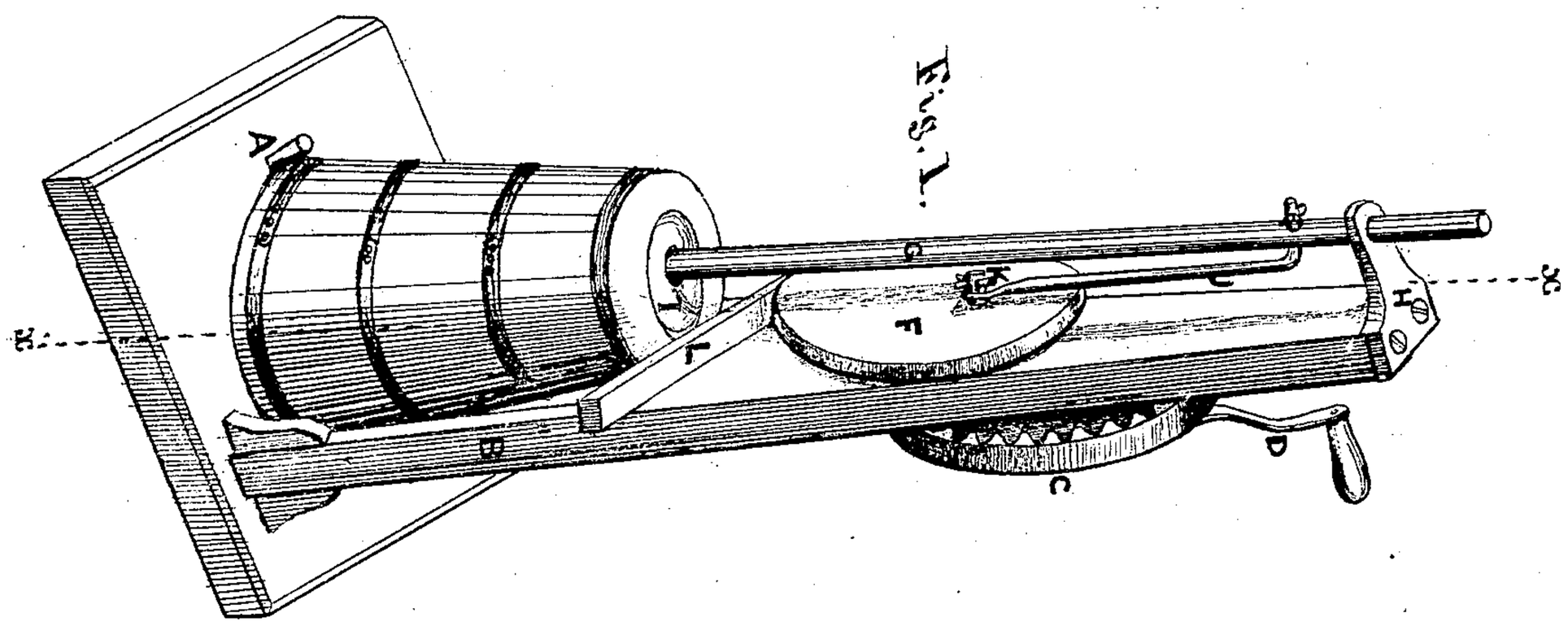
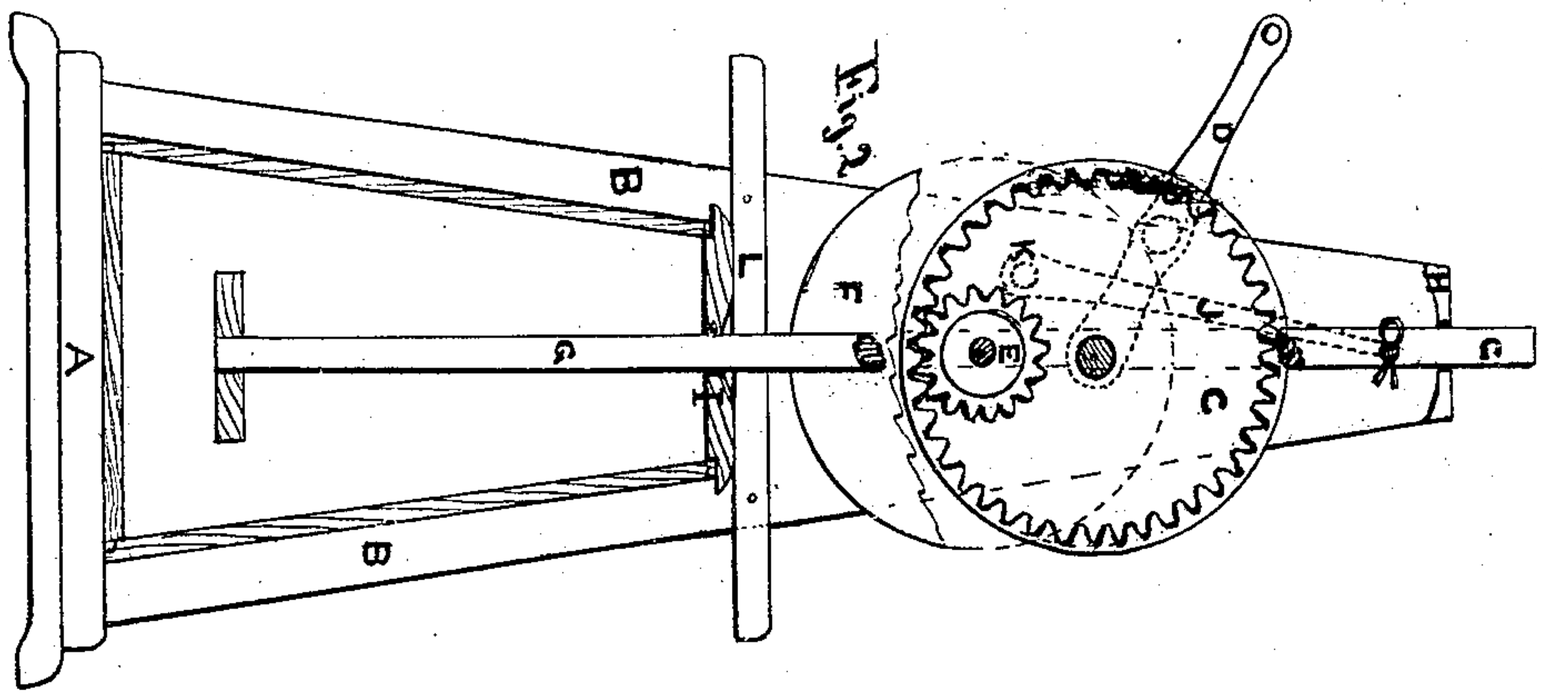
S. VAN METER.

