

No. 692,526.

Patented Feb. 4, 1902.

P. L. KIMBALL.
COVER FOR SEPARATOR BOWLS.

(Application filed May 14, 1901.)

(No Model.)

Fig. 1

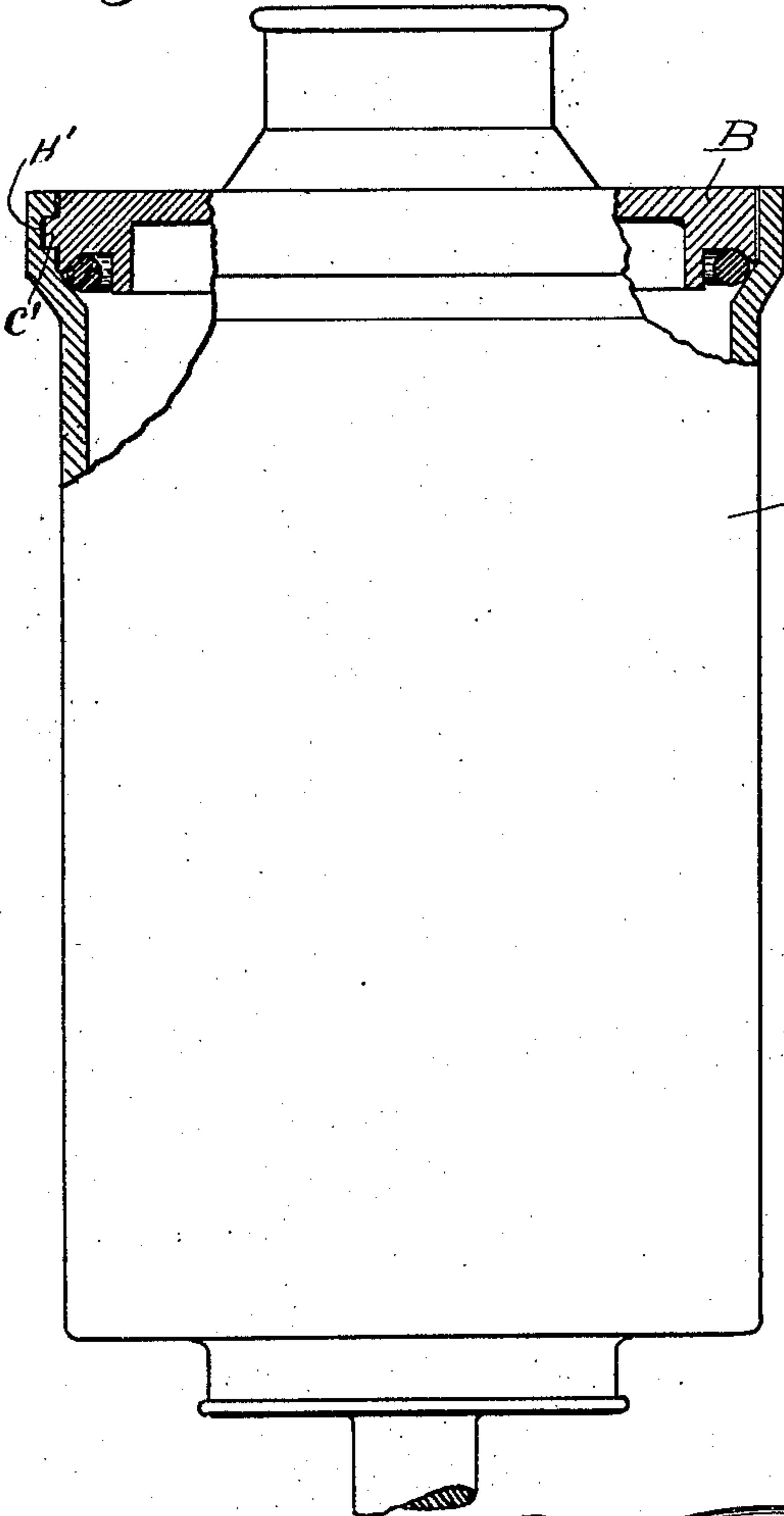


Fig. 2

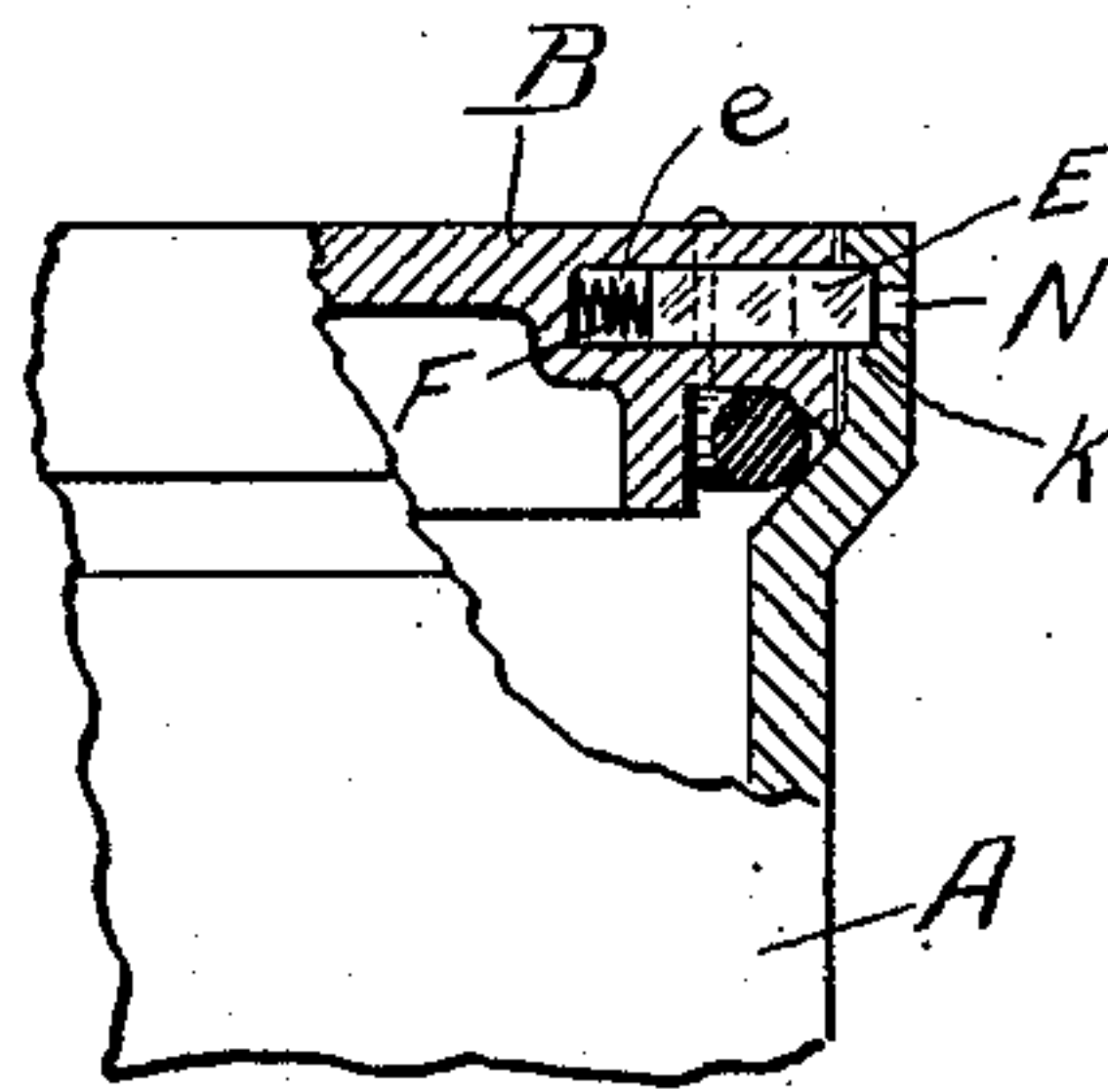


Fig. 4

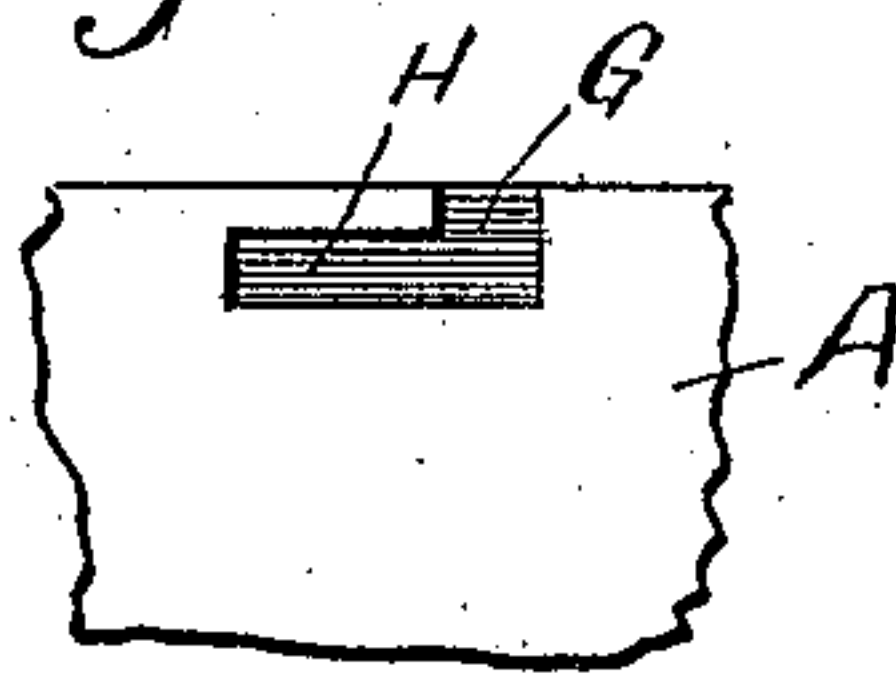
