

J. H. SHEFFER.
RECIPROCATING CHURN.

No. 187,054.

Patented Feb. 6, 1877.

Fig. 1.

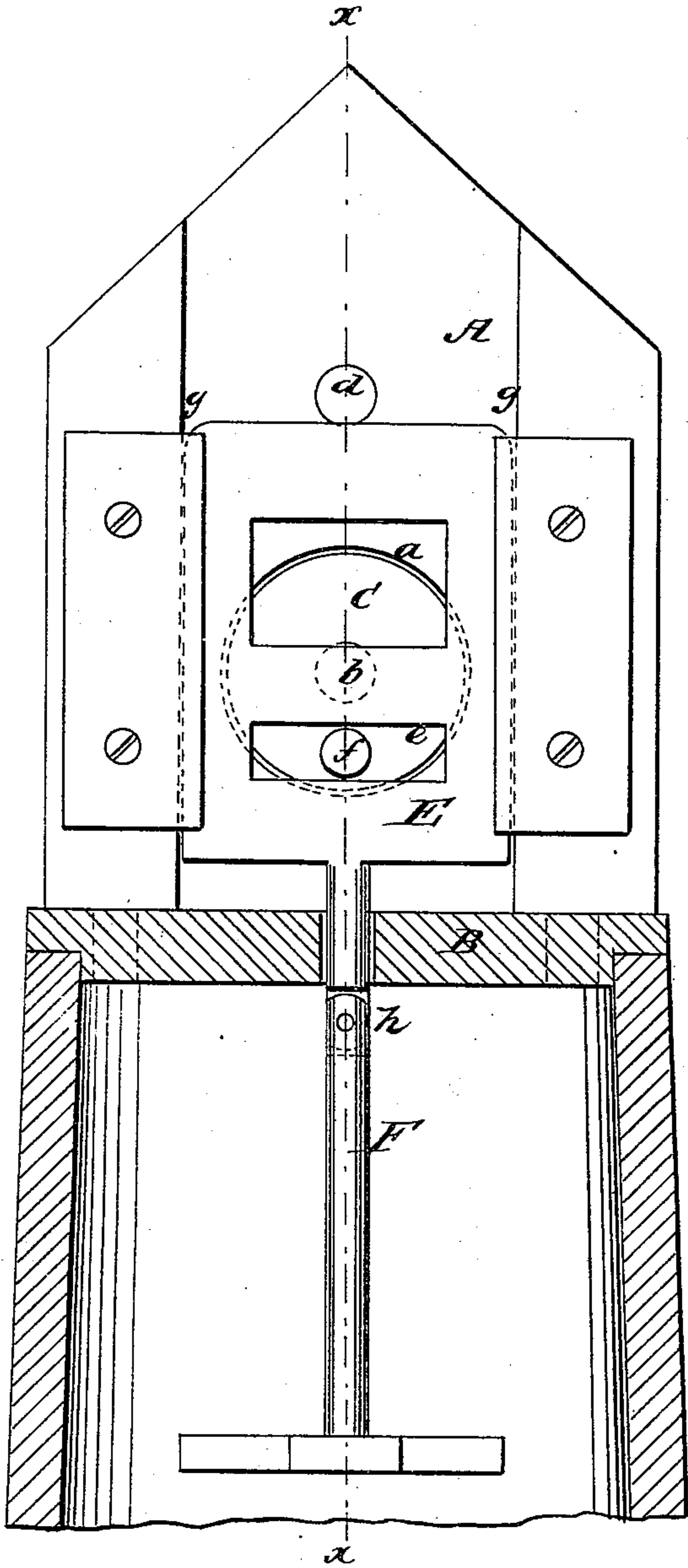
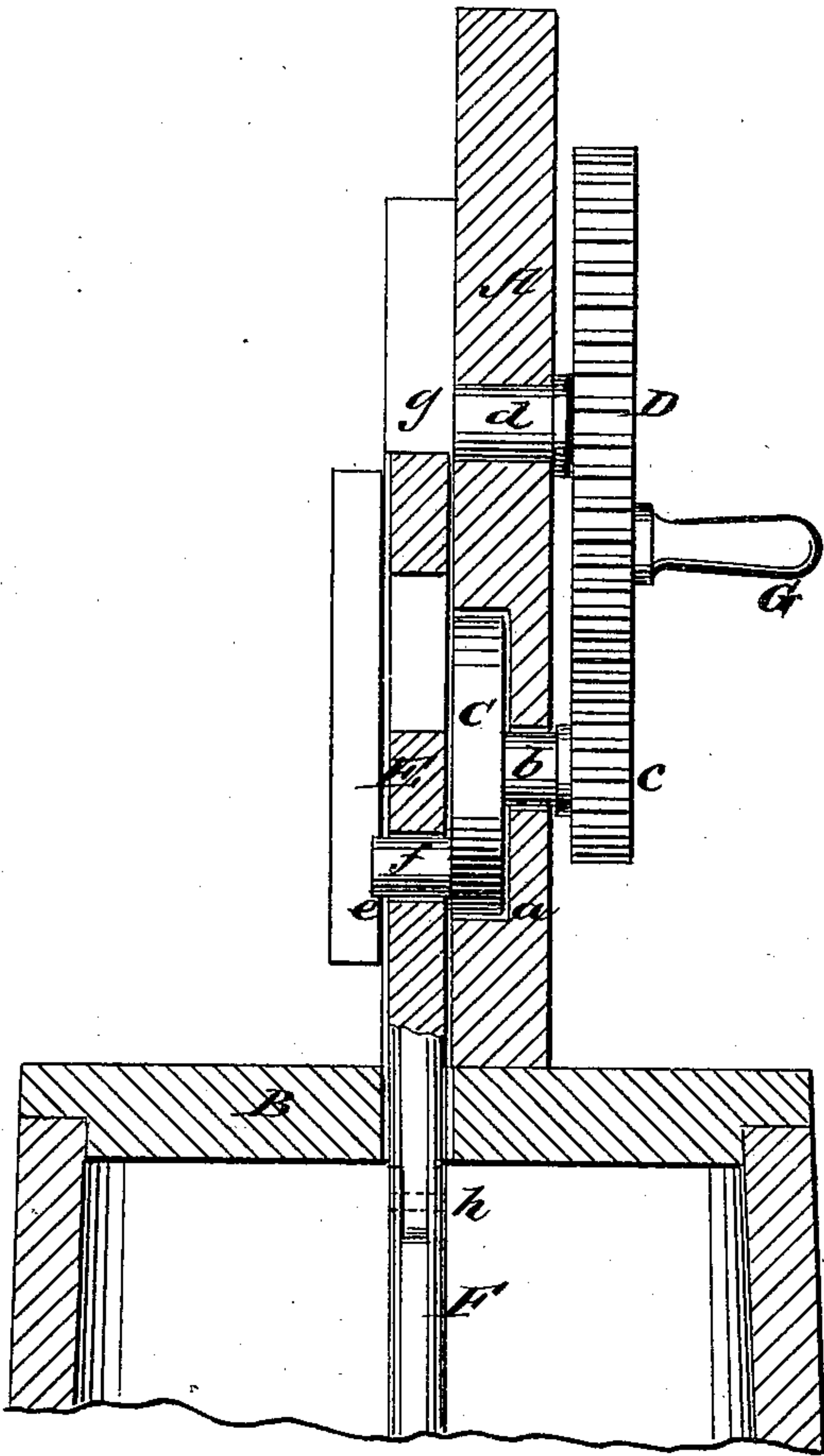


