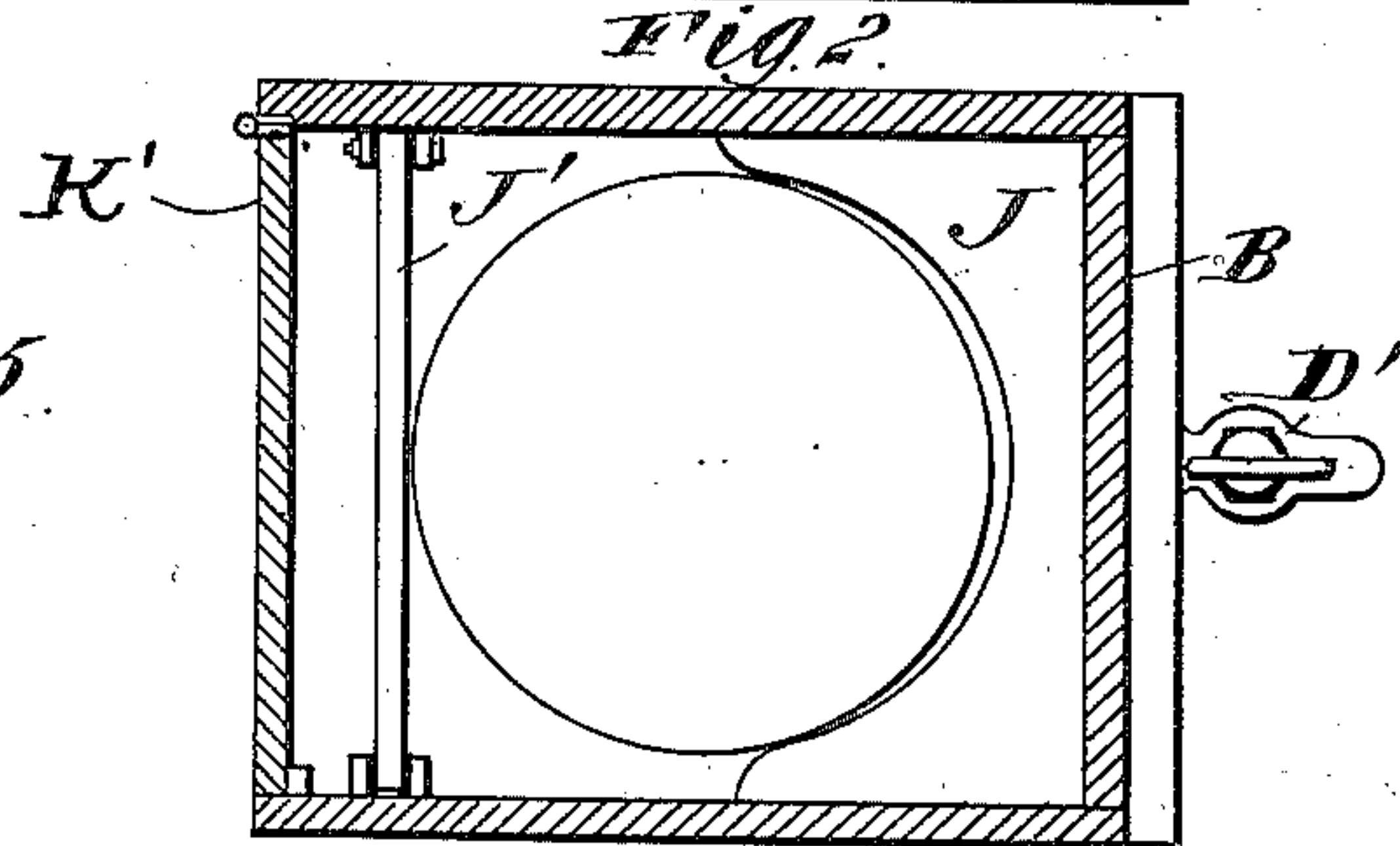
