

(No Model.)

D. C. & H. P. CAMP.

CHURN MOTOR.

No. 302,982.

Patented Aug. 5, 1884.

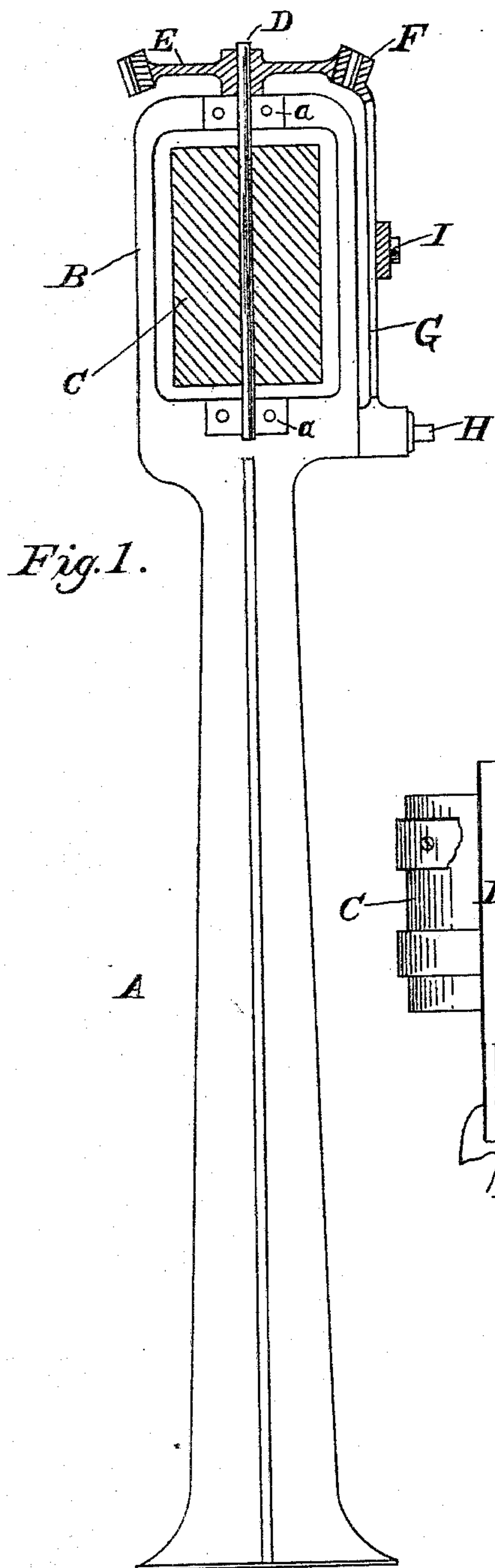


Fig. 1.

