

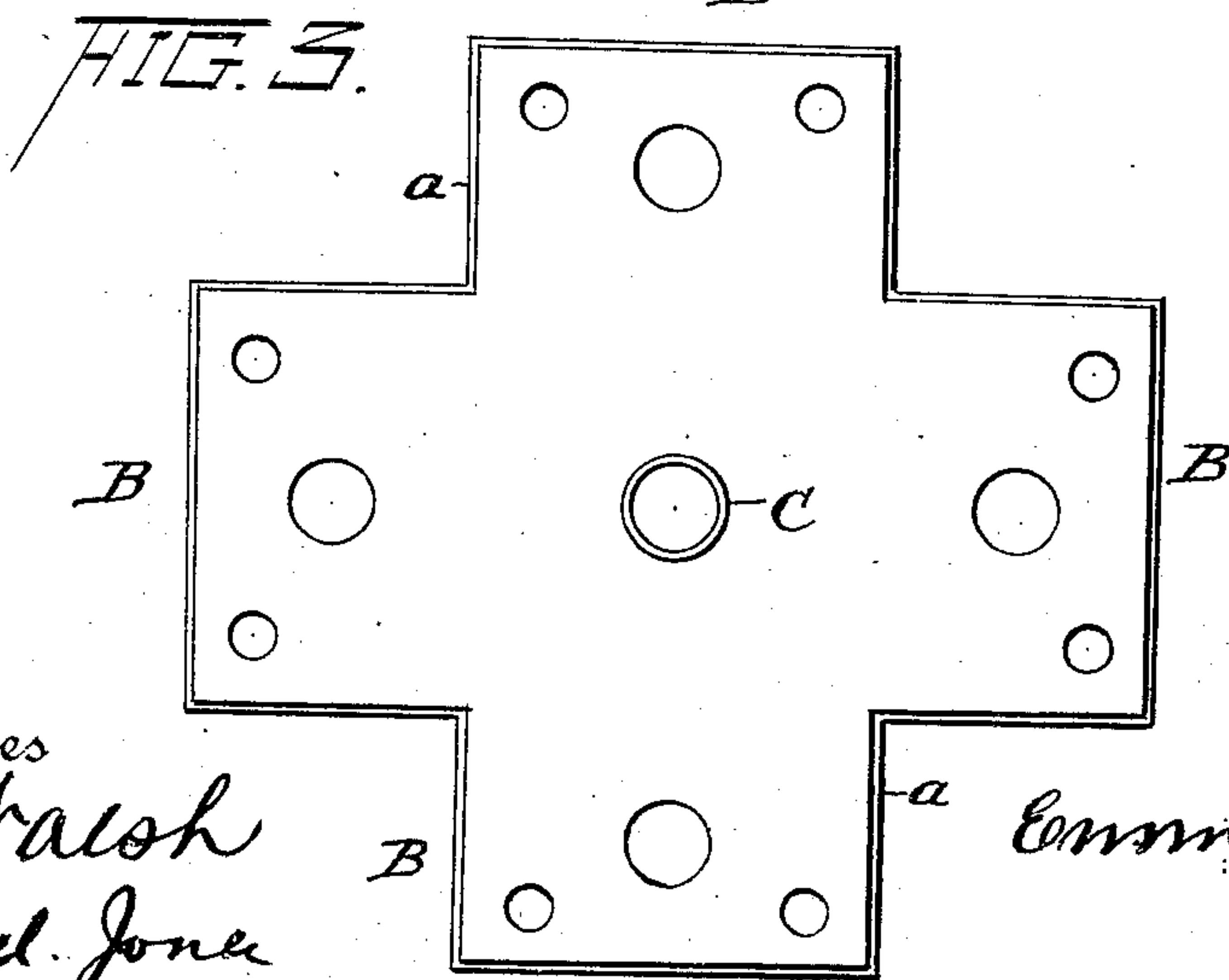
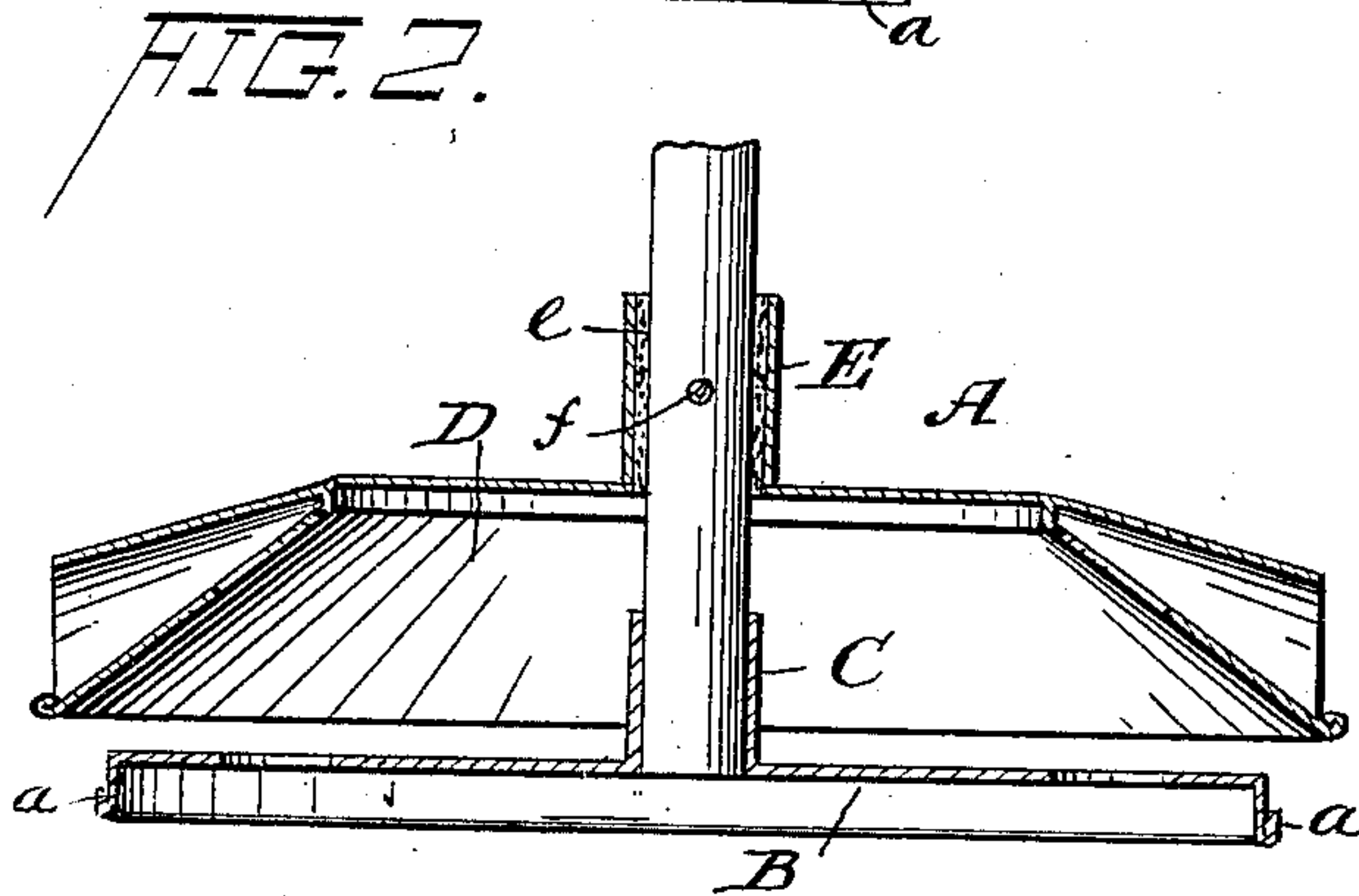
