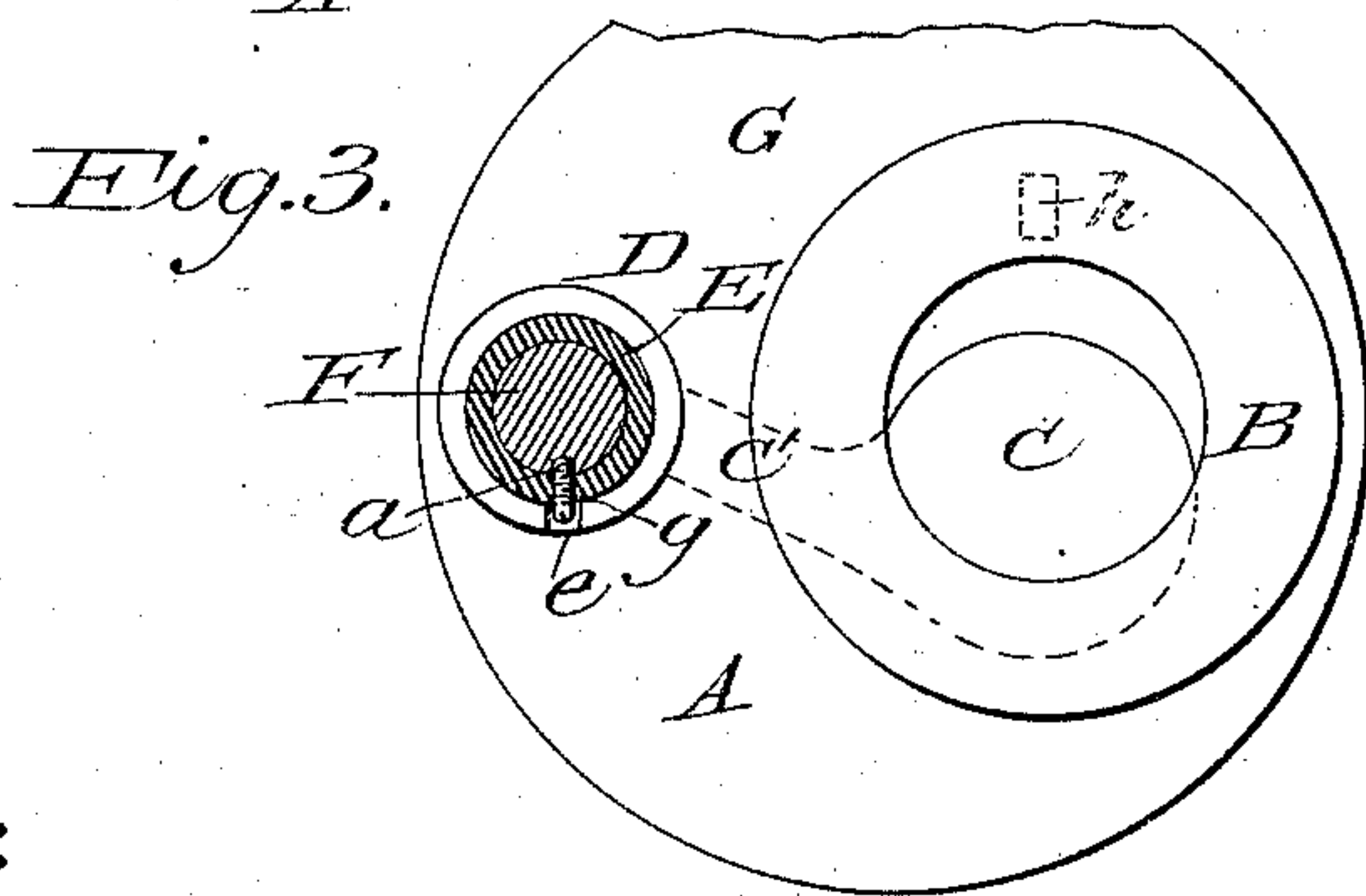
