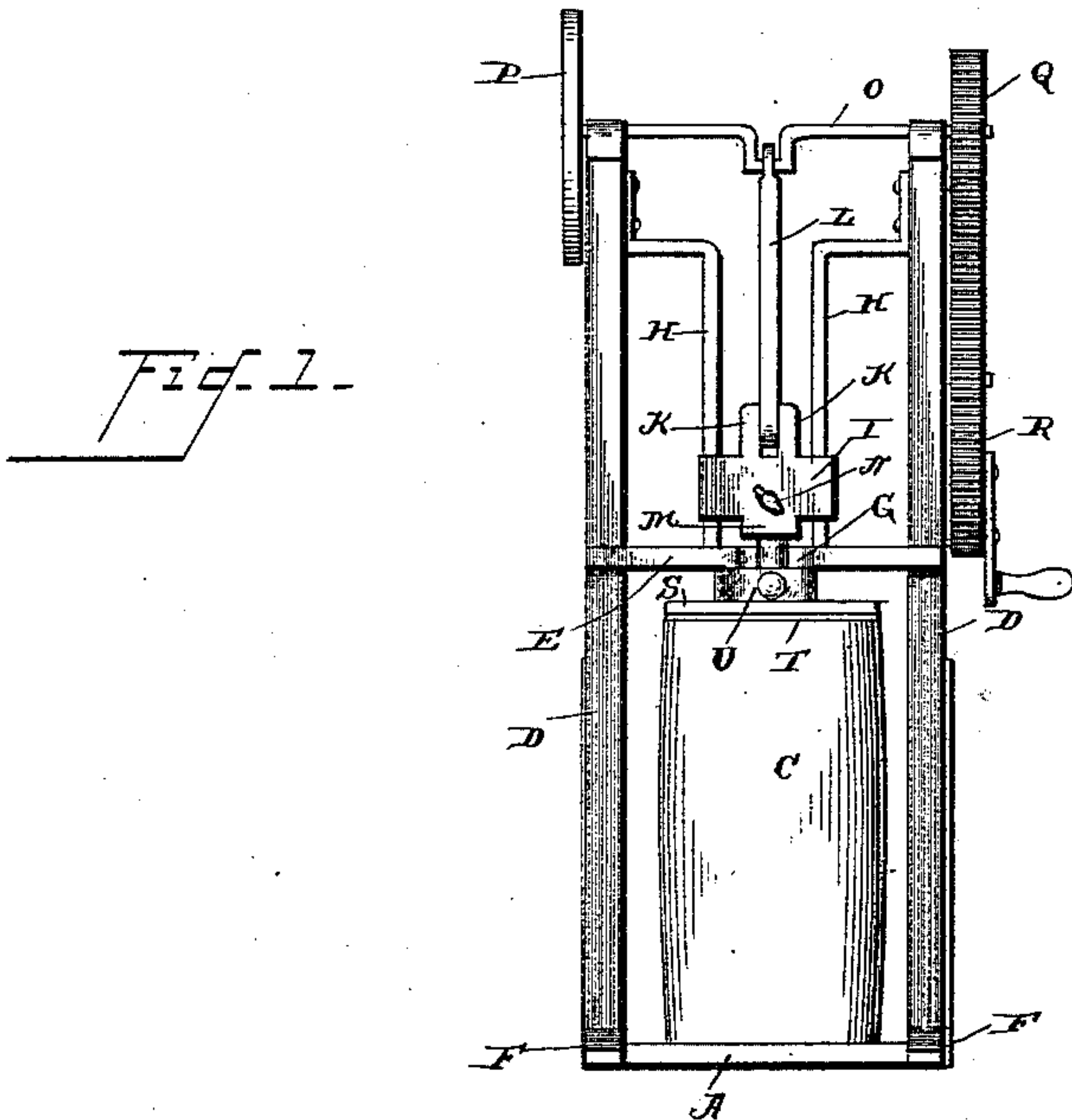


Fig. 3.