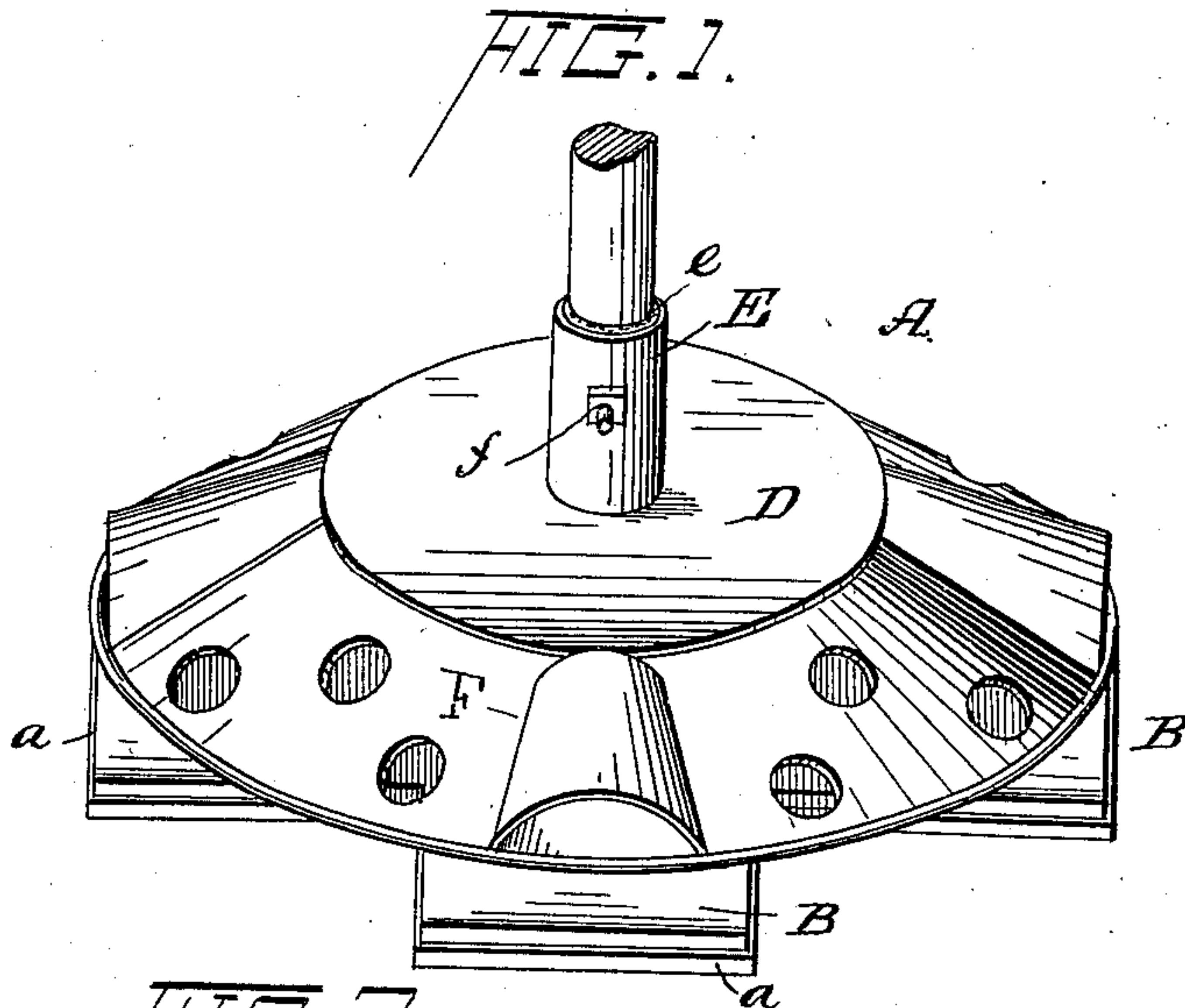
No. 661,159.

