

V. PALMER.

Churn.

No. 60,414.

Patented Dec. 11, 1866,

FIG. 1.

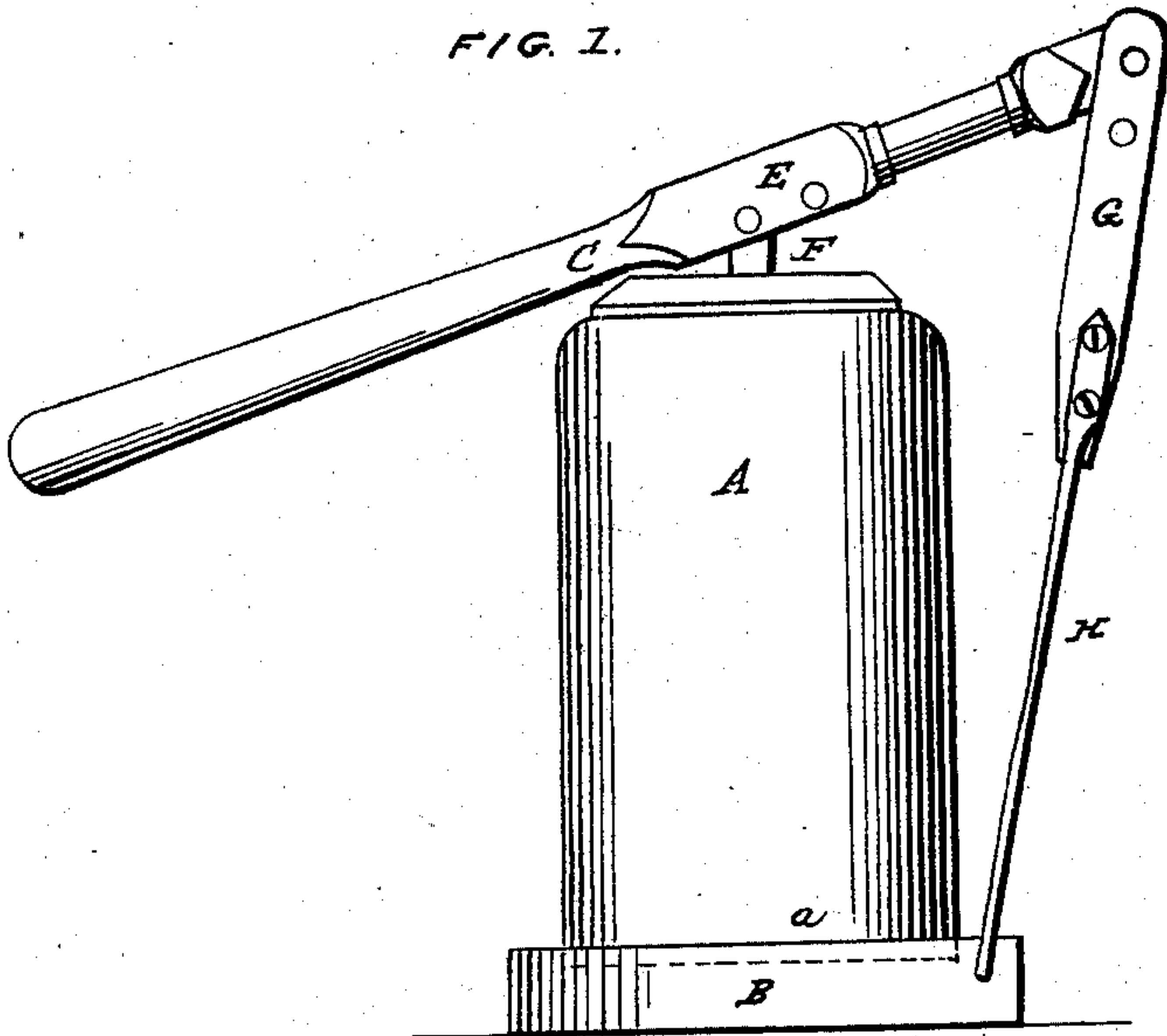


FIG. 3.