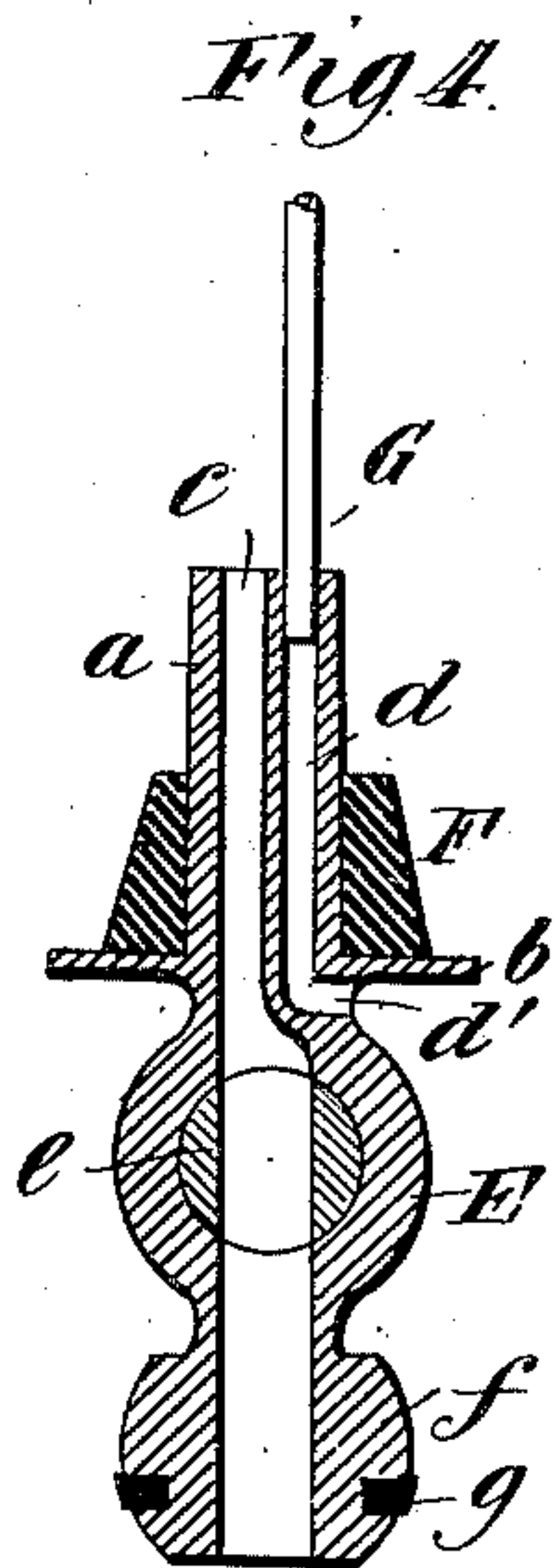
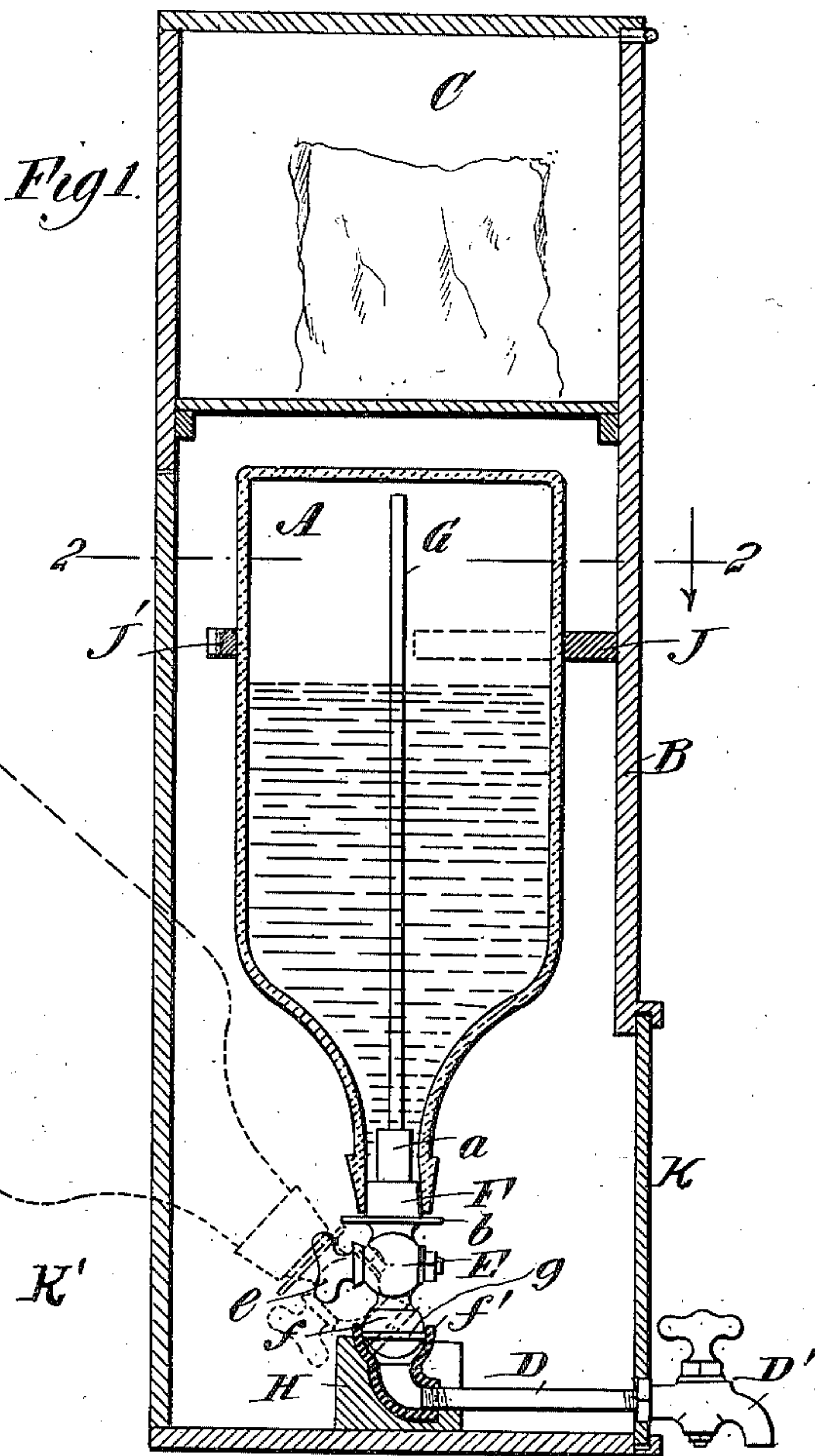