CHURN.

No. 104,800. Patented June 28, 1870.




Witnesses

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# United States Patent Office.

STROUD VAN METER, OF HENDERSON, ILLINOIS.

*Letters Patent No.* 104,800, *dated June* 28, 1870.

## IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

I, STROUD VAN METER, of Henderson, in the county of Knox and State of Illinois, have invented certain Improvements in Churns, of which the following is a specification.

*Nature and Objects of the Invention.*

The nature and object of my invention relates to improvements in that class of upright churns, the dashers of which are operated by means of crank, gear-wheels, and pitman, connected with the dasher-handle, and consists in simplifying the operation and economizing in the construction of such churns, by making the upright or frame by which the operating mechanism is supported so that it shall also securely hold the churn in proper position during the operation of churning, without the aid of any additional device especially designed for that purpose. The necessity for such hold-fast devices is obviated by my improvement, as is also the necessity for having projecting adjustable standards for connecting the operating mechanism with the dasher-handle.

*Description of the Accompanying Drawing.*

Figure 1 is a perspective view.

Figure 2 is a vertical sectional view on the plane of the line *x x*, fig. 1.

*General Description.*

A is the base of the frame.

B B are uprights, approaching each other toward their upper ends, and supporting the main parts of the devices.

C is the drive-wheel, and

D the crank for operating the same, the drive-wheel having an internal gear.

E is a pinion, gearing with the drive-wheel C.

F is a fly-wheel, carried on the same shaft as the pinion E.

G is the dasher-handle, of the ordinary reciprocating kind, and is supported in the guide H and churn-lid I.

J is a rod, pivoted to the stud K, on the fly-wheel, and its upper end bent, and passed through the dasher-handle G.

L is a stationary guard or stay for the churn-lid I.

M is the churn.

The construction of my invention is of the simplest kind, and its operation is efficacious.

The churn being in the position shown in the drawing, on withdrawing the end of the rod J from the dasher-handle G, the said handle may be slipped downward until its upper end is released from the guide H; then, by removing the lid I from its position on the uprights B B, the churn may be taken away from the frame for any purpose desired. The churn may be again placed in position by a reverse operation to that described for removing it.

The vertical stroke of the dasher may be regulated and adjusted by having a series of holes in the handle to which the rod J is attached.

I do not claim as my invention the arrangement or combination of the mechanism by which the dasher is operated.

I claim—

The upright B and guard L, as constructed, in combination with churn M, lid I, guide H, dasher G, pinion E, wheels C and F, and crank D, the whole arranged to operate substantially as and for the purpose specified.

STROUD VAN METER.

Witnesses:

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