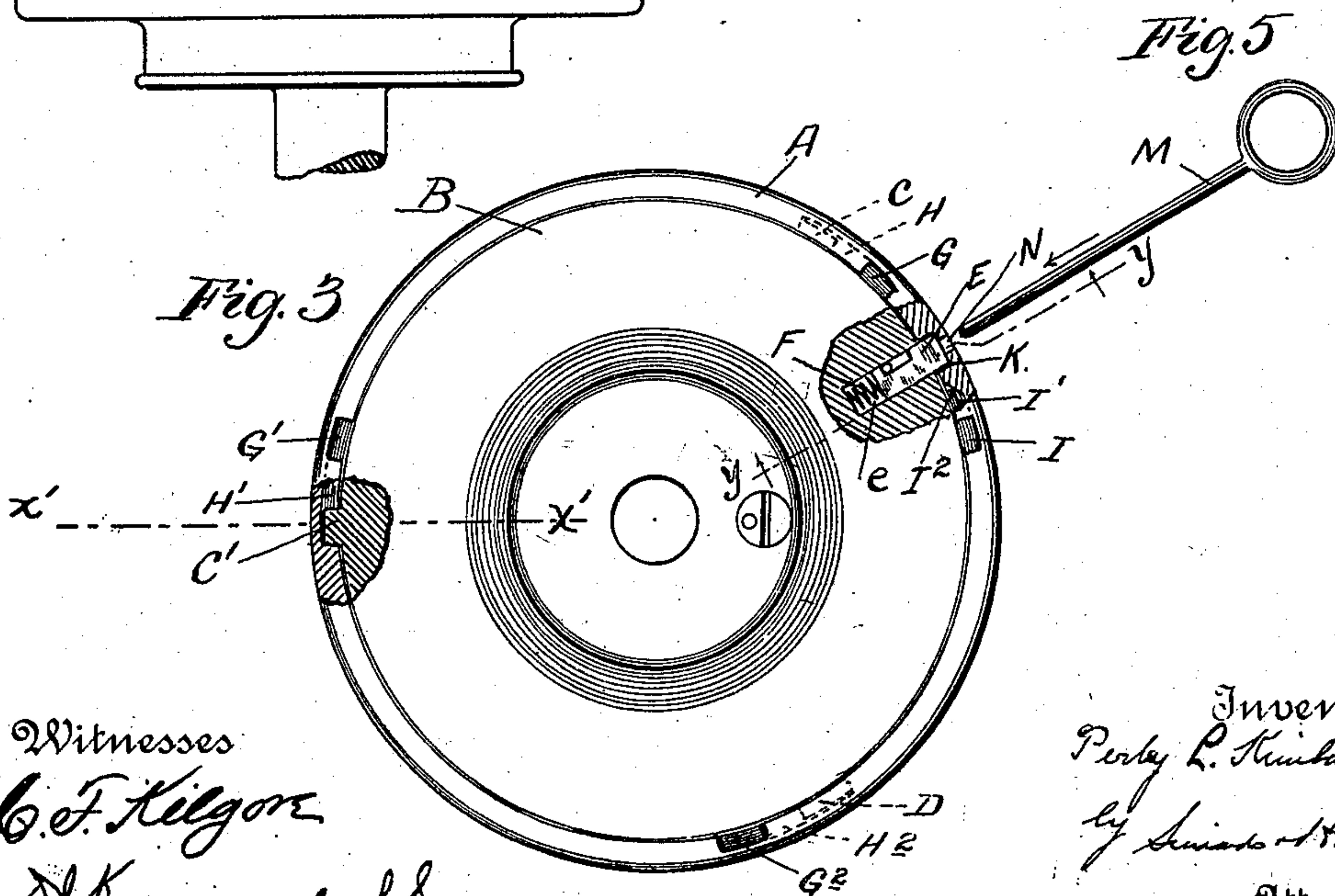


Fig. 3



Witnesses
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COVER FOR SEPARATOR-BOWLS.