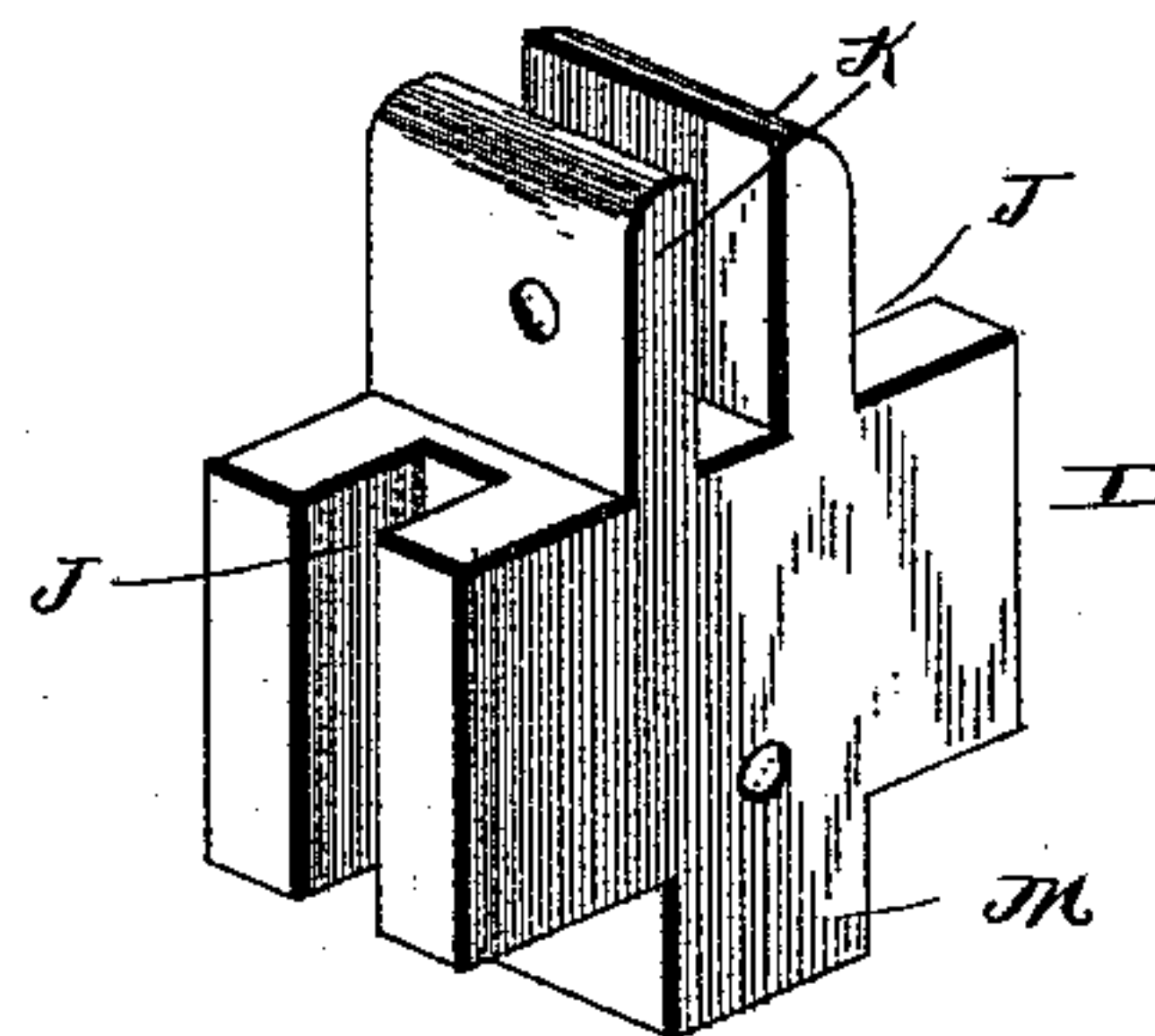
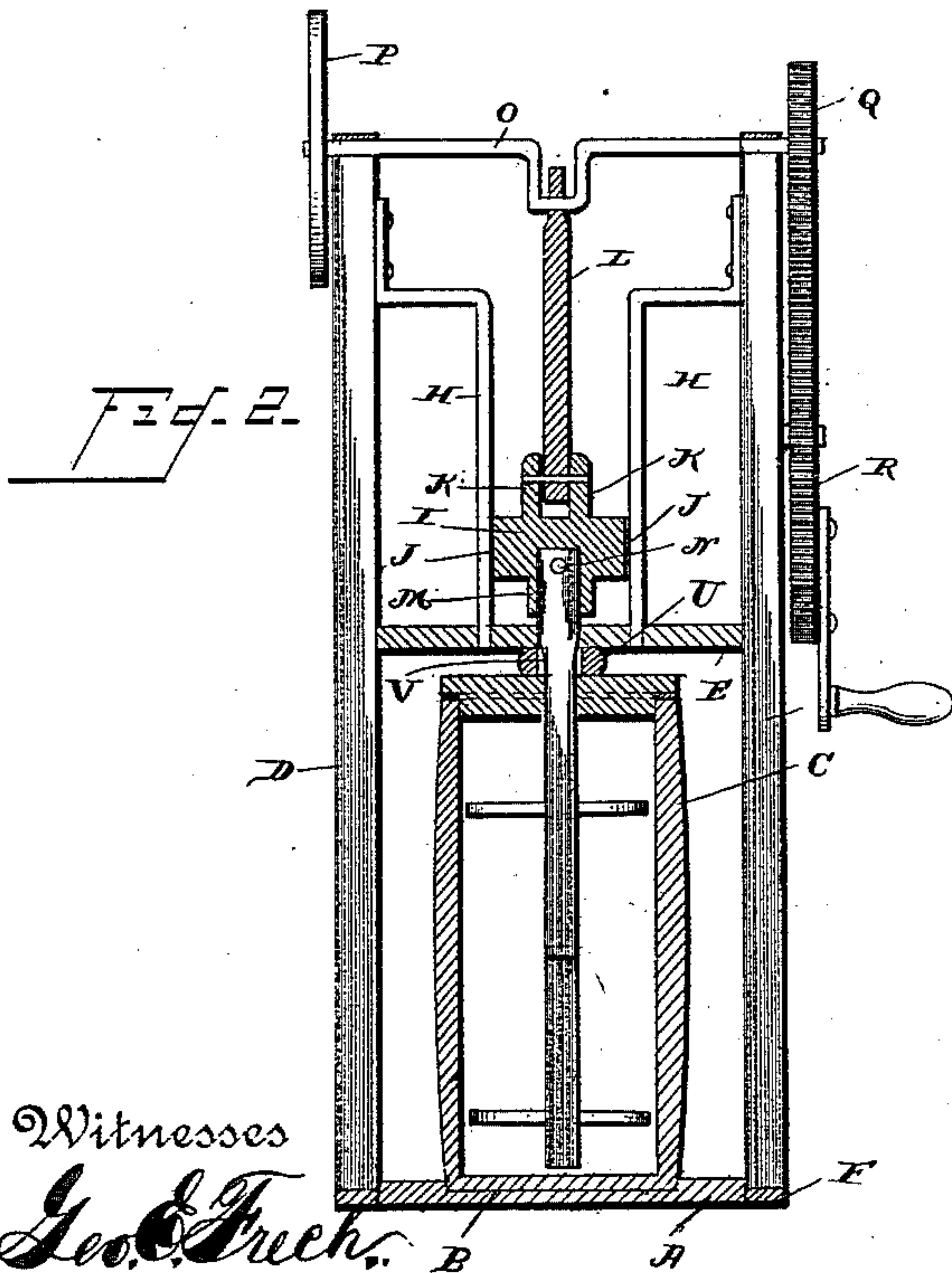
