

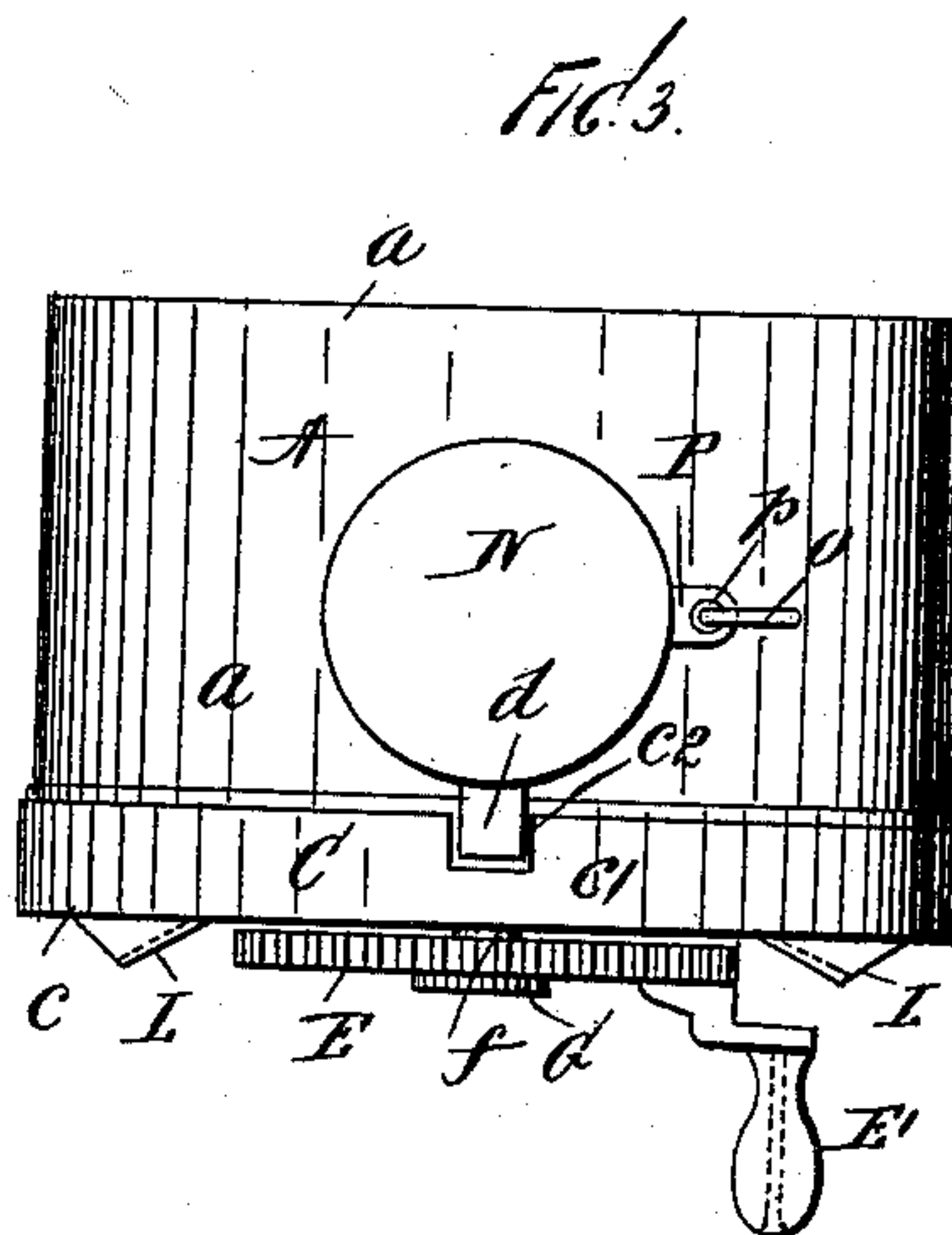
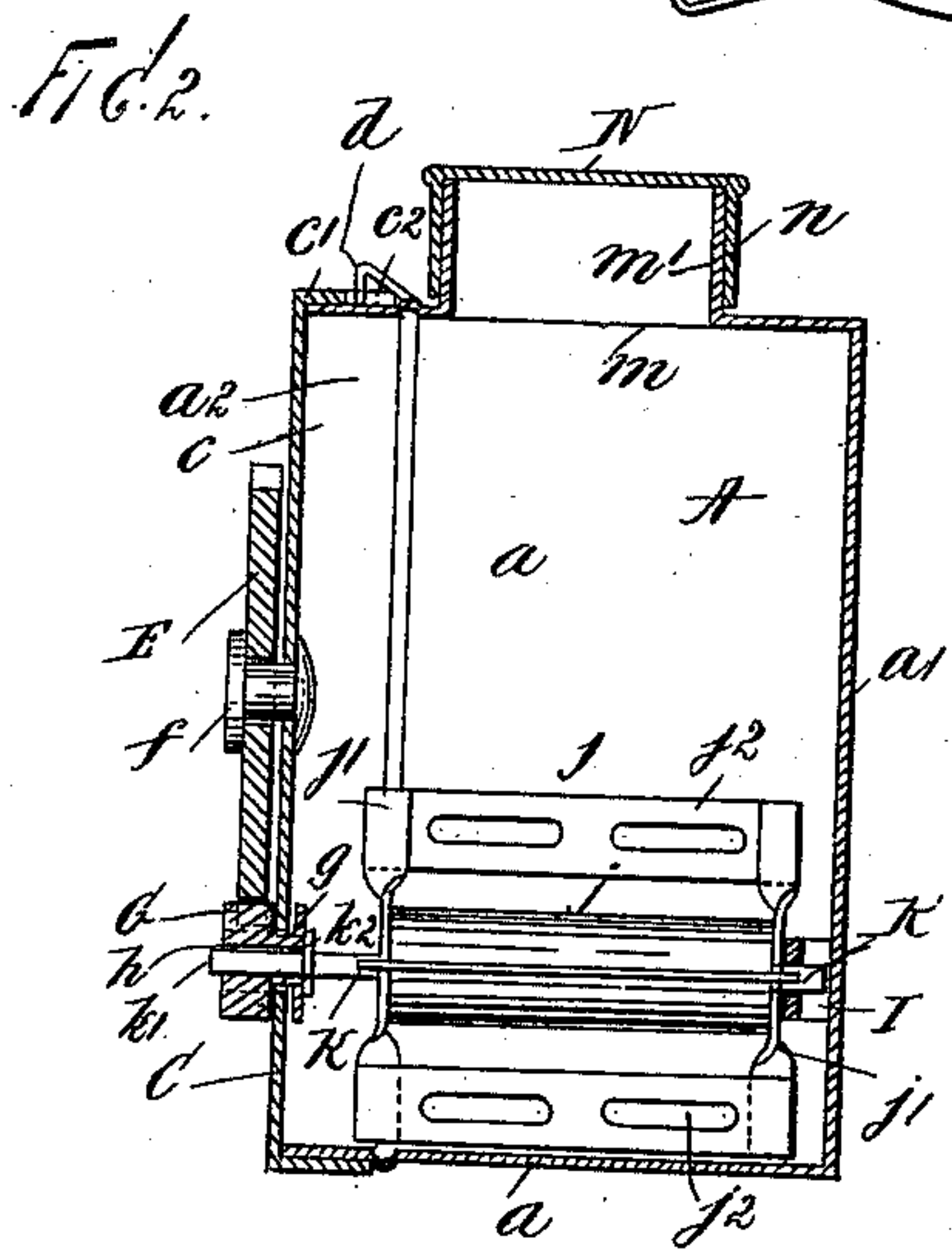
