

G. W. GILBERT.  
Churn-Dasher.

No. 203,134.

Patented April 30, 1878.

Fig. 1

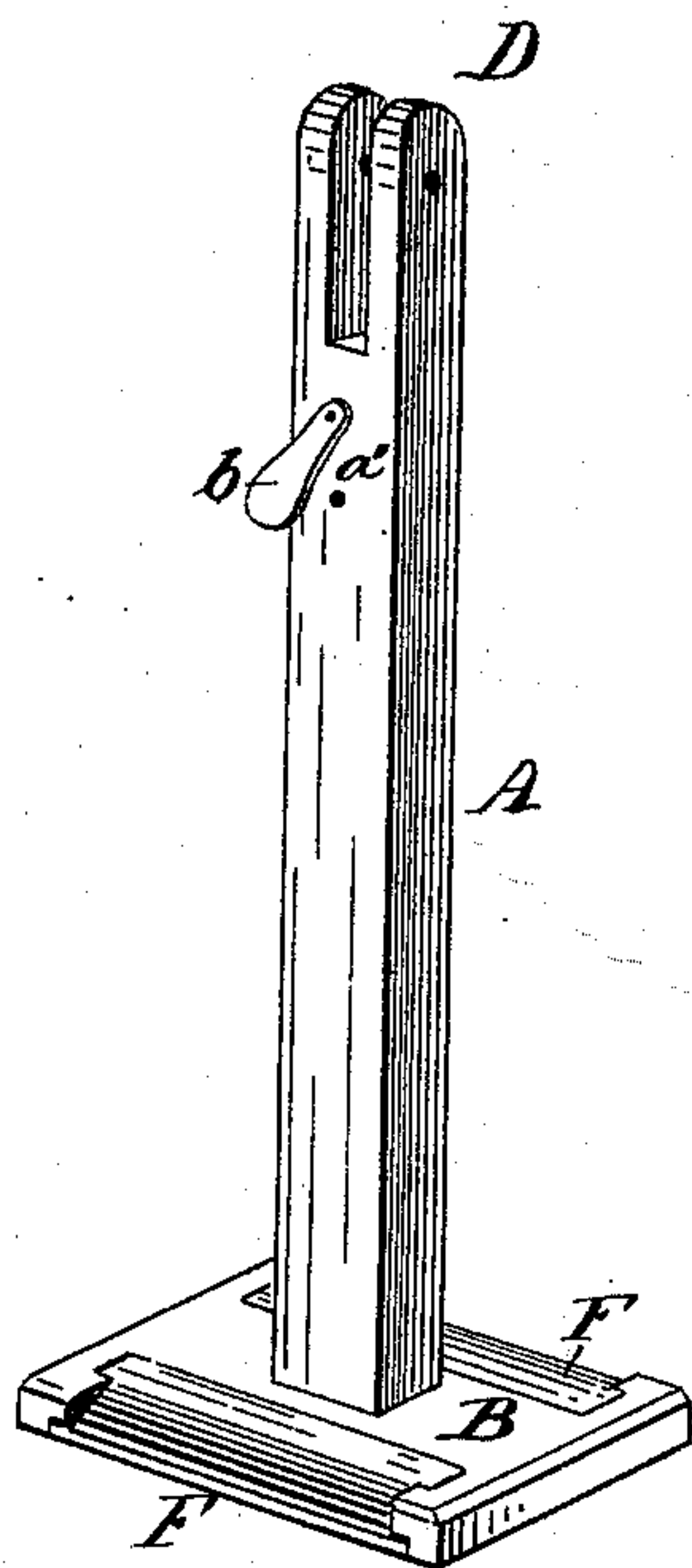


Fig. 2.

