

J. GEHR.
Churn.

No. 225,007.

Patented Mar. 2, 1880.

Fig. 1.

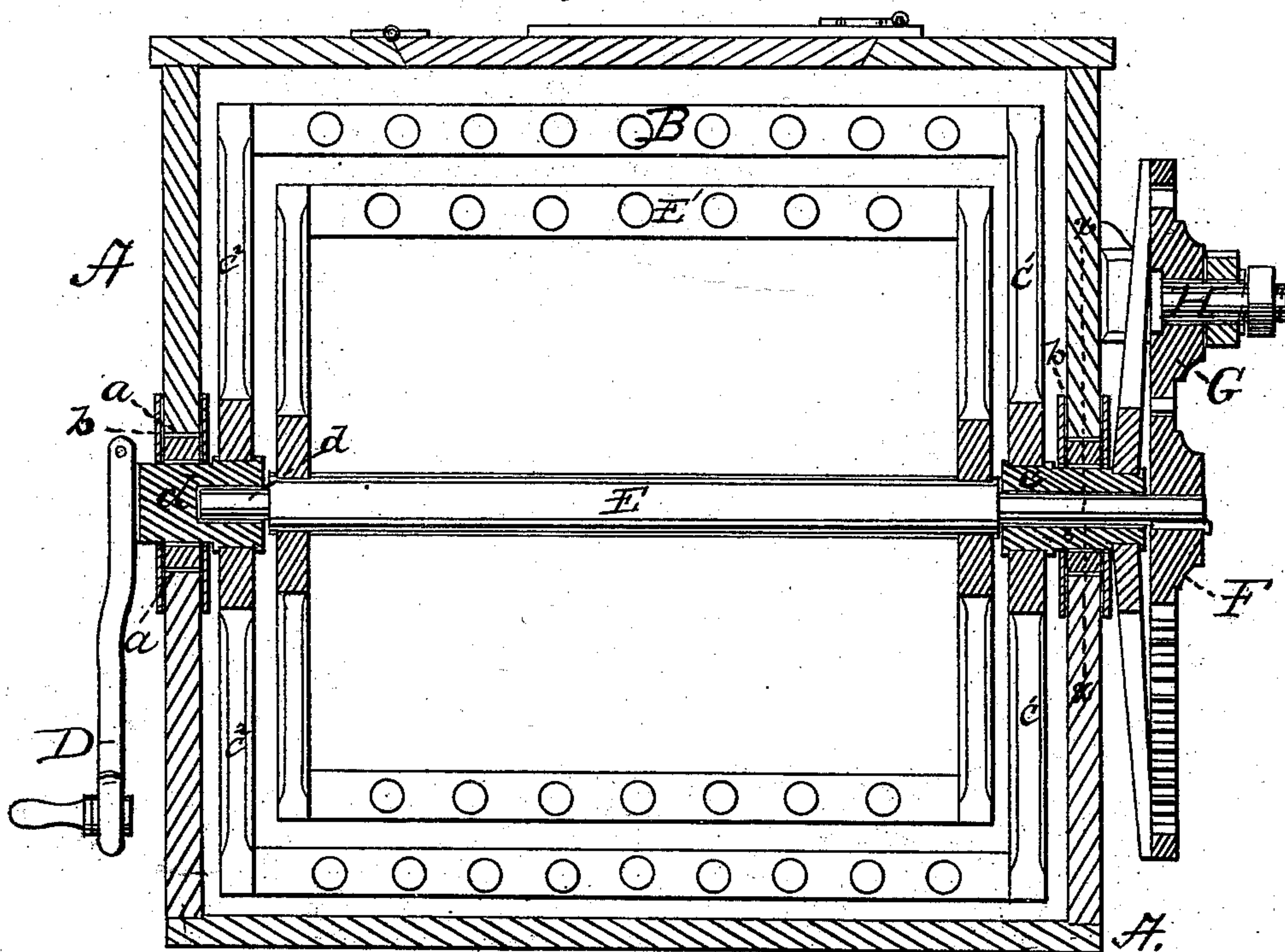
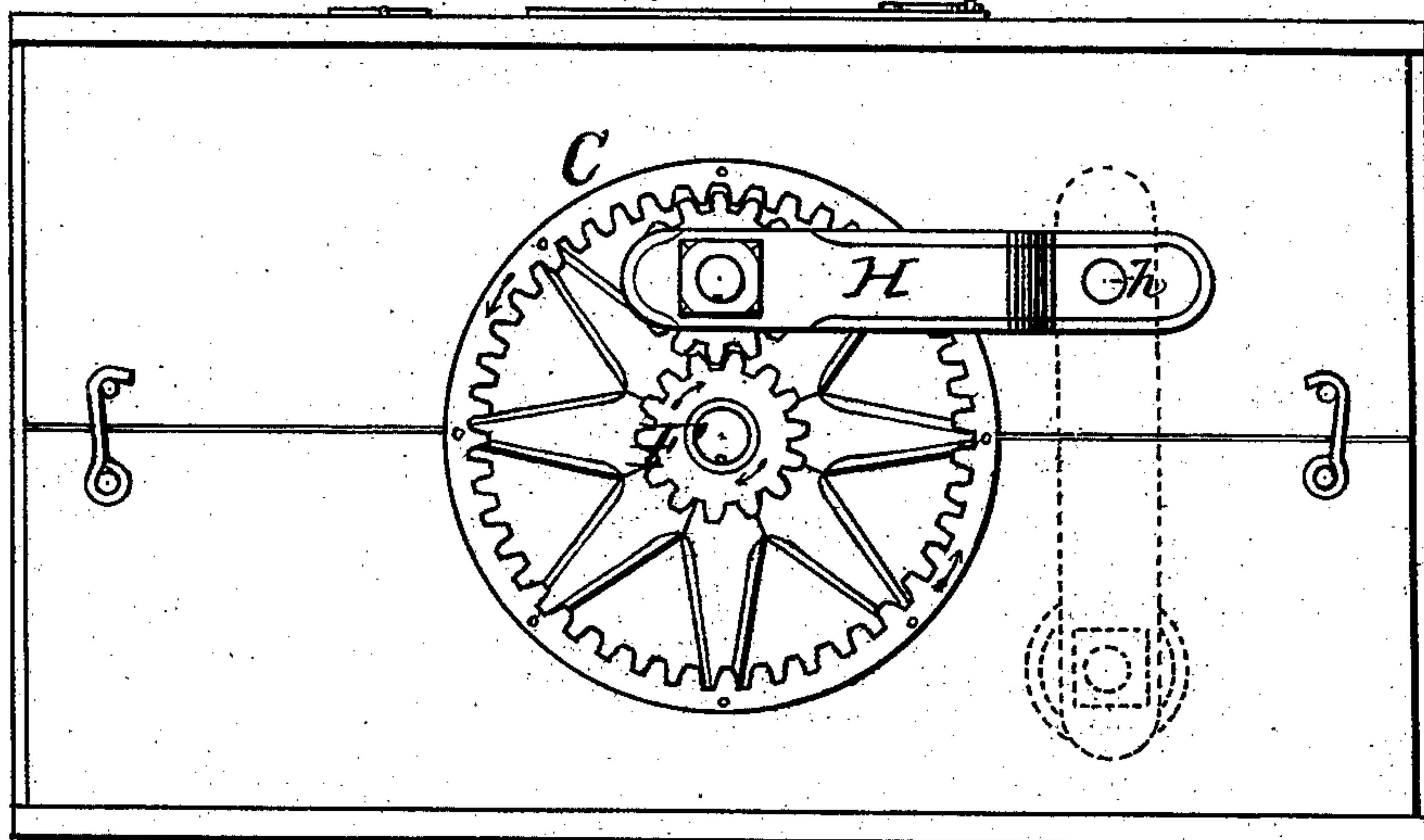


Fig. 2.