SPECIFICATION forming part of Letters Patent No. 692,526, dated February 4, 1902.

Application filed May 14, 1901. Serial No. 60,234. (No model.)

To all whom it may concern:

Be it known that I, PERLEY L. KIMBALL, a citizen of the United States of America, residing at Bellows Falls, in the county of Windham and State of Vermont, have invented certain new and useful Improvements in Covers for Separator-Bowls, of which the following is a specification.

This invention has for its object to provide a novel construction of cover for separator-bowls and means for securing this cover in place.

Figure 1 is a sectional view of a separator-bowl and its cover embodying my invention on the line *xx* of Fig. 3. Fig. 2 is a sectional view of part of a separator-bowl and its cover on the line *yy* of Fig. 3. Fig. 3 is a plan view of the cover and bowl with parts broken away to show its construction. Fig. 4 is a detail sectional view of the bowl, showing the locking-slots. Fig. 5 is a view of the key for unlocking the cover.

Referring to the drawings, A denotes the separator-bowl, and B the cover.

C C' D denote the locking-lugs on the cover.

E denotes the locking pin or bolt, located in a recess *e* in the cover and projecting a short distance beyond the periphery thereof, and F denotes a spring bearing against the end of the pin *e* to force it out. The pin *e* is prevented from falling out of the recess by any well-known means.

G G' G² denote vertical slots in the interior of the upper end of the bowl connecting with the slots H H' H², which extend a short distance around the inner circumference of the bowl. The shape and position of one of these slots are shown clearly in Fig. 4.

I is a slot for the locking-pin which opens into the short circumferential slot I'.

One of the lugs, as D, is larger than the lugs C C', and one of the slots, as H, is larger than the other slots H H'.

To secure the cover in place, the lugs are fitted to their respective vertical slots and the locking-pin to its slot. The cover is then pushed down into place and turned, so that these lugs move into the circular slots, securely holding the cover against removal. As the cover is turned to move the lugs into

the circular slots the locking-pin rides up the incline end I² of the slot I' until it registers with the locking-socket K, when the spring F forces the pin into the said locking-socket, preventing any relative movement of the cover with respect to the bowl. By this means the cover is securely held in position. To remove the cover, it is only necessary to force the locking-pin back against the spring out of the locking-socket and turn the cover until the locking-lugs register with the vertical slots in the bowl and the pin with its vertical slot, when the cover may be easily taken off.

The means which I have devised for releasing the locking-pin from its locking-socket and which are shown in the drawings comprises a key M, which is adapted to be inserted into a hole N, communicating with the locking-socket. The locking-pin is forced out of the socket by this key and the cover turned until it ceases to register with the locking-socket.

It is evident that other means for unlocking the cover may be used other than herein shown and described without departing from the spirit of my invention.

It is clear that many modifications of this construction may be used without departing from the spirit of my invention, and I intend to include herein any and all such modifications.

I claim as my invention—

1. Means for securing a cover to a separator-bowl comprising coöperating lugs and slots in combination with a locking-pin located in one of the parts and adapted to move radially to enter a socket in the other part.

2. Means for securing a cover to a bowl comprising lugs of different sizes interengaging with suitable slots in combination with a radially-movable locking-pin located in one of the parts, and a coöperating recess in the other part.

3. In a locking device for the covers of separator-bowls, the combination with the bowl having slots formed on its interior and lugs on the cover adapted to move in said slots, of a spring-actuated locking-pin located in a recess in the cover and a socket for said pin formed in the bowl.

4. In a locking device for the covers of separator-bowls, the combination with the bowl having slots formed on its interior and lugs on the cover adapted to move in said slots, of
5 a spring-actuated locking-pin located in a recess in the cover and a socket for said pin formed in the bowl, and means for disengag- ing the locking-pin from its socket, substantially as described.

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