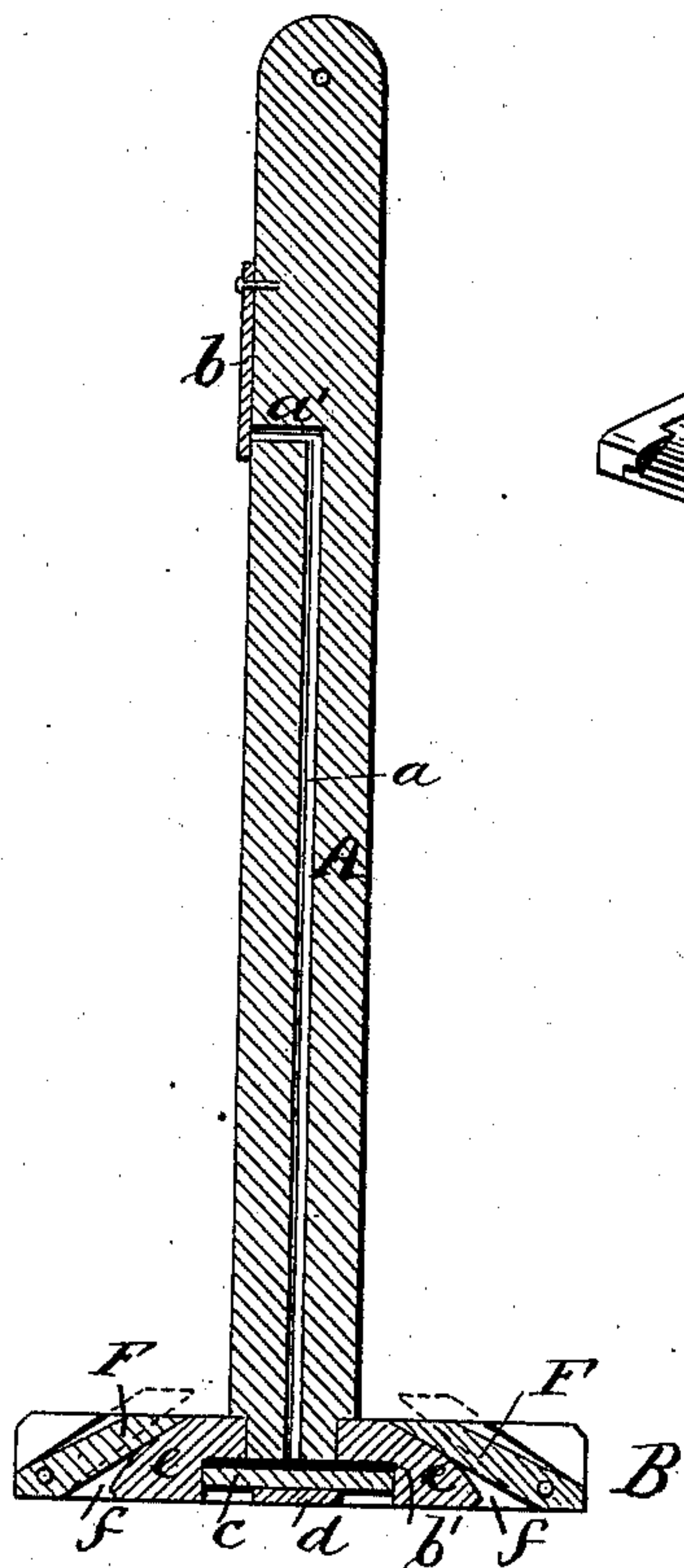
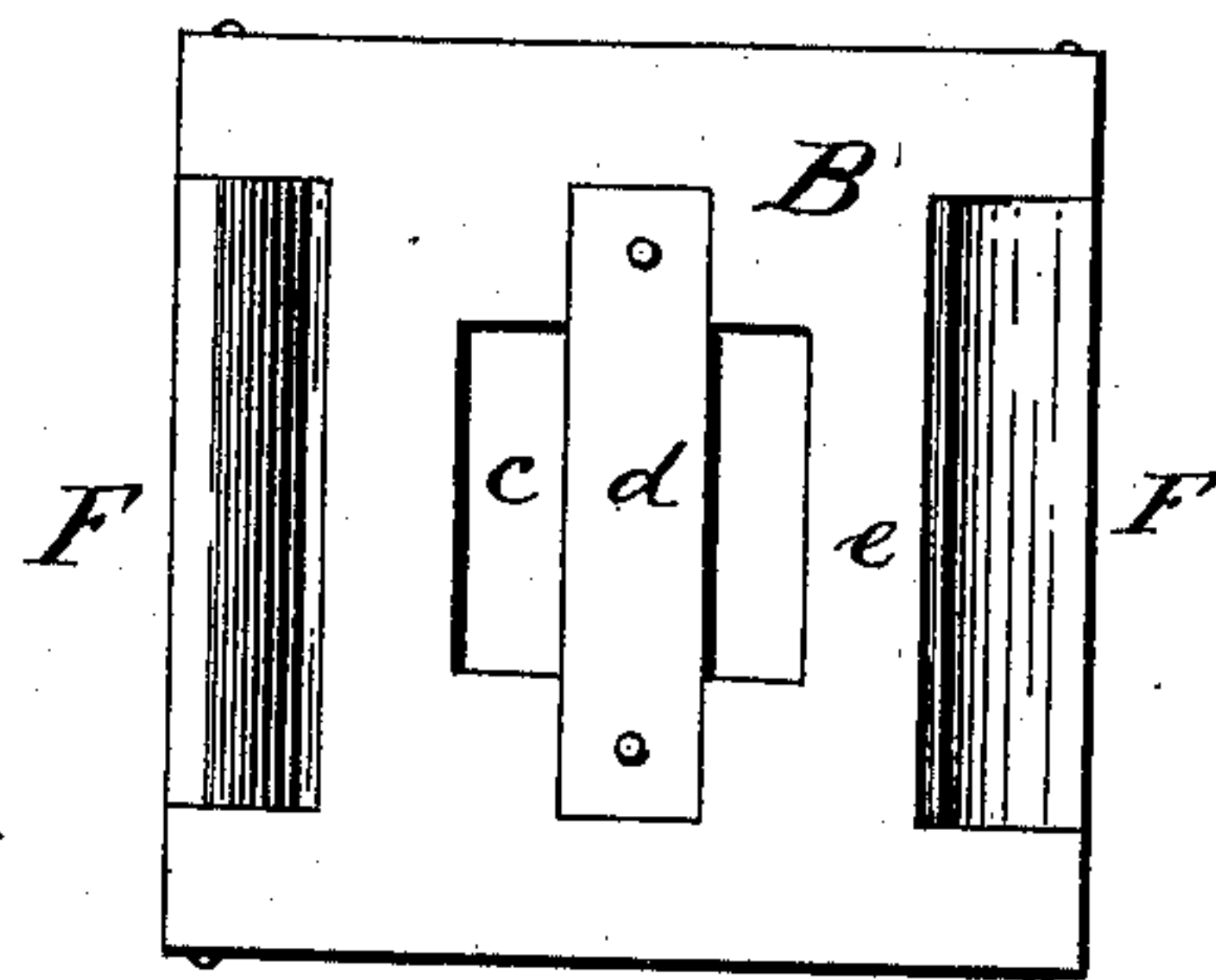