WITNESSES

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INVENTOR

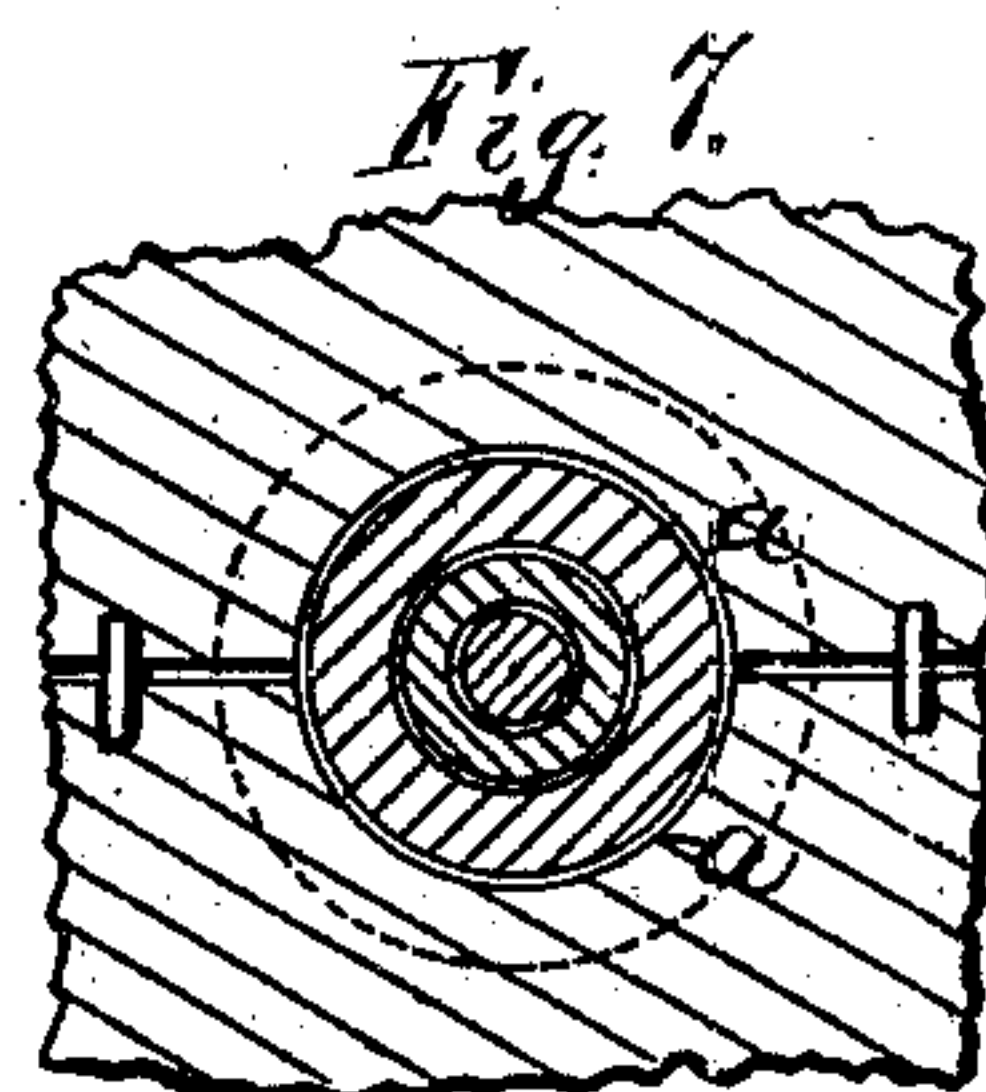
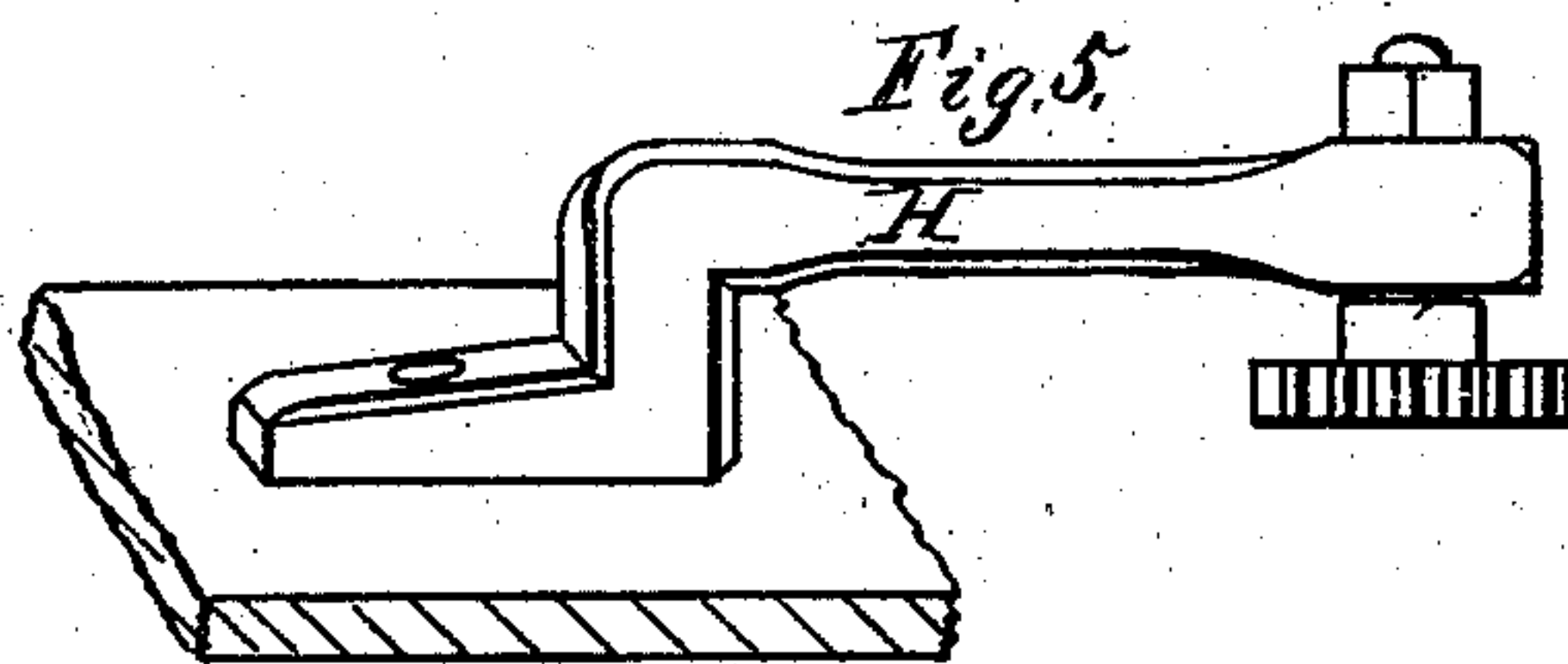