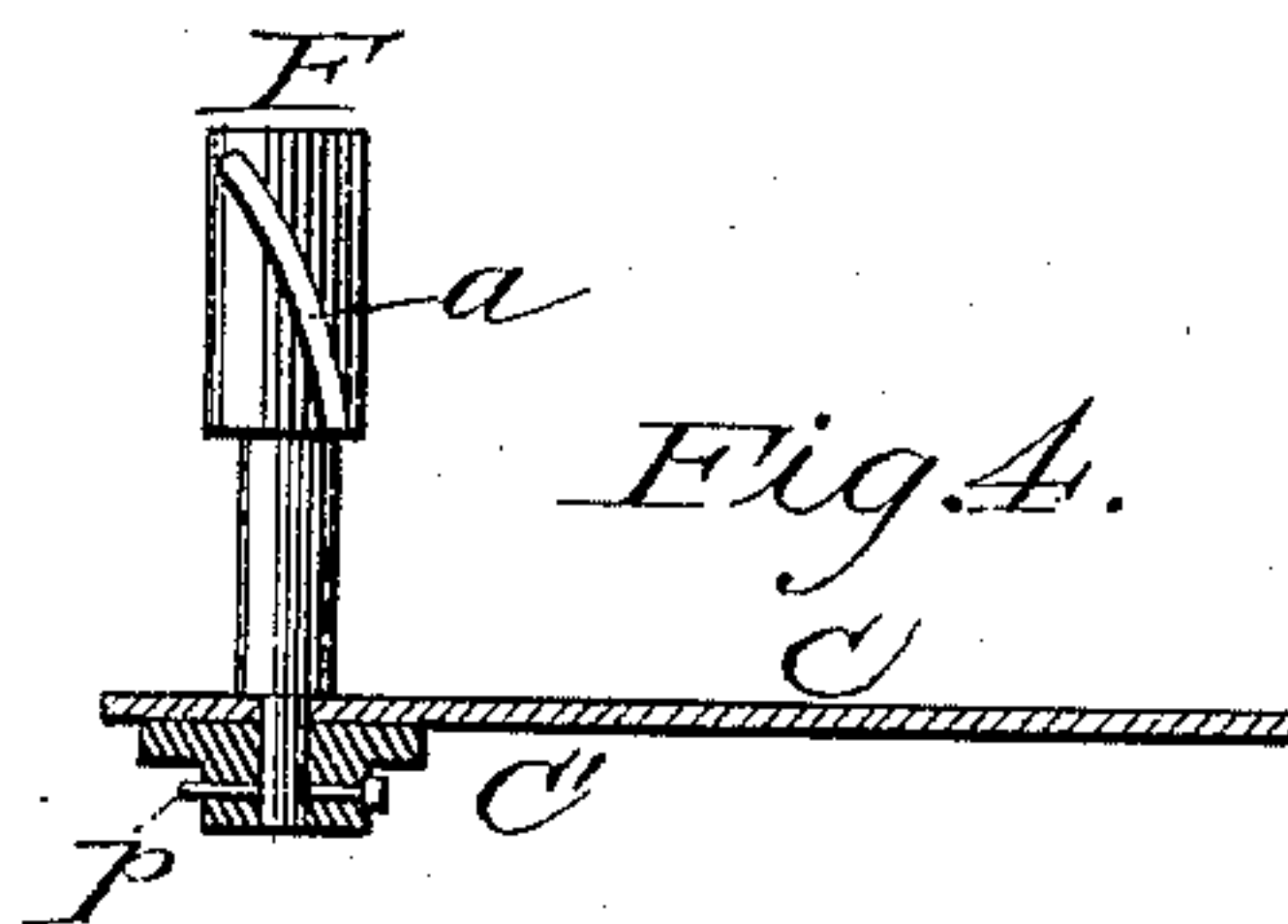