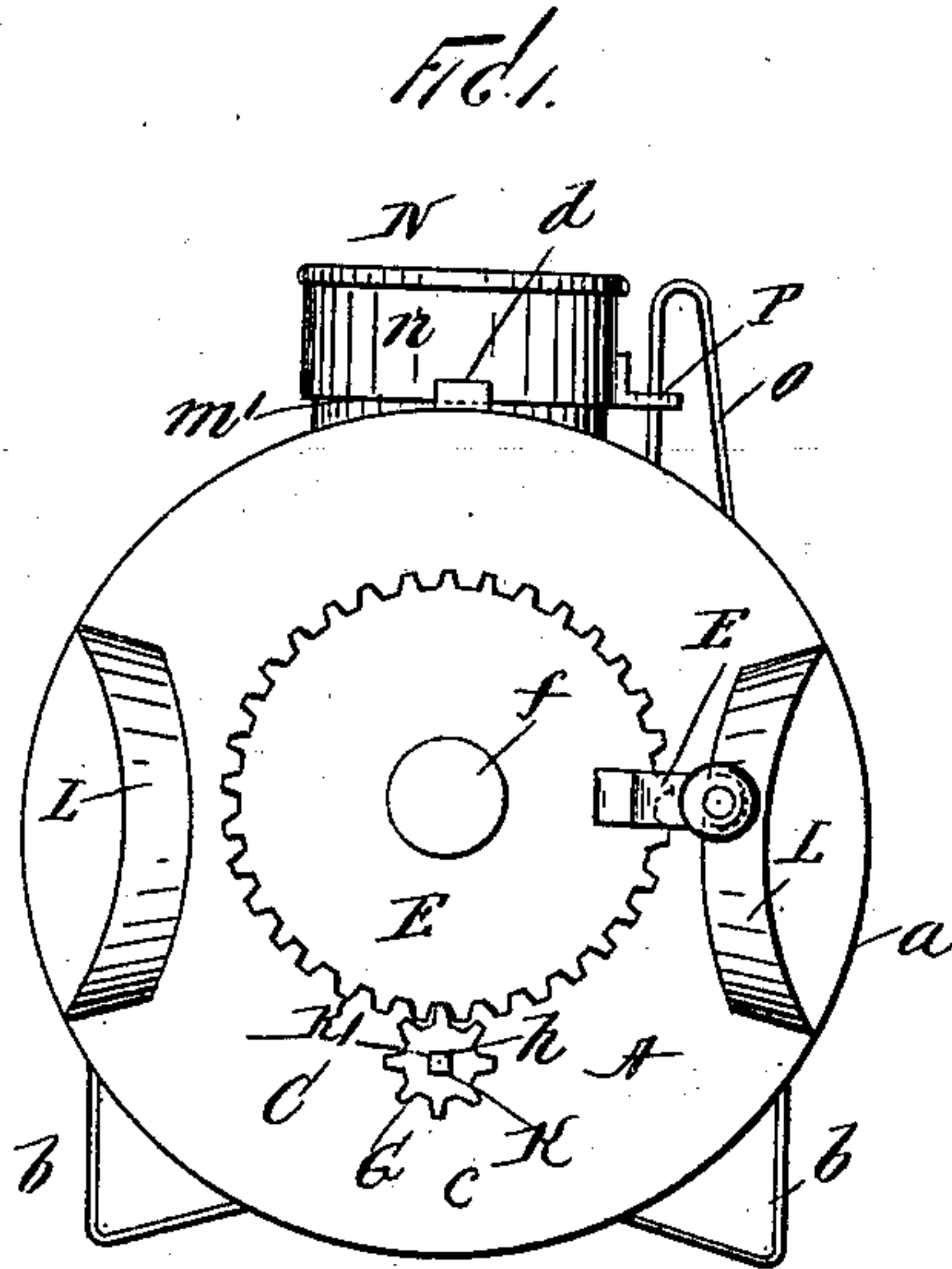
No. 628,471.