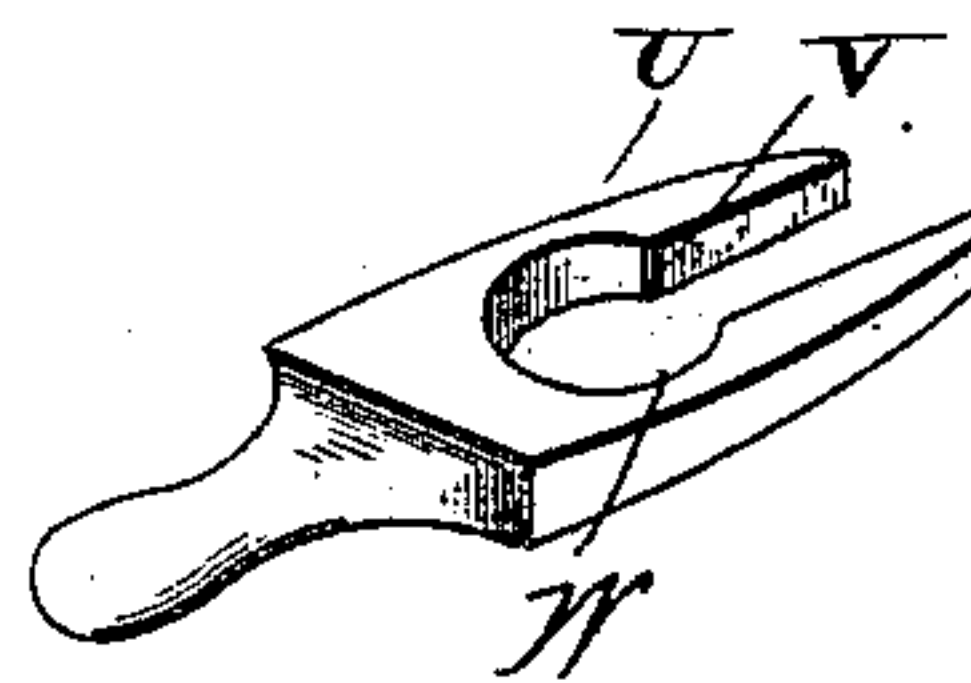