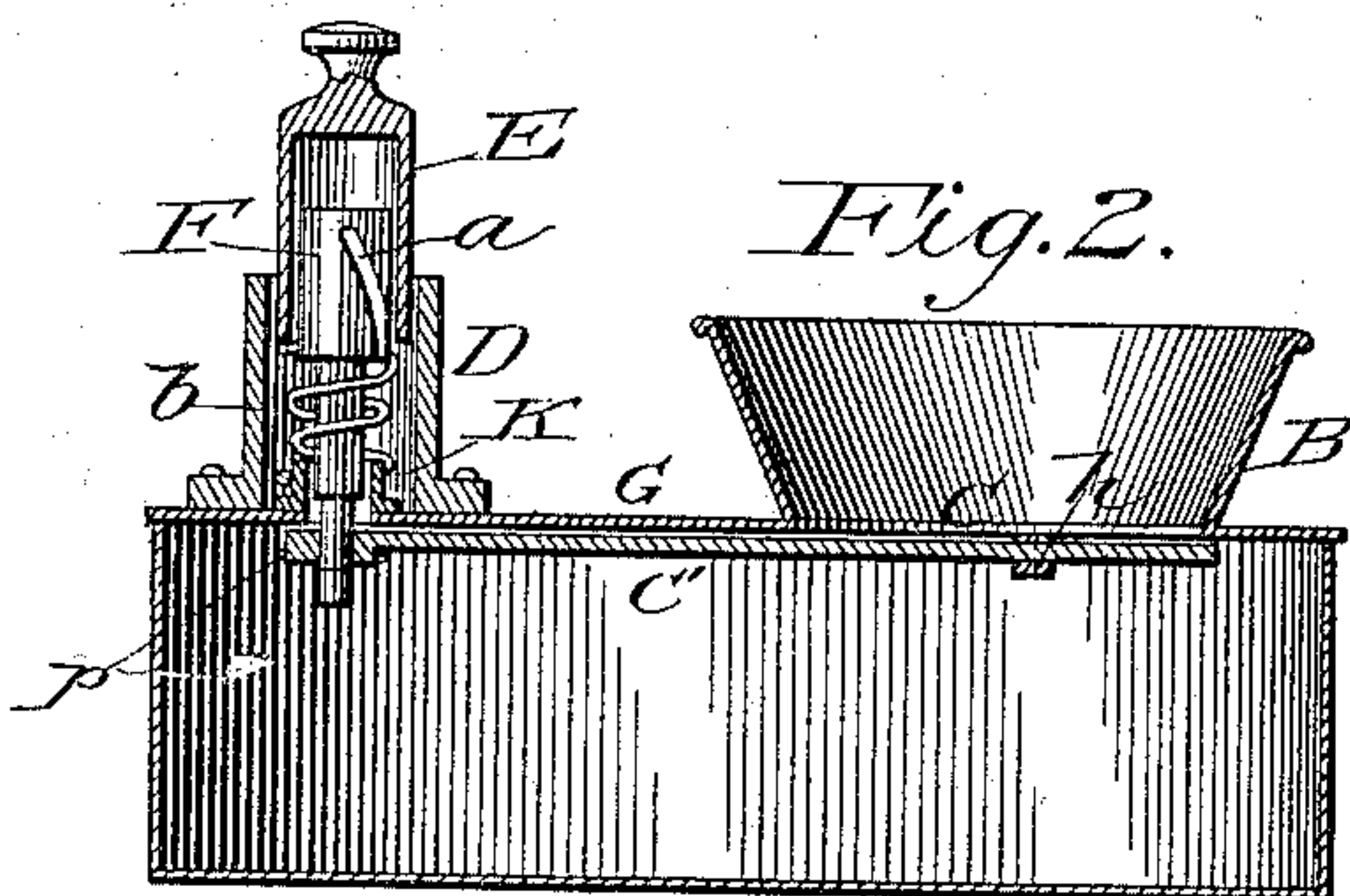