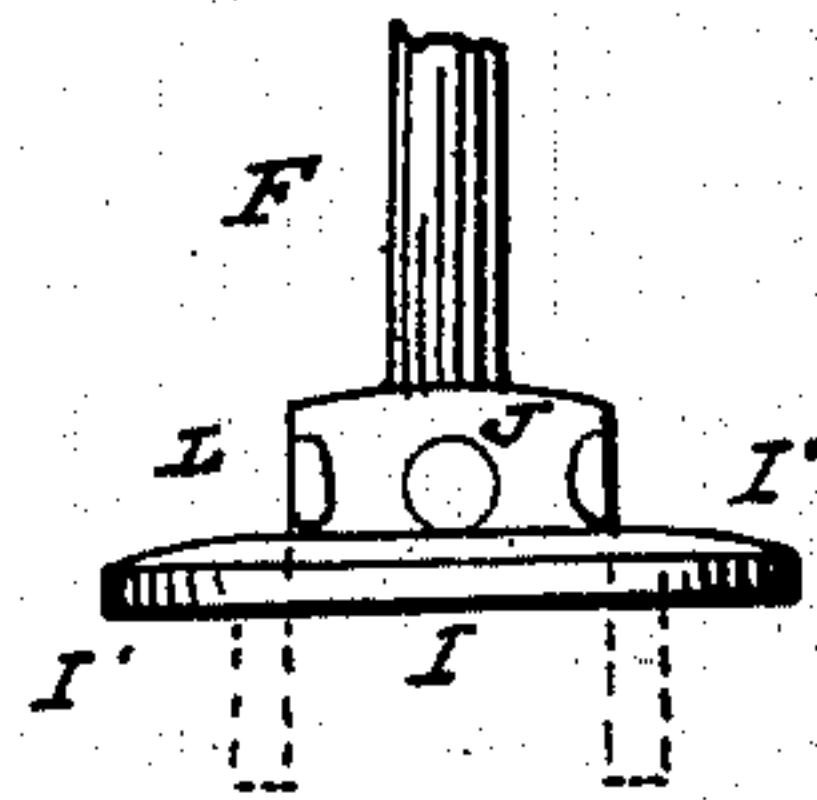


FIG. 4.

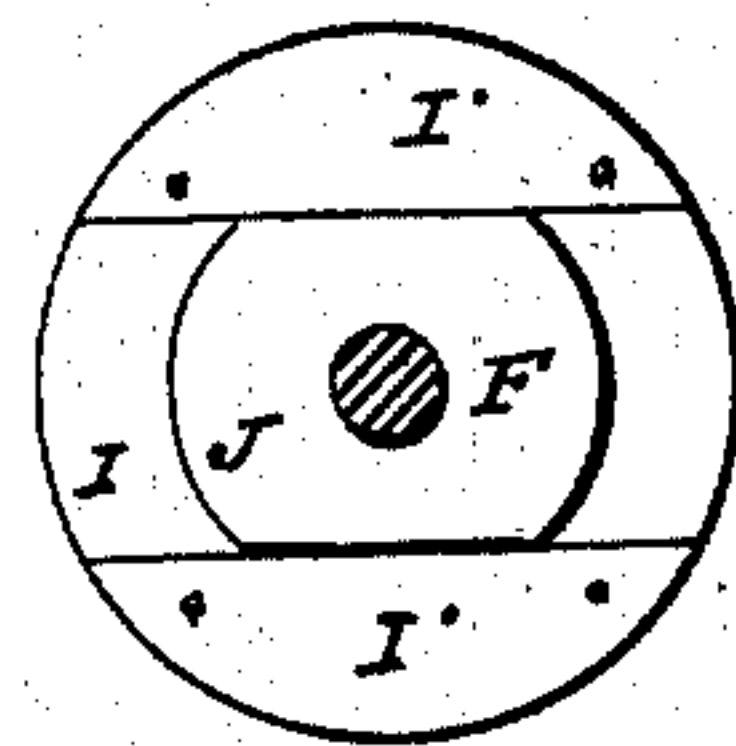


FIG. 5.