Patented July 11, 1899.

C. JULIER.
DEVICE FOR BEATING EGGS, &c.

(Application filed Jan. 24, 1898.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

CAMILLA JULIER, OF GREENFIELD, INDIANA, ASSIGNOR OF TWO-THIRDS
TO MARY E. SWOPE AND WILLIAM J. BORREY, OF SAME PLACE.

DEVICE FOR BEATING EGGS, &c.

SPECIFICATION forming part of Letters Patent No. 628,471, dated July 11, 1899.

Application filed January 24, 1898. Serial No. 667,802. (No model.)

To all whom it may concern:

Be it known that I, CAMILLA JULIER, a citizen of the United States, residing at Greenfield, in the county of Hancock and State of Indiana, have invented certain new and useful Improvements in Devices for Beating Eggs and Analogous Purposes, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for beating eggs and for analogous purposes; and it has for its object to provide a simple and improved device of this character which will be convenient in operation, simple in construction, and which will serve the double office of a beater and a receptacle for containing the eggs and other substances after the operation of beating is completed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 is a side elevation of a device embodying my improvements. Fig. 2 is a vertical transverse sectional view, and Fig. 3 is a top or plan view.

Referring to the drawings, A designates a cylindrical casing, which comprises side walls a and an end wall a' , opposite which latter the side or end of the casing is open, as at a^2 . The casing is adapted to be mounted in either vertical or horizontal position, according to its different uses or operation. When mounted in horizontal position, the end wall a' will form the bottom or support, and when mounted in vertical position the cylindrical or peripheral side wall a of the casing will form a supporting edge at the bottom, transverse laterally-projecting feet $b b$ being provided upon the side wall a at opposite sides of the bottom-supporting edge, as shown in Fig. 1, to brace and sustain the casing in upright position during the operation of the beating mechanism.

The open side or end a^2 of the casing is closed by a removable cap or cover C, which comprises a disk c , corresponding to and clos-

ing the open side or end a^2 and carrying an annular projecting flange c' , which surrounds the cylindrical edge of the casing at its open side. A tight closure or joint between the removable cap or cover C and the open side or end of the casing is thus formed, and the flange c' of the cap may be notched or recessed, as at c^2 , preferably at a point coincident with the top, which notch or recess will receive a corresponding projection or finger d upon the top portion of the side wall a of the casing when the cap or cover is set into position thereon. This notch or recess c^2 and projection d will operate to lock the cap or cover against a turning movement upon the end of the casing, a fixed position between the cap or cover and the casing being requisite during the operation of beating, inasmuch as said removable cap or cover carries a rotary gear mechanism, by which the inclosed beating devices are operated. The removable cap or cover C is also provided on its outer face with a main operating-gear E, mounted on a shaft f , which passes through said cap or cover and is adapted to turn therein. The cap or cover is also provided with a pinion G, mounted below the gear E and meshing therewith and provided with a boss g , which passes through the cap or cover and is adapted to turn therein, the said boss being provided at its inner end with a flange, which prevents the removal of the pinion from the cap or cover. The pinion G is also provided with a central bore or opening h , which passes therethrough and through the boss g , formed thereon, and which is rectangular or angular in cross-section. The bearing-bracket I is secured to the side wall or end a' of the casing at a point opposite the opening h , through which the boss of the pinion G passes.