Patented Nov. 6, 1900.

E. G. THOMAS.
CHURN DASHER.

(Application filed Mar. 14, 1900.)

(No Model.)



Witnesses
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CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 661,159, dated November 6, 1900.

Application filed March 14, 1900. Serial No. 8,686. (No model.)

To all whom it may concern:

Be it known that I, EMMA G. THOMAS, a citizen of the United States, residing at Comstock, in the county of Sciota and State of Ohio, have
5 invented certain new and useful Improvements in Churn-Dashers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it
10 appertains to make and use the same.

My invention relates to improvements in churn-dashers; and the object is to provide a dasher of simple construction and easily operated with a minimum expenditure of labor.

15 With these ends in view the invention consists in the novel construction and combination of parts, as will be hereinafter more in detail described, and particularly pointed out in the claim.

20 In the accompanying drawings, to which reference is had and which fully illustrate my invention, Figure 1 is a perspective view. Fig. 2 is a vertical section of the same, and Fig. 3 is a plan view of the bottom thereof.

25 Referring to the drawings, A designates the dasher, composed of two sections—an upper and a lower section—the lower one of which consists of two horizontal wings B B, recessed upon its under side, the recesses being formed
30 by flanges *a* and the wings being disposed relatively to each other in such a manner as to describe a cruciform figure and secured upon the lower end of the dasher-shaft in a manner which will be hereinafter explained.
35 Centrally secured to this dasher-section is a short tube C, by means of which this section of the dasher is secured to the dasher-shaft. Near the free ends of the wings or arms B B of the dasher-section is disposed a suitable
40 number of perforations of different diameters, as clearly shown in Fig. 1 of the drawings.

D designates the upper section, which is in the form of the frustum of a cone and provided centrally with a short tube E, similar
45 to that of the lower section of the dasher and in alinement therewith, through which the dasher-rod is passed, and interposed between the dasher-rod and the short tube E is a gasket or packing *e*. A bolt-fastening *f*, which
50 is screw-threaded upon one end, has a nut engaging the same, the bolt *f* being passed trans-

versely through the short tube E, gasket *e*, and dasher-rod, securely fastening these parts together. This section of the dasher is also provided with semi-elliptical tubes F upon its
55 surface in a radial manner from its center, having their outer and larger ends open for the free ingress of the cream, and beneath these elliptical tubes at their inner or smaller ends and formed through the dasher are a
60 number of U-shaped openings, one for each tube, these U-shaped openings registering with the larger openings in the lower section, and formed within the dasher, between each
65 of these semi-elliptical tubes, are a suitable number of perforations smaller in diameter than the U-shaped openings.

By my peculiar construction of dasher and the arrangement of the larger perforations or openings and the smaller ones of the same
70 upon both sections of the dasher it will be perceived that I am enabled to produce such circulation and friction of the cream as will quickly and thoroughly produce butter, and among other advantages it is economical in
75 construction, durable, and not likely to get out of order.

Having thus described my invention, what I claim as new, and desire to secure by Letters
80 Patent, is—

The combination with the lower cruciform section having the perforations of different diameters near the ends of the wings of the same, and a central tube of the upper section forming the frustum of a cone, and having
85 the semi-elliptical tubes, and U-shaped openings in the dasher directly beneath the inner or smaller end of the elliptical tubes, the elliptical tubes disposed radially upon the section of the dasher, perforations formed be-
90 tween the elliptical tubes, the tubes secured centrally to the dasher, gasket or packing interposed between the central tube and dasher-rod and the bolt and nut for securing them together, all constructed and arranged for
95 joint operation substantially as described, and for the purpose set forth.

EMMA G. THOMAS.

Witnesses:

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