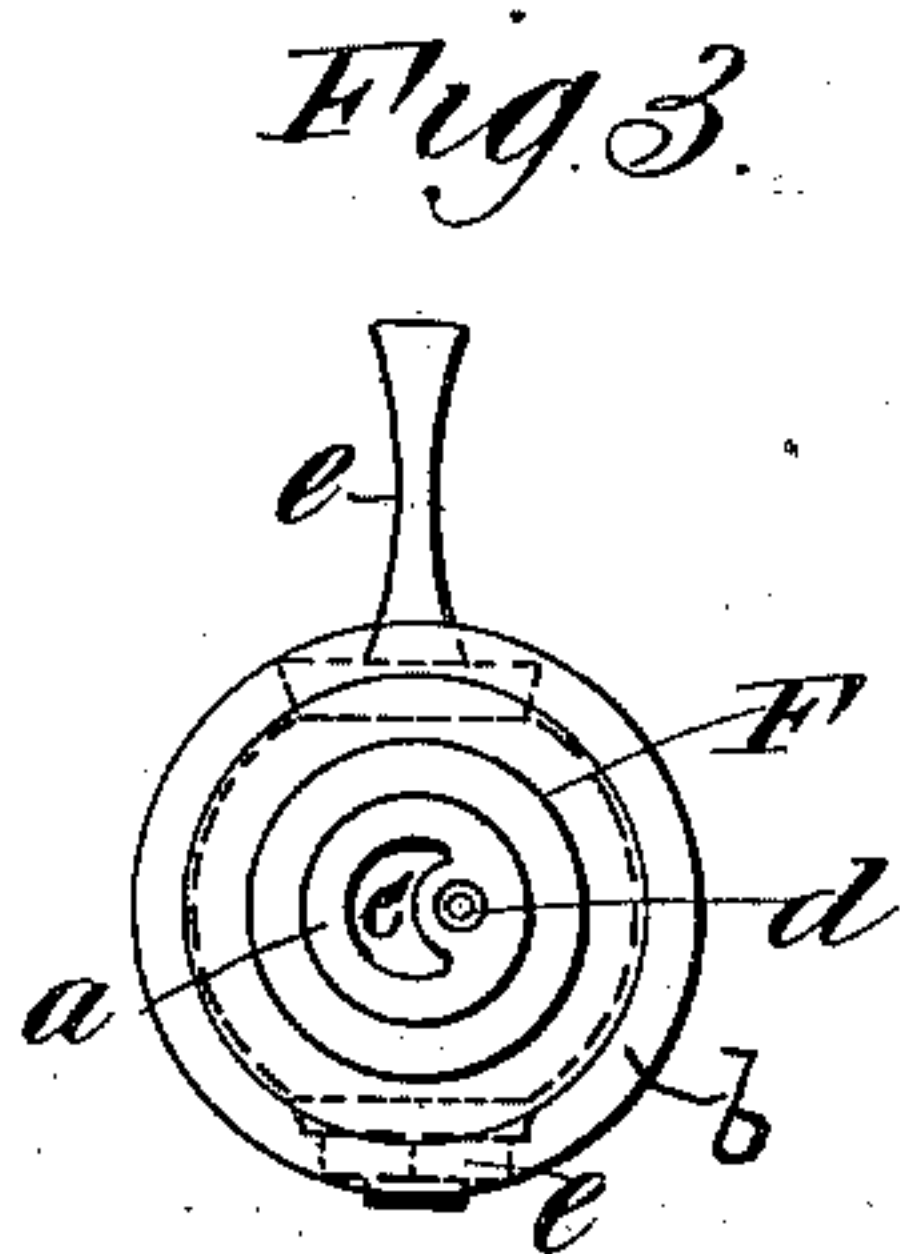