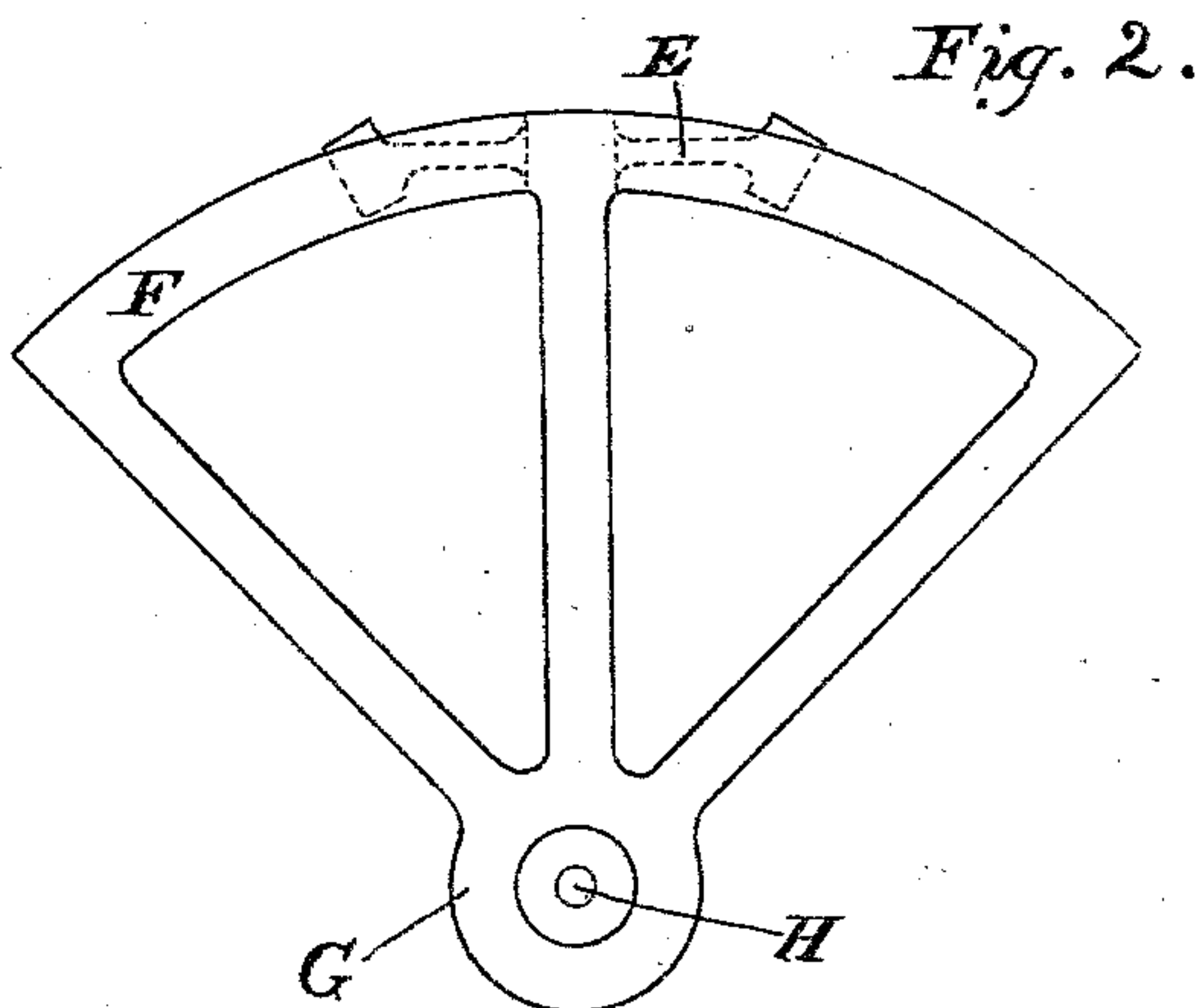


Fig. 2.