Fig. 4.



Witnesses

Geo. E. Fitch.

R. W. Bishop.

Inventors
Joseph A. Gabbert
William D. Gabbert.

By their Attorneys

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOSEPH ARTHUR GABBERT AND WILLIAM DAVID GABBERT, OF ST. ALBANS,
WEST VIRGINIA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 420,231, dated January 28, 1890.

Application filed October 23, 1889. Serial No. 327,931. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH ARTHUR GABBERT and WILLIAM DAVID GABBERT, citizens of the United States, residing at St. Albans, in the county of Kanawha and State of West Virginia, have invented a new and useful Churn, of which the following is a specification.

Our invention relates to improvements in churns; and it consists in certain novel features of construction hereinafter described and claimed.

In the annexed drawings, Figure 1 is an elevation of our improved churn. Fig. 2 is a vertical section. Fig. 3 is a detail perspective view of the sliding cross-head, and Fig. 4 is a detail view of the wedge for securing the lid of the churn in position.

In carrying out our invention we employ a frame consisting of the base-plate A, having a circular recess B in its upper side, in which the churn-body C is seated and the standards D and plate E secured to the standards. The standards rise from the sills F, to which the base-plate is secured, and the plate E is secured to the standards and extends between the same at a proper point above the base-plate to admit the churn-body, as shown in the drawings. This plate E is provided in its front edge with a notch G, which receives the dasher-staff, and on the upper side of the plate E we erect the guide-bars H, the upper ends of which are bent outward and secured to the standards D, as clearly shown. A sliding cross-head I is mounted on these guide-rods, and consists of a casting having the vertical grooves J in its ends, which engage the vertical portions of the guide-bars, the lugs K on its upper side between which the lower end of the pitman L is pivoted, and the socket M in its lower side, which receives the upper end of the dasher-staff, the said staff being removably secured in the socket by a pin N, as clearly shown.

A crank-shaft O is journaled on the upper ends of the standards, and is provided at its opposite ends with a fly-wheel P and a pinion Q, as clearly shown, the upper end of the

pitman being pivoted to the crank-arm, so that when the said shaft is rotated the cross-head and the dasher-staff will be reciprocated. The driving-wheel R is mounted on a stub-shaft below the pinion Q, and meshes therewith, so that when the driving-wheel is rotated its motion will be imparted directly to the pinion and the crank-shaft.

The churn-body C is placed on the base-plate A, and the dasher-staff then secured to the cross-head, and the lid S placed in position over the upper end of the churn-body. The said lid is provided with an elastic packing-ring T, which fits on the upper end of the churn-body and forms a tight joint between the same and the lid, so as to prevent the escape of the milk or cream therefrom. After the lid has been placed in position a wedge U, having a recess or notch V in its end, terminating in a semi-cylindrical opening W, is inserted between the lid and the plate E, so as to bind between the same and thereby secure the lid in place, the notch receiving the dasher-staff, and, in conjunction with the recess G, forming a separable bearing in which the dasher-staff may reciprocate. By this peculiarly-shaped wedge it is apparent that the shaft may readily be removed from the bearing or locked within the same and the churn-body and its cover locked in position.

In practice the cream is placed in the churn-body and the driving-wheel rotated, as will be readily understood, to reciprocate the dasher. The cream will thus be violently agitated and the butter quickly produced.

From the foregoing description it will be seen that we have provided a churn which is simple in its construction, which is composed of very few parts, and which can be easily operated.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

In a churn, the combination of the cross-plate E and its opposite supports, having a notch G in its central edge and forming the stationary half of a bearing, the dasher-staff passing through the notch G, the churn-body

below the plate E, and the wedge inserted
between the plate E and the lid of the churn,
and provided with a notch corresponding to
the notch G and forming the movable half
5 of a bearing to receive the dasher-staff, where-
by the wedge serves to hold both the churn-
lid and the dasher-staff in place, as set forth.

In testimony that we claim the foregoing

as our own we have hereto affixed our signa-
tures in presence of two witnesses.

JOSEPH ARTHUR GABBERT.
WILLIAM DAVID GABBERT.

Witnesses:

CORYDON MCCALLISTER,
GILES M. WRIGHT.