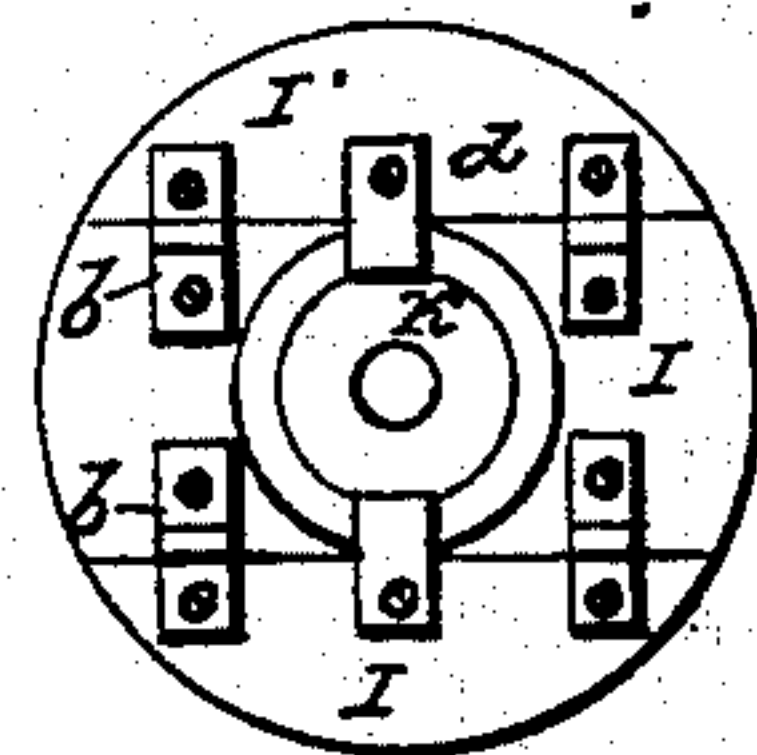
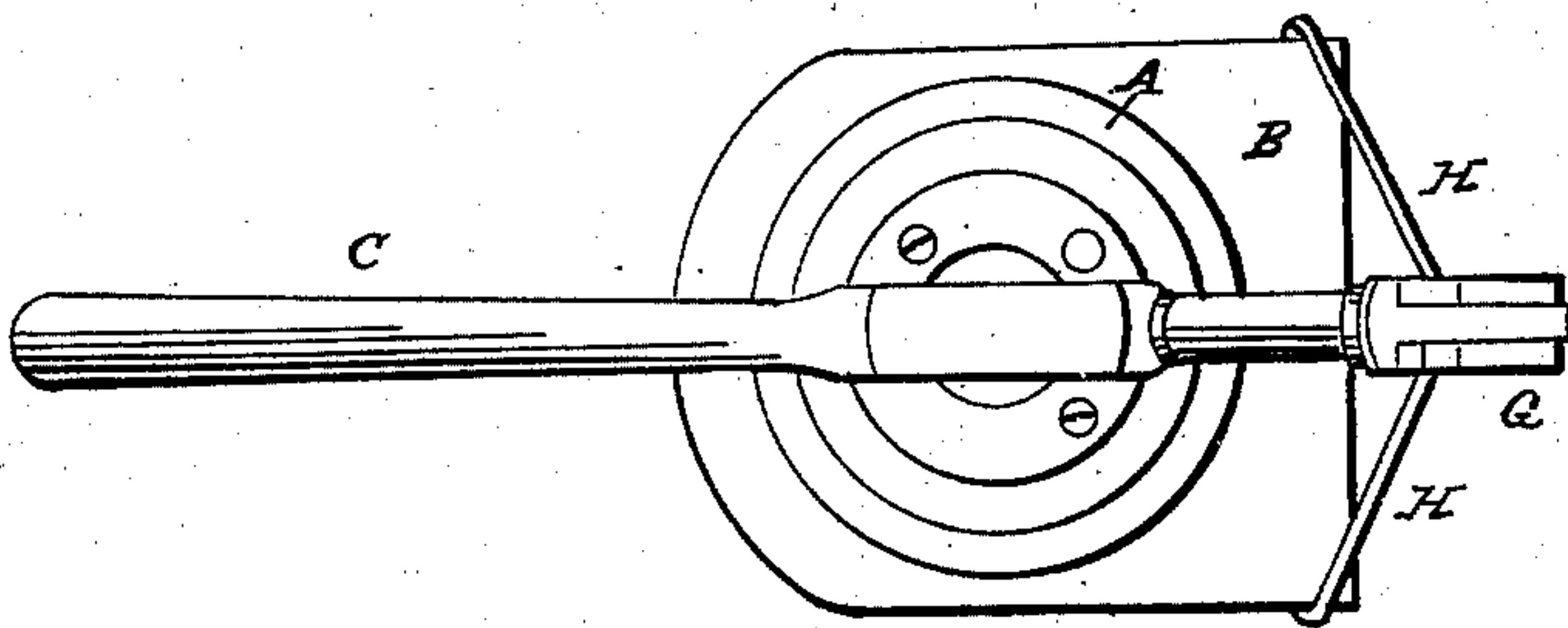


