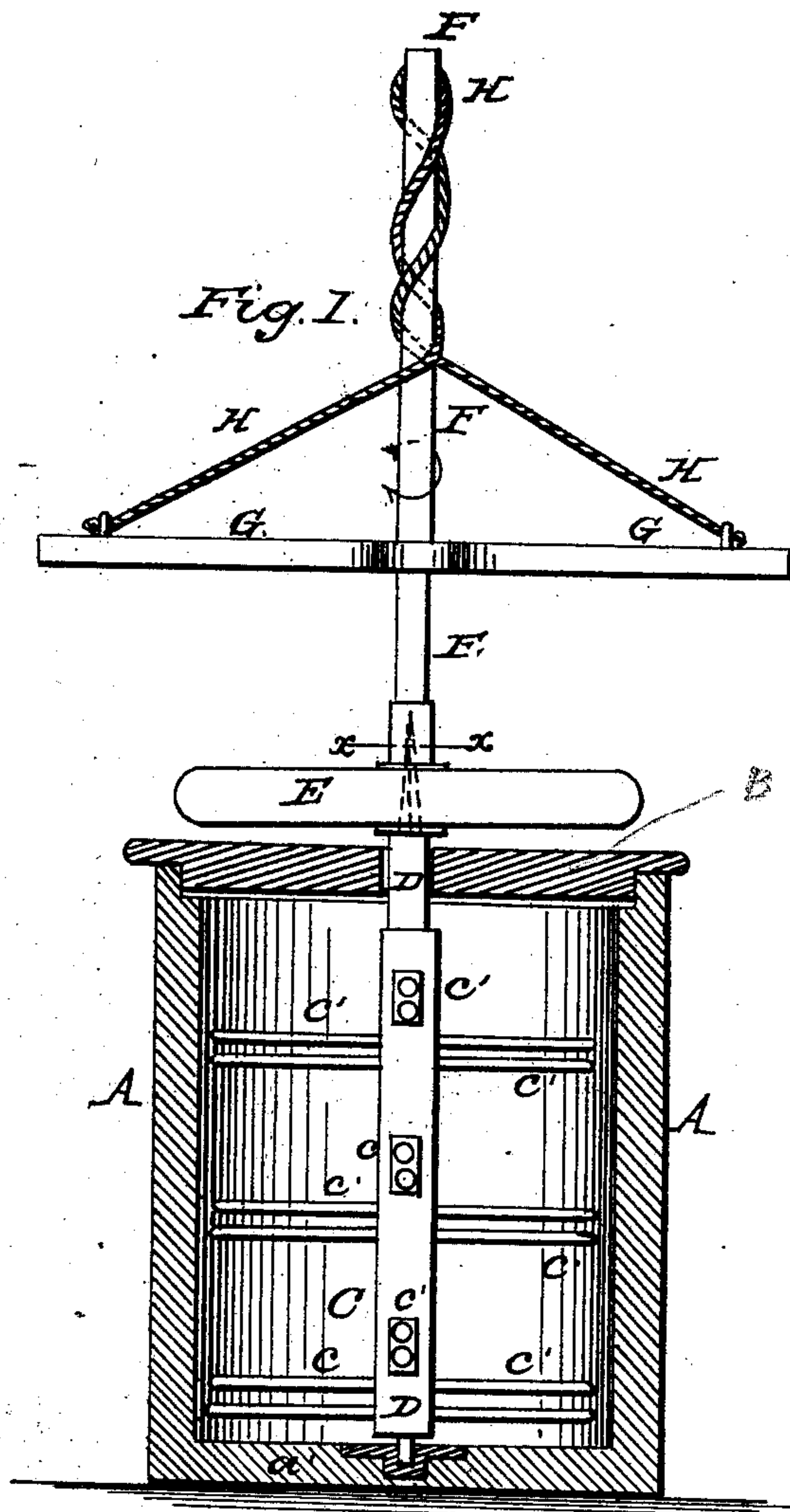


M. M. BROWN.

Churn.

No. 69,624.

Patented Oct. 8, 1867.



Witnesses
Pho Fische
J. A. Service

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UNITED STATES PATENT OFFICE.

M. M. BROWN, OF PIMENTO, INDIANA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 69,624, dated October 8, 1867.

To all whom it may concern:

Be it known that I, M. M. BROWN, of Pimento, in the county of Vigo and State of Indiana, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my improved churn. Fig. 2 is a detail section through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved means by which motion may be communicated to the churn-dasher and to other machines; and it consists in the combination of the bar, cord, and balance-wheel with each other and with the shaft to which motion is to be given, as hereinafter more fully described.

A represents a churn, and B represents its cover or lid, about the construction of which parts there is nothing new. C is the dasher, which consists of a number of radial arms, *c'*, the projecting parts of which are slotted, as shown in Fig. 1.

D is the dasher-shaft, the lower end of which terminates in a pivot, which revolves in a step attached to the center of the bottom *a'* of the churn. The upper part of the shaft D terminates in a long tenon, which fits into and passes through a hole in the hub of the balance-wheel E, as shown in dotted lines in Fig. 1, so as to carry the said balance-wheel with it in its revo-

lution. The said tenon, after passing through the hub of the balance-wheel E, enters a socket formed in the lower end of the shaft F, as shown in Fig. 2 and in dotted lines in Fig. 1, so that the shafts F and D may always move together.

G is a bar, the central part of which is perforated for the passage of the shaft F, up and down which the said bar slides freely. To the end of the bar G are attached the ends of the cord H, which passes through a hole formed in the upper end of the shaft F, as shown in Fig. 1.

In using the apparatus, the bar G is turned about the shaft F until the cord H is wound up. Then, by pressing down upon the said bar G, the shaft F will be revolved, carrying with it the shaft D, dasher C, and balance-wheel E, the said balance-wheel acquiring sufficient momentum to again wind the cord H about the shaft F. Then, by again pressing down upon the bar G, the shafts, dasher, and balance-wheel will be revolved in the opposite direction, and so on continuously until the desired result has been attained.

This device may be applied with equal efficiency to washing-machines, apple-grinders, and other similar machines.

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

The bar G, cord H, balance-wheel E, and shaft F, in combination with the churn and dashers, as herein set forth, for the purpose specified.

M. M. BROWN.

Witnesses:

W. D. HAMPTON,
JOS. C. STROLE.