J designates a rotary beater which is removable or detachable from its position in the casing and is carried upon a shaft K, which when the beater is set in operative position will have its inner end k inserted into the bearing-bracket I, while its outer end k' will project through the pinion-opening h , its outer end being of a rectangular or angular contour corresponding to said opening. The

beater J thus occupies a horizontal and transverse position at the bottom portion of the cylindrical casing, and it preferably comprises a central hub j , carrying radial end arms j' , between which are carried longitudinally-extending perforated blades j^2 .

Exteriorly upon the face of the cap or cover C and at opposite sides of the same are provided flanges, as shown at L, which are adapted to be grasped by the thumb and fingers to facilitate the convenient separation of the cap or cover from the casing.

From the foregoing description it will be understood that the device can assume either a horizontal or vertical position, that when in operative position as a beater the casing is mounted in vertical or upright position, that when used as a receptacle for the beaten eggs or other substance the casing can be set in horizontal position, that the cap or cover is separable or removable from the casing and carries the gear-operating mechanism, and that the beater is likewise separable and removable from the casing and detachable from the operating gear mechanism carried by the cap or cover. The parts may thus be readily disconnected or removed to facilitate the operation of the device in its divers offices and for purposes of cleaning, substitution, or repair.

It will also be noted that the outer end k' of the beater-shaft is provided with a circumferential flange, as shown at k^2 in Fig. 2, which will bear against the flange on the boss g of the pinion G to prevent the slipping of the beater-shaft longitudinally and the disconnection thereof from the support I.

The gear E is provided with an operating crank arm or handle E', by which it may be conveniently operated.

At the top of the cylindrical casing A is provided an opening m in the side or wall a , which opening is surrounded by a cylindrical projecting wall or flange m' , over which is adapted to fit a corresponding cylindrical flange n upon a cap-piece or cover N. This cap-piece or cover is retained in permanent connection with the casing by means of an approximately U-shaped loop O, projecting at the top of the casing and preferably formed of wire, which loop is engaged by an eye or opening p in a flange or projection P, projecting laterally from the portion n of the cap-piece and adapted to slide upon and in connection with said loop when the cap-piece is adjusted upon or removed from the flange m' of the opening m .

The operation and advantages of my invention will be readily understood. By means of the removable cap or main cover C and the top cap or cover N the casing may be entirely closed to operate effectively in upright posi-

tion as a beater. At the same time said top and side cap-pieces or covers N and C can be conveniently removed when desired to open up the casing or to permit of the entire detachment of all the operating devices therefrom, the removal of the main cover C being facilitated by the flanges L, which are provided upon the face thereof. After the operation of beating is completed and the top cap or cover N is in closed position the casing can then be turned into horizontal position, resting upon its side or end wall a' and with the removable cap or cover C at the top. The cover C can then be removed, carrying with it the operating-gear, and the beater will then be in detachable condition and can be readily withdrawn from the casing, whereby the latter will serve as a vessel for containing the beaten eggs or other substance. In readjusting the parts into operative position the beater is first set with the end k of its shaft bearing in the bracket I, and when the main cap or cover C is then placed upon the casing the outer end k' of the beater-shaft will slip through the opening in the gear G. The device will thus be in condition for operation as a beater, the eggs or other substance being fed through the top opening n .

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

The herein-described device for beating eggs and other articles, comprising a casing which is provided at one side with an opening through which the eggs or other articles are passed, said casing being open at one end and provided with a removable cap or cover, a gear-wheel mounted centrally of said removable cap or cover and provided with means whereby it may be rotated, said cap or cover being also provided with a pinion which operates in connection with said gear-wheel and which is provided with a boss which passes through said cap or cover and is adapted to turn therein, said pinion and boss being provided with a central angular bore, and a detachable beater-shaft, the inner end of which is provided with a bearing connected with the casing opposite the open end thereof, and the opposite end of which projects into the angular bore of the pinion and its boss, and is angular in form, said beater-shaft being provided with beaters, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 19th day of January, 1898.

CAMILLA JULIER.

Witnesses:

WM. P. BULYARD,
GUERNEY SAXON.