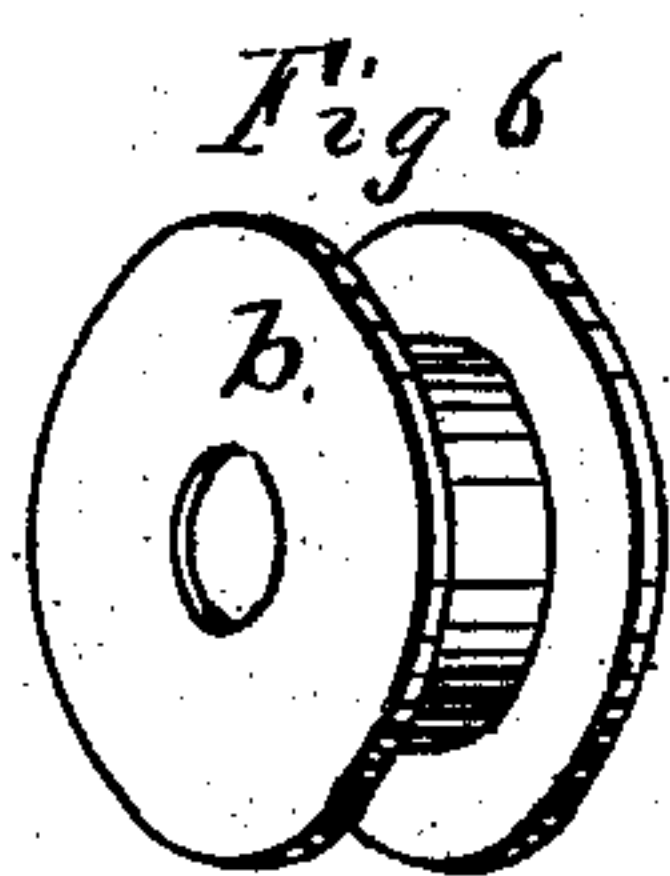