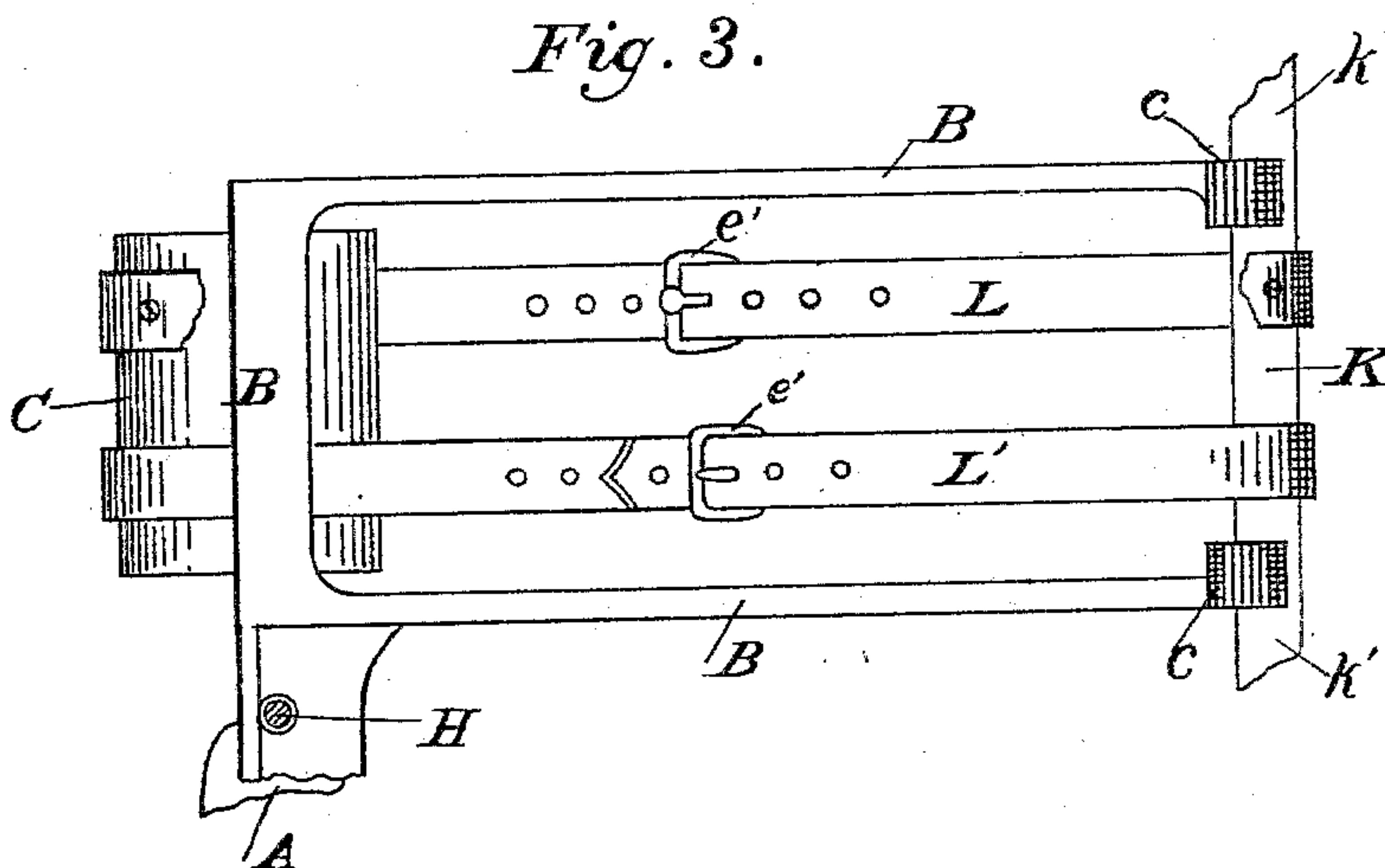


Fig. 3.

WITNESSES

Jas. L. Talbot
C. H. Sherr,

D. C. Camp
H. P. Camp } INVENTORS.

H. F. Tunis, Attorney,

UNITED STATES PATENT OFFICE.

DAVID C. CAMP AND HENRY P. CAMP, OF ATHENS, GEORGIA.

CHURN-MOTOR.

SPECIFICATION forming part of Letters Patent No. 302,982, dated August 5, 1884.

Application filed June 23, 1884. (No model.)

To all whom it may concern:

Be it known that we, DAVID C. CAMP and H. P. CAMP, citizens of the United States, residing at Athens, in the county of Clarke and State of Georgia, have invented certain new and useful Improvements in Mechanical Motors, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention has relation to mechanical motors, and more particularly to that class known as "churn-powers;" and the object of the invention is to provide a simple, effective, and inexpensive device for the rapid production of butter in connection with the ordinary form of churn; and to this end the novelty consists in the combination, construction, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same letters of reference indicate the same parts of the device.

Figure 1 is a vertical elevation, partly in section, of the standard and driving mechanism. Fig. 2 is a side view of the operating-quadrant, and Fig. 3 is a detached view of the top of the frame of the quadrant.

A is a cast standard of suitable dimensions, having a horizontal rectangular frame, B, secured to the top thereof.

C is a drum vertically mounted on the shaft D in the top of the standard A, and secured thereto by the caps *a a*, and upon the top of said shaft D is secured a beveled gear-wheel, E, which meshes with the toothed periphery F of the quadrant G, journaled upon the stud H of the standard A. A suitable handle is secured to the quadrant at I, and it will be seen that when a reciprocating motion is com-

municated to the quadrant it in turn imparts a backward and forward rotary motion to the bevel-gear E, shaft D, and drum C.

K is the dasher-shaft, journaled in semicircular bearings *c c*, in the forward end of the frame B, and in the same vertical plane with the drum C.

L L' are two straps having their opposite ends secured to the dasher-shaft and drum, and the reciprocating rotary motion of the drum is communicated to the shaft by means of said straps, which have buckles *c c'*, whereby any lost motion or stretching of the straps may be taken up.

To the top *k* of the dasher-shaft K may be secured a fan, whereby flies and other insects are kept away from the machine during the act of churning, and at the same time it will keep the operator cool while at work. To the lower end, *k'*, of the dasher-shaft is secured the usual form of dash-agitator. (Not shown.)

Having thus fully described our invention, what we claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. The combination, with the standard A, having drum C, gear E, and quadrant G, of the dasher-shaft K, having straps L L', as and for the purpose set forth.

2. The combination, with the standard A, having rectangular frame B, quadrant G, and dasher-shaft K, of the drum C, gear E, and straps L L', as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

DAVID C. CAMP.
H. P. CAMP.

Witnesses:

R. F. WHITE,
E. B. THOMPSON.