

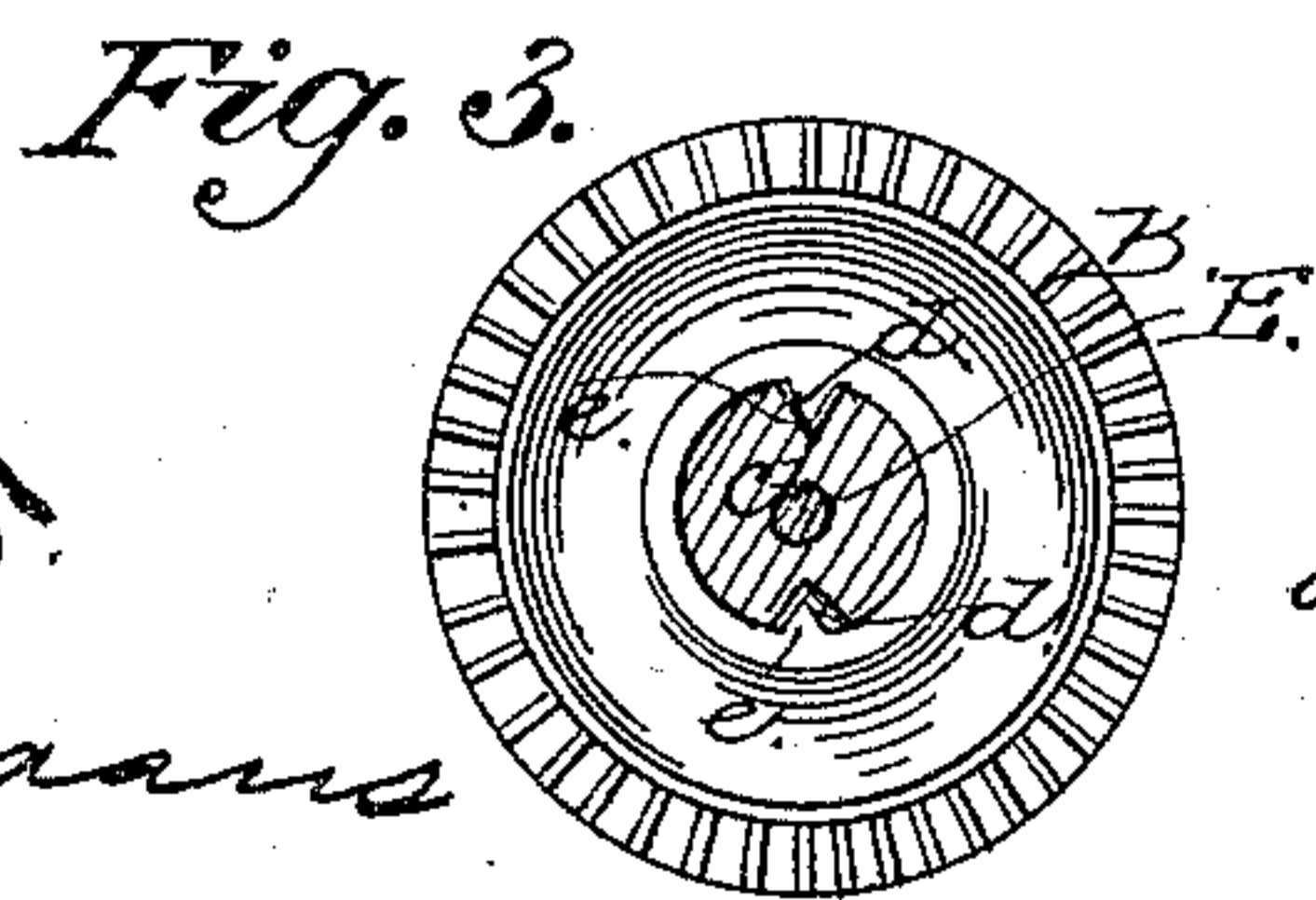