Fig. 2.



WITNESSES:

E. Wolff.
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UNITED STATES PATENT OFFICE.

JOHN HENRY SHEFFER, OF CAIRO, KENTUCKY.

IMPROVEMENT IN RECIPROCATING CHURNS.

Specification forming part of Letters Patent No. **187,054**, dated February 6, 1877; application filed November 25, 1876.

To all whom it may concern:

Be it known that I, JOHN H. SHEFFER, of Cairo, in the county of Henderson and State of Kentucky, have invented a new and Improved Power Attachment for Churns, of which the following is a specification:

Figure 1 is a front elevation of my improved attachment. Fig. 2 is a central vertical section on line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to gearing for converting the rotary motion of a hand-crank into the reciprocating motion required for driving the dasher; and it consists in a crank-disk that is attached to a shaft that is journaled in a standard attached to the churn-cover, and driven by spur-gearing turned by hand-power, and in a slotted cross-head that is driven by the crank, and has its ways in the standard, and is connected with a jointed dasher-rod.

The object of the invention is to provide mechanism for driving the dasher of a common churn, which will facilitate the laborious operation of churning.

In the drawing, A is a vertical standard attached to the cover B, and provided with a circular recess, *a*, for receiving the crank-disk C, which is attached to the shaft *b*. The shaft *b* is journaled in the standard A, and is provided with a pinion, *c*, which is driven by

a spur-wheel, D, that turns upon the stud *d* fixed in the standard A. E is a cross-head sliding in ways *g* in the standard A, and slotted at *e* to receive the crank-pin *f*, that projects from the face of the disk C. F is a dasher-rod that is attached centrally to the lower side of the cross-head, and projects through the central opening of the churn-cover. The dasher-rod is made in two parts that are united by a joint below the churn-cover at *h* to admit of raising and tipping the churn-cover. The wheel D is provided with a crank pin or handle, G, for operating the gearing.

The advantages claimed for my invention are that it is simple and inexpensive, and may be applied to any dasher-churn, and it greatly facilitates the operation of churning.

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

The combination of the churn-cover, having perforated and recessed standard A, the sliding cross-head E jointed to dasher, and the crank-disk C, all constructed and arranged in connection with spur-pinion and hand-wheel, substantially as and for the purpose specified.

JOHN HENRY SHEFFER.

Witnesses:

J. H. BROMLEY,
I. O. FISHER.