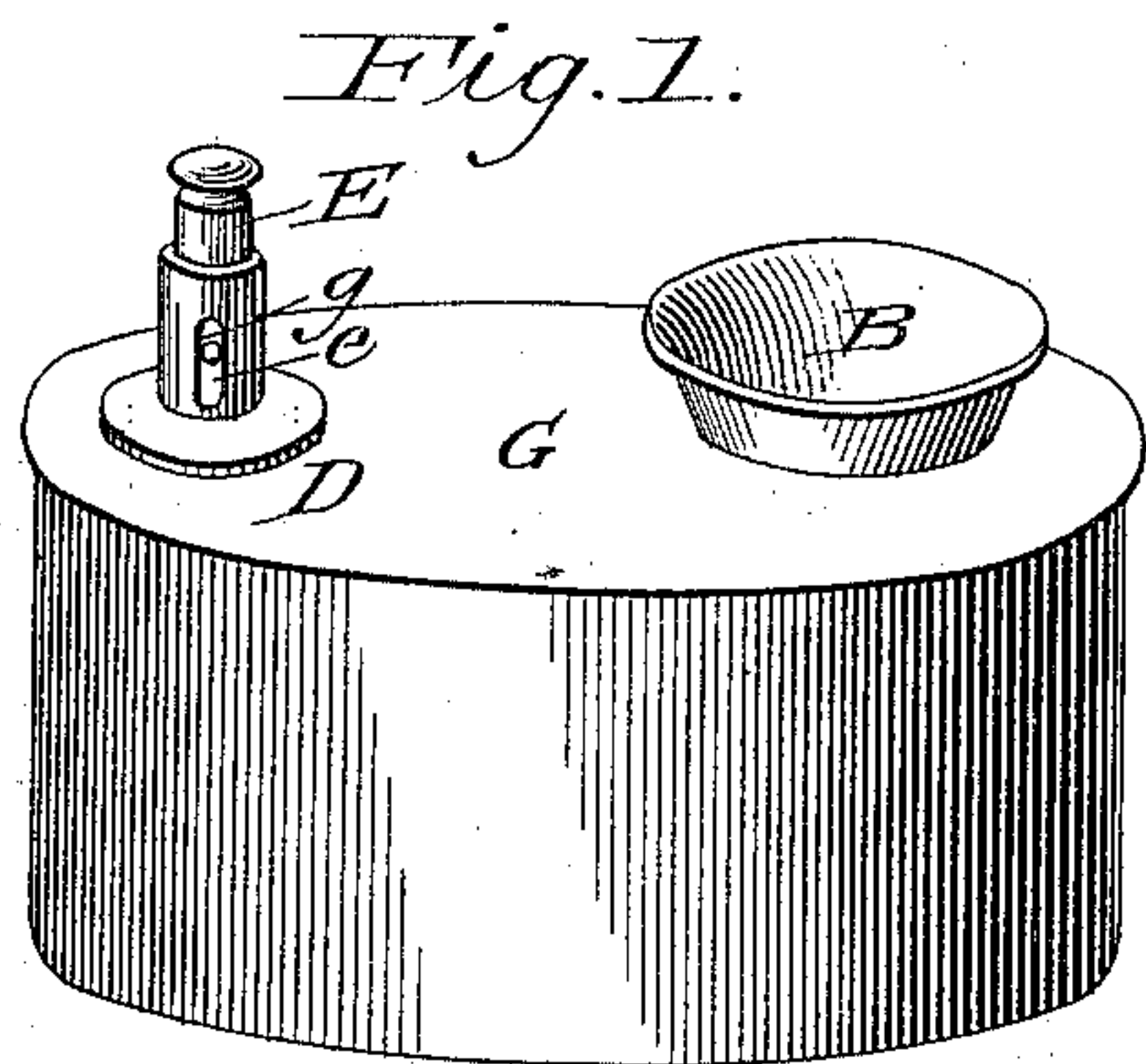