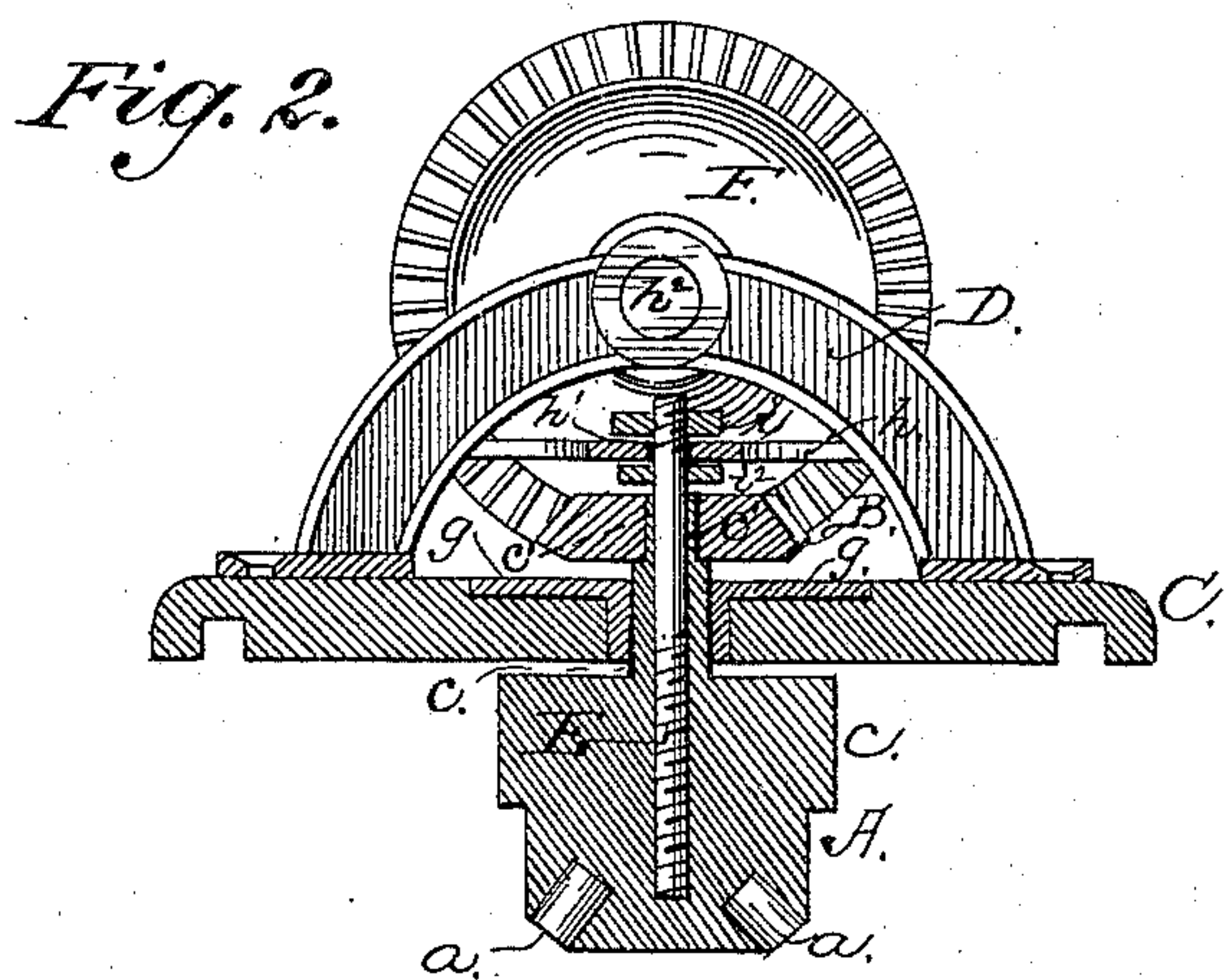