FIG. 2.



WITNESSES:

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INVENTOR.

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United States Patent Office.

IMPROVEMENT IN CHURNS.

V. PALMER, OF CASTALIA, OHIO.

Letters Patent No. 60,414, dated December 11, 1866.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, V. PALMER, of Castalia, in the county of Erie, and State of Ohio, have invented certain new and useful improvements in Churns; and I do hereby declare that the following is a full and complete description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the churn.

Figure 2 is a top view of the same.

Figure 3 is a side view of the churn-dasher.

Figure 4 is a top view of the dasher.

Figure 5 is a bottom view of the same.

Like letters of reference refer to like parts in the different views.

A, fig. 1, is the body of the churn, which may be constructed of wood or stone, and of the ordinary shape and capacity. B is a base, on which the churn stands; a circular chamber is cut out in the top of this base, the size of the bottom of the churn, and in which it stands, as indicated by the dotted lines *a*, fig. 1; this is in order to prevent the churn from slipping about while in use. C is a lever or handle, and is pivoted at the point E to the stem F of the dasher; the short arm of the lever is pivoted to the upper end of the link G, and the lower end of this link is attached to the base B by the sub-links H, in the manner as shown in fig. 2, in which it will be seen that the lower ends of the sub-links are hooked into the sides of the base, thereby forming a pivoted joint. By the means of these links and the handle, the dasher is operated in a vertical direction, the same as the ordinary dash churns. The dasher used in this churn is constructed in the following manner. Fig. 3 is the dasher, and consists of four sections. I is the central section, to each side of which are hinged the wings or sections I', by means of the butts *b*, fig. 5. These wings, being hinged to the sections in this manner, permit of their hanging downward in the direction indicated by the dotted lines *c*, fig. 3, while being drawn upward in the act of churning, and again spreading outward by the resistance of the cream in its downward action. *d* are checks, one end of which is secured to the wing; the other, being free, falls against the side of the central section, and thereby prevents the wings from falling inward upon the centre. J is the fourth section of the churn, and consists of a hollow boss, opening on the under side of the dasher, as shown in fig. 5, K being the opening or chamber thus formed. Around in the sides of this boss are the small holes L, which open into the chamber before described. Of the several advantages derived from a dasher constructed as above described, we instance the following: The dasher being constructed with the adjustable wings, it can be introduced into any churn, the neck of which is smaller than the body; when thus introduced, and the wings spread out, it nearly fills the diameter of the churn; hence the cream is more thoroughly stirred than it could be if the dasher was very much smaller. Also, by the collapsing of the wings, on the lifting of the dasher, gives more room for the cream to pass down between the dasher and the side of the churn, and thereby rendering the work much less laborious. The cream being forced up through the chamber, and out of the holes in the side of the boss, is in consequence more thoroughly agitated, and the globules are therefore broken in a much shorter space of time; hence the churning is more quickly and easily done. This form of dasher assists very much in gathering the butter, by means of the pendent wings; also, by its use the churning can be done without using a cover to the churn, as the dasher prevents the cream from dashing violently upward. The extra holes in the links and handle may be used to increase the length of the stroke of the dasher, when a large amount of cream is being churned.

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

The perforated dasher I, with the adjustable wings I', and checks *d*, as arranged in combination with the links H and G, and the handle F, in the manner and for the purpose set forth.

V. PALMER.

Witnesses:

T. W. McCARTY,

V. B. PALMER.