Fig. 3.



Attest:

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# UNITED STATES PATENT OFFICE.

GEORGE W. GILBERT, OF KENDALLVILLE, INDIANA.

## IMPROVEMENT IN CHURN-DASHERS.

Specification forming part of Letters Patent No. **203,134**, dated April 30, 1878; application filed March 22, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE W. GILBERT, of Kendallville, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Churn-Dashers; and do hereby declare that the following is a full, clear, and exact description of my invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view. Fig. 2 is a vertical section, and Fig. 3 is a bottom plan of my improved churn-dasher.

Similar letters of reference denote corresponding parts in all the figures.

My invention has for its object the construction of a churn-dasher by means of which cream may be converted into butter more easily and rapidly than with dashers as now ordinarily constructed; and it consists in the construction and arrangement of parts, which I shall now proceed more fully to describe, with reference to the drawings, in which—

A is the dasher-staff. This consists of a rod of suitable dimensions, having a longitudinal recess or perforation, *a*, extending from its lower end nearly to the top, where it branches out to the side, as shown at *a'*. The opening *a'* may be covered by a slide or pivoted flap, *b*. The staff A is mortised into a head or follower, B, having a central recess, *b'*, in which is placed a plate, *c*, retained in position by a cross-slat, *d*. Plate *c* forms a valve for closing the perforation *a* at its lower end, it being operated so as to alternately open and close the said opening *a* by the reciprocating up-and-down motion of the dasher.

The head or follower B consists of a plate, *e*, the sides of which have been recessed, as shown at *f f*. In the recesses are pivoted wings F F, which are normally closed, but which, by the down motion of the dasher, are opened, as shown in dotted lines, Fig. 2.

The upper end of the dasher-staff has a recess, D, in which may be pivoted the lever by which the churn is preferably operated.

The operation of my improved churn-dasher is as follows: By its down motion in the churn the wings F F are opened, thus admitting two separate currents of cream, which are thrown forcibly against each other, thus effectually breaking the cream. At the same time the valve *c* closes the opening *a*. On the up-stroke the valve *c* is opened, thus admitting a current of air into the cream, which has the effect of quickening the process of churning. The supply of air may be regulated by the slide *b*.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the staff A, having recess or perforation *a a'*, with the valve *c* and flap or slide *b*, substantially as described, for the purpose herein set forth.

2. The head or follower B, having pivoted wings F F, in combination with the staff A, having recess or perforation *a a'*, flap or slide *b*, and valve *c*, substantially as described, for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE W. GILBERT.

Witnesses:

THOMAS L. GRAVES,  
G. S. MERKLING.