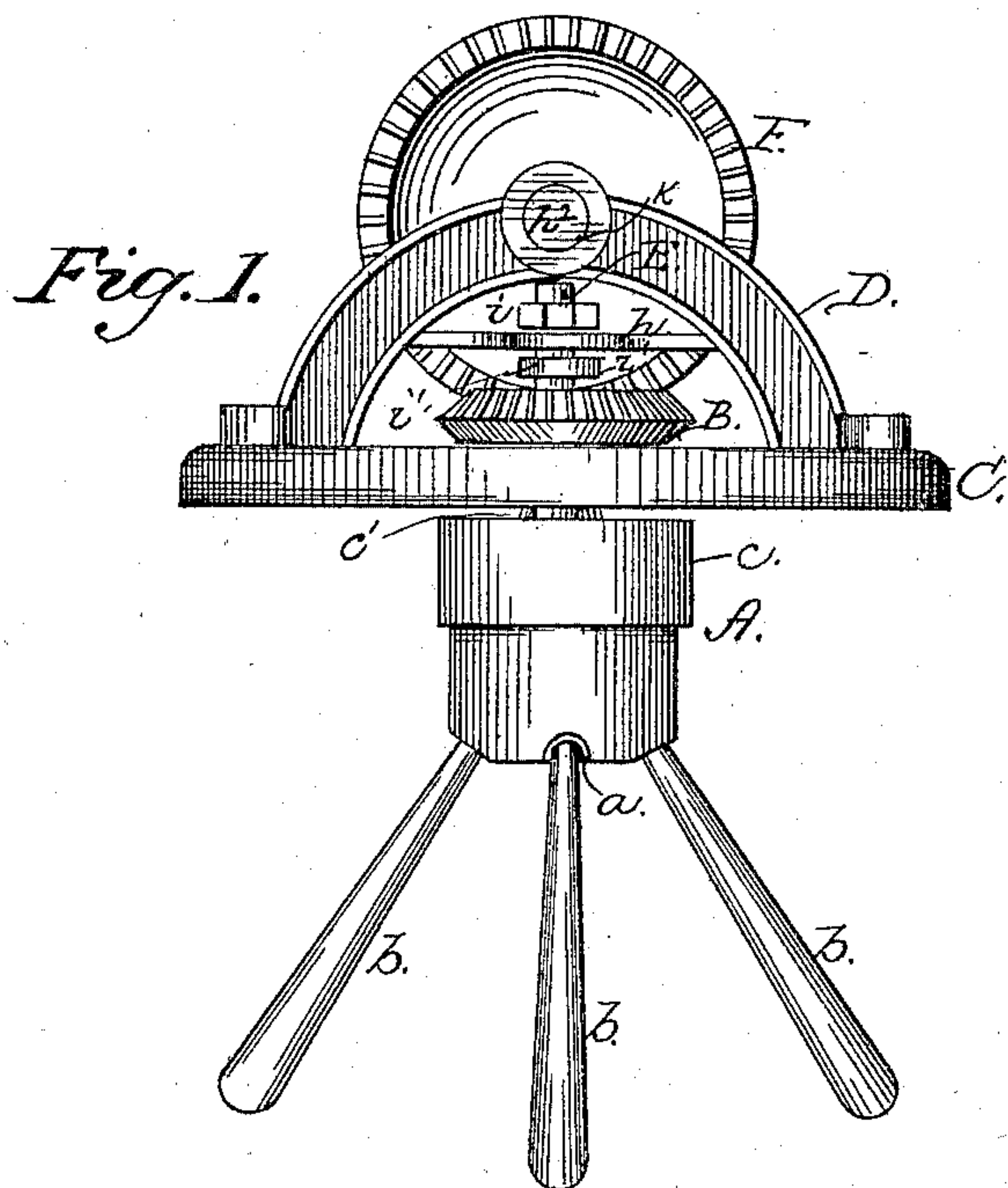
(No Model.)