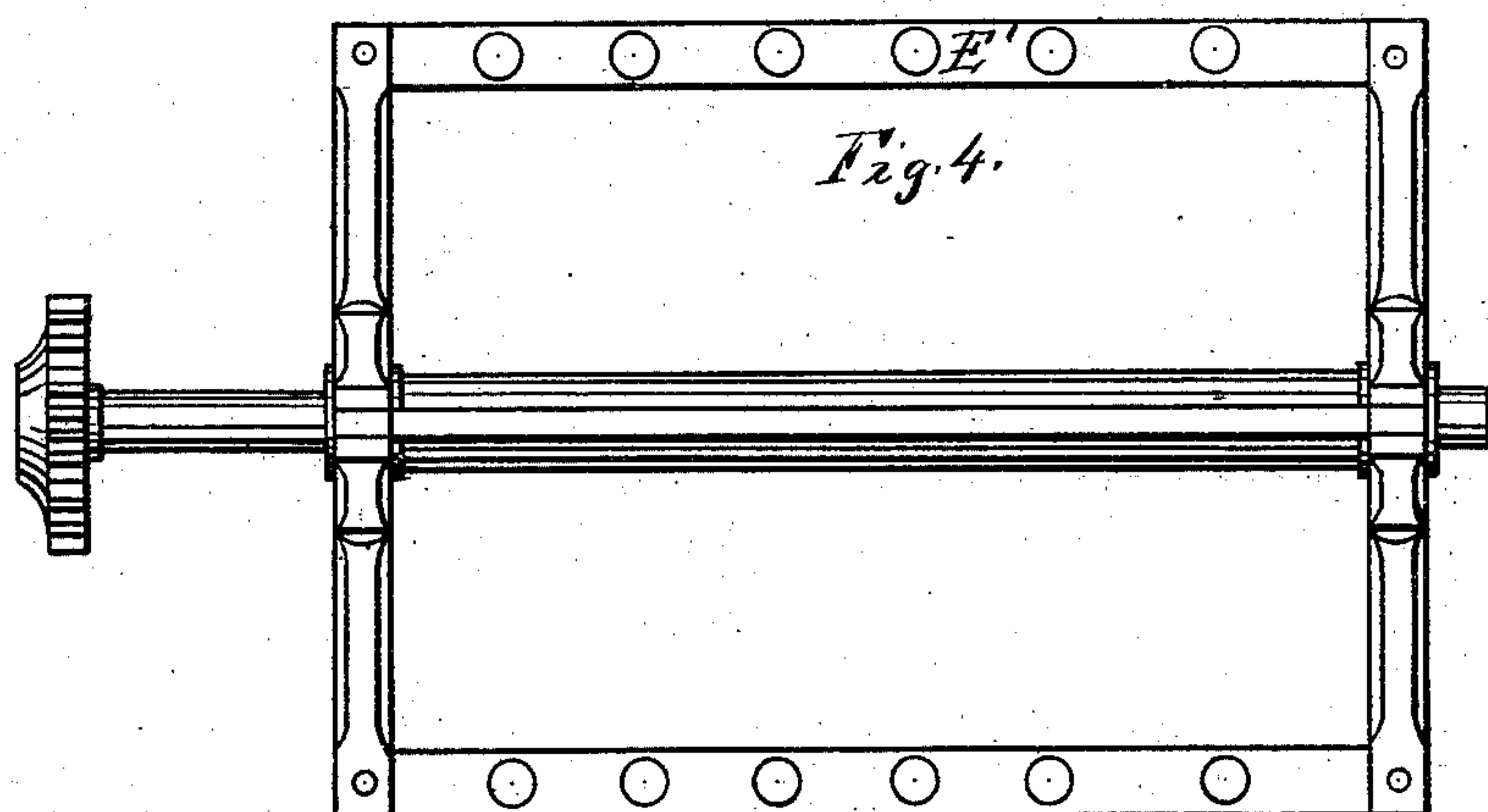
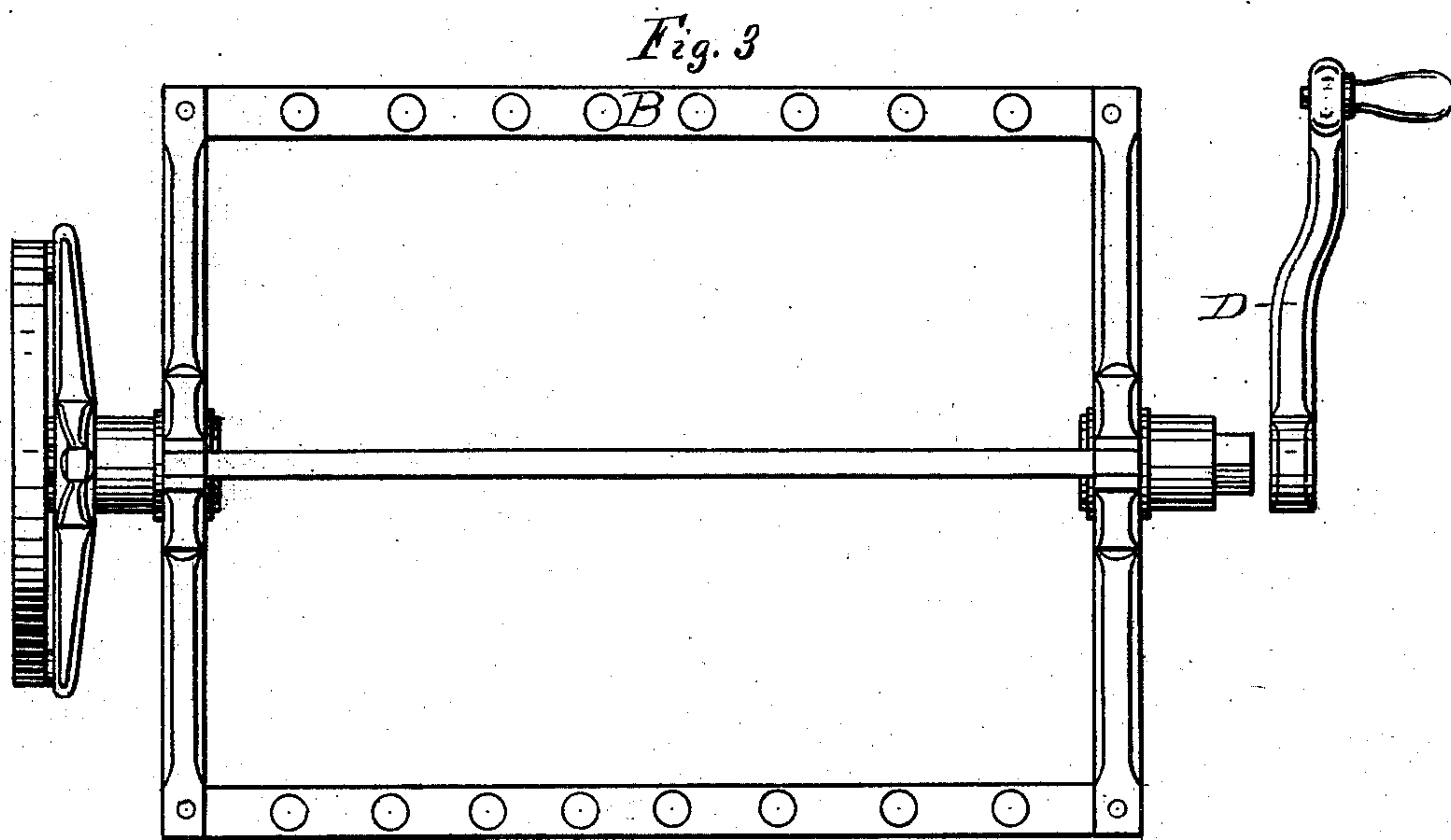
By