(No Model.)

C. STIERLE.
SANITARY CUSPIDOR.

No. 344,015.

Patented June 22, 1886.



Witnesses:

W. A. Walsh
W. Haupt

Inventor:

Chas. Stierle

by *Haupt Brothers*

ATTORNEY.

UNITED STATES PATENT OFFICE.

CHARLES STIERLE, OF ST. PAUL, MINNESOTA, ASSIGNOR OF ONE-HALF TO
GUSTAVE HEINEMANN, OF SAME PLACE.

SANITARY CUSPIDOR.

SPECIFICATION forming part of Letters Patent No. 344,015, dated June 22, 1886.

Application filed March 25, 1886. Serial No. 196,606. (No model.)

To all whom it may concern:

Be it known that I, CHARLES STIERLE, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Sanitary Cuspidor, of which the following is a specification.

My invention relates to improvements in cuspidors in which a movable cut-off or sliding door is arranged to be opened by depressing a knob and closed again by a spring, thereby cutting off all offensive odors arising from the expectorated matter of a patient or otherwise. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the complete cuspidor. Fig. 2 is a sectional view of the cuspidor. Fig. 3 is a plan of the cuspidor, showing the knob and socket shown in section. Fig. 4 is a view of the rotating pin and the cut-off.

Similar letters refer to similar parts throughout the several views.

Upon a body of a cuspidor, as A, I fit a cap, G, at a given point. I perforate this cap G, and fit to the orifice a funnel, B. Below this funnel, and closing the bottom of it, is a sliding cut-off, C, which cut-off when closed comes against the lug *h* on the under side of the cap G. The cut-off C has an extension, C', running outward toward the knob E. This extension is perforated, and is thickened up by a bushing. The perforation accommodates the pin on the end of the rotating pin F, being secured to the pin F by a pin, *p*, so that rotating the pin F slides the cut-off horizontally. Above the pin, fitting into cut-off, the pin F has a shaft, and above this a slot-bearing head having a slot, *a*. Upon the upper surface of the cap G, I fit a collar, D, having a flange to secure it to the cap G. In one side of this collar D, I make a vertical slot, *e*. Inside of the collar D is a second collar, K, which incloses the shaft of the pin F, on which it turns. Fitting closely within the collar D is the knob E, having a cylindrical shaft that fits over the slotted end of the pin F. On one side of the shaft of the knob E is secured

a screw, *g*, the point of which projects through the shaft of the knob E and fits in the slot *a* of the pin F, the outer head of the screw projecting through the slot in the collar D, the screw *g* being secured to the knob E, and sliding simultaneously in the slots *a* and *e*. Below the knob E and within the collar D is the spiral spring *b*, keeping the knob E raised to the top of the collar D.

Having thus described the parts of my invention, I now proceed to explain the operation of the mechanism, to wit: When the patient desires to expectorate, the knob E is depressed. The screw *g* being fixed to the shaft of the knob E, but moving in the slots *a* and *e*, the slot *e* prevents the knob E from turning sidewise, while the slot *a*, being spiral, causes the pin F to rotate, and this rotation of the pin F slides the cut-off C sidewise and opens the aperture in the funnel B. The spiral spring *b* by its recoil raises the knob, and this by the action of the screw *g* closes the orifice in the funnel B by replacing the cut-off C, stopping against the lug *h*.

I am aware that prior to my invention cuspidors having a funnel and sliding cut-off rotating about an axis, as in the case of the patent granted Holden, September 24, 1878, spittoon, No. 208,392, have been used, and I do not therefore claim cuspidors in the broad sense; but

What I do claim is—

1. In a cuspidor, the combination of the knob E, collar D, collar K, pin or screw *g*, combined with the pin F, slots *a* and *e*, the spring *b*, and cut-off C, all arranged and operating substantially as set forth.

2. As a new article of manufacture, a cuspidor consisting of a body, A, a cap, G, funnel B, lug *h*, combined with a cut-off, C, collar D, collar K, spiral spring *b*, slot *e* and slot *a*, screw *g*, pin F, and knob E, all arranged together and operating substantially as and for the purpose set forth and described.

CHAS. STIERLE.

In presence of—

H. HAUPT, Jr.,
R. A. WALSH.