H. F. BRAMMER & E. H. SCHMIDT.

CHURN.

No. 335,739.

Patented Feb. 9, 1886.



Witnesses:

Wm. H. H. H.

J. H. Adriaans

Inventor:

Henry F. Brammer

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By Parker H. Green, Jr.
Att'y

UNITED STATES PATENT OFFICE.

HENRY F. BRAMMER AND E. HUGO SCHMIDT, OF DAVENPORT, IOWA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 335,739, dated February 9, 1886.

Application filed October 27, 1885. Serial No. 181,066. (No model.)

To all whom it may concern:

Be it known that we, HENRY F. BRAMMER and E. HUGO SCHMIDT, citizens of the United States, residing at Davenport, in the county of Scott and State of Iowa, have invented certain new and useful Improvements in Churns; and we do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Our invention has for its object to provide an improved novel and simplified churn, whereby the parts are rendered capable of ready adjustment, combined with ease of operation and durability of structure; and the features of novelty consist, essentially, in the details of construction and general arrangement of parts, all as will be hereinafter fully described, and specifically designated in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of our improvements; Fig. 2, a vertical longitudinal section of the same, and Fig. 3 an enlarged detail view thereof.

Similar letters of reference occurring on the several figures indicate like parts.

In carrying out our invention the dash-block is formed of a cylindrical or other suitably-shaped body, A, provided upon its bottom with a series of holes, *a*, for the reception of the dash-blades *b*, and provided upon its upper surface with a central hub, *c*, terminating in an upwardly-extending and tapering shank, *c'*, as shown. Upon two or more opposite sides of the tapering shank *c'* are provided vertically-arranged grooves *d*, preferably of a V shape in cross-section, for the reception of correspondingly-shaped projections *e* upon the inner circumference of the central opening of the pinion B. The central opening of the lid or cover C is provided with a metallic bushing, *g*, through which the tapering shank *c'* of the dash-block A passes, and in which it is adapted to revolve. A verti-

cally-arranged arch or frame, D, is secured upon the upper surface of said lid or cover, directly over the central opening, *g*, and is provided with a cross-frame, *h*, having a vertical hole, *h'*, for the passage of the rod E, which projects down through the center of the tapering shank *c'*, pinion B, and block A, in which latter it is rigidly secured. Upon the rod E, above the cross-frame *h*, is attached a nut, *i*, while below said cross-frame is attached a washer, *i'*, to prevent the block A from dropping down into the churn, and said nut and washer may be so operated as to regulate the upward or downward adjustment of said dash-block A. At the upper central part of the arch or frame D is also provided a horizontally-arranged hole or opening, *h''*, for the reception of the spindle or shaft *k* of the pinion F, the cogs of which mesh with corresponding cogs upon the pinion B, and said spindle or shaft *k* is provided with a suitable crank or handle (not shown) for imparting motion to the dash-block and blades through the medium of the pinions. While our invention is adapted more particularly for use in connection with churns, it is obvious that it may be applied to washing-machines with equal effect, and such application is hereby contemplated by us.

We are aware that washing-machine covers have heretofore been provided with a centrally-journaled head, having pins or blades projecting radially therefrom, which is adapted to be rotated by cog-gearing actuated by a suitable handle, and we do not therefore desire to claim such a construction, broadly.

Having thus described our invention, what we claim as new and useful is—

1. The herein-described churn dash and cover, consisting of the dash-block A, formed with the central hub, *c*, tapering shank *c'*, provided with grooves *d*, bolt E, having nut *i* and washer *i'*, pinion B, provided with projections *e*, pinion F, provided with a suitable handle, and the lid or cover C, provided with the central bushing, *g*, and arch or frame D *h*, having openings *h'* *h''*, the parts being combined substantially as and for the purpose specified.

2. The dash-block A, provided upon its lower surface with a series of holes, *a*, and upon its upper surface with the hub *c*, shank *c'*, having grooves *d*, and bolt E, having nut *i* 5 and washer *i'*, in combination with the pinions B and F, substantially as and for the purpose specified.

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

HENRY F. BRAMMER.
E. HUGO SCHMIDT.

Witnesses:

A. JACKSON HIRSCHL,
HENRY VOLLMER, Jr.