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E. H. Johnson & Co., ATTORNEYS.

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UNITED STATES PATENT OFFICE.

JOHN GEHR, OF CLEAR SPRING, ASSIGNOR TO PETER J. SOWERS AND ODIS
T. B. WOLFORD, OF WASHINGTON COUNTY, MD., ONE-THIRD TO EACH.

CHURN.

SPECIFICATION forming part of Letters Patent No. 225,007, dated March 2, 1880.

Application filed December 8, 1879.

To all whom it may concern:

Be it known that I, JOHN GEHR, of Clear Spring, in the county of Washington and State of Maryland, have invented a new and valuable Improvement in Churns; 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 vertical longitudinal section of my invention. Fig. 2 is a side view of the same. Figs. 3 and 4 are side views of the dashers. Figs. 5 and 6 are detail views, and Fig. 7 is a sectional view through the line *x x*.

This invention relates to certain new and useful improvements in churns; and it consists more particularly in the arrangement and construction of the operating mechanism, whereby the dashers are caused to rotate in opposite directions, as will be hereinafter more fully set forth, and pointed out in the claim.

On the annexed drawings, A A represent a churn-box of ordinary construction, the bottom of which may be curved. This box is divided horizontally, the upper and lower portions being provided with semicircular apertures *a a*, which are adapted to receive the flanged spools *b b*. These spools *b b* form bearings for the shafts of the larger dasher B.

C is an internally-toothed wheel, which is rigidly secured to a short hollow shaft, *c*. To this shaft the arms *c'* of the dasher B are attached, and the arms *c''*, on the opposite side, are attached to the shaft *d*. To this shaft is secured the operating-handle D.

The shaft *d* is recessed at *d'*, and forms a bearing for one end of the shaft E of smaller dasher E'. The other end of the shaft E passes through the shaft *c*, and has attached to its end a cog-wheel, F. This cog-wheel meshes

into a similar one, G, which imparts motion from the internally-toothed wheel C, as shown in Fig. 2 of the annexed drawings.

G is a cog-wheel, which is attached by a bolt and nut to the arm H, which is provided with an elbow. This arm is pivoted at *h* to the upper part of the churn-box in such a manner as to allow the cog-wheel to be easily removed from the wheels C F when desired.

When desirable to inspect the contents of the churn one end of the upper part of the box may be raised, and the dashers and gearing will still remain in position. The pivoted arm H, which carries the cog-wheel G, adapts itself to such use. Also, when desirable, the cog-wheel G can be removed from position, and will rest idle at the side of the churn-box, and the large dasher B can be rotated, while the smaller one will remain stationary.

The operation of my invention is as follows: When the gearing is in proper position, as shown, the crank D being turned causes the dasher B and wheel C to revolve. This motion is transmitted, by means of the cog-wheel G, to the cog-wheel F, which rotates in an opposite direction from the wheel C, and thus the dashers are caused to rotate in opposite directions.

What I claim as new, and desire to secure by Letters Patent, is—

In combination with two dashers which rotate in opposite directions, the internally-toothed wheel C, cog-wheels F G, and pivoted arm H, arranged and adapted to operate substantially as described, and for the purpose set forth.

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

JOHN GEHR.

Witnesses:

G. CLEM GOODRICH,
GEORGE A. WARREN.