(No Model.)

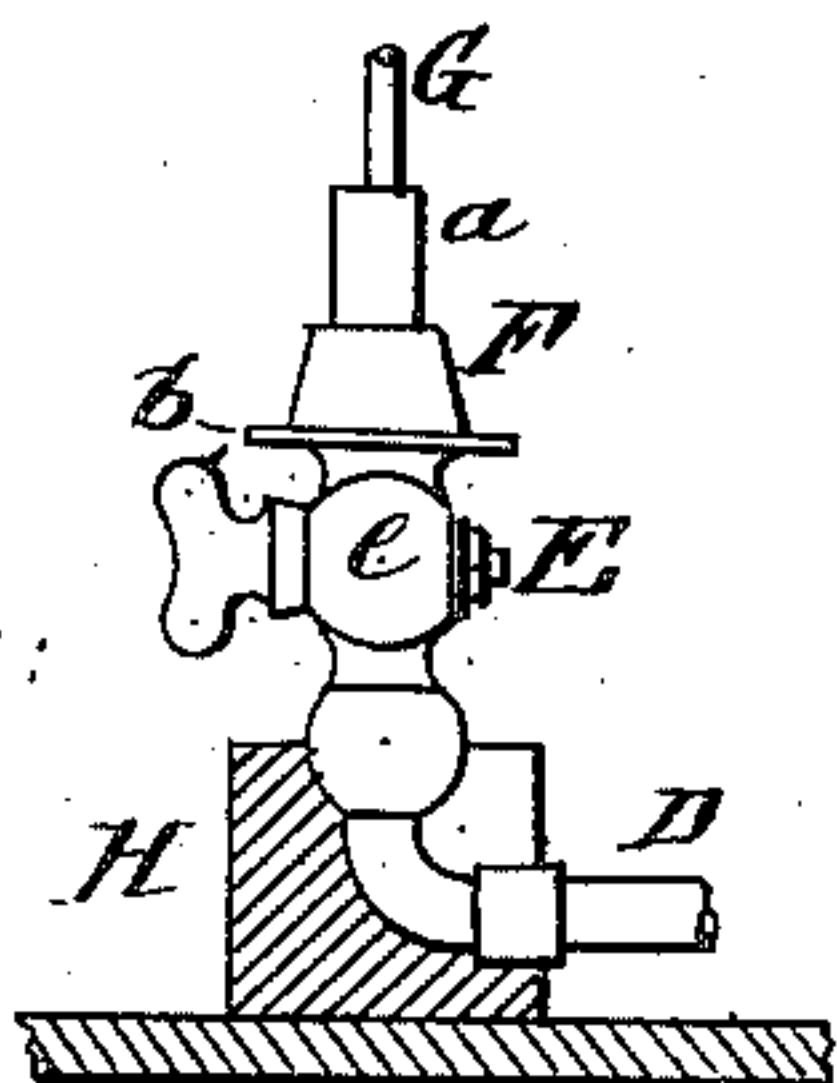
F. GUTTENBERG.
WATER COOLER.

No. 604,748.

Patented May 31, 1898.



WITNESSES:
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UNITED STATES PATENT OFFICE.

FREDERICK GUTTENBERG, OF BROOKLYN, NEW YORK.

WATER-COOLER.

SPECIFICATION forming part of Letters Patent No. 604,748, dated May 31, 1898.

Application filed April 26, 1897. Serial No. 633,981. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK GUTTENBERG, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Water-Coolers, of which the following is a specification.

The object of my invention is to provide means whereby hygienic or spring water in large receptacles or demijohns may be conveniently cooled in and dispensed from the same vessel in which it is delivered and in which it is bottled at the spring or place of supply, the construction being such that not more than ordinary diligence is required in the delivering and placing of each successive demijohn in the main cooling-chamber.

The invention consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

In the accompanying drawings, to which reference is made and which form a part of this specification, Figure 1 is a sectional elevation of my invention, showing a demijohn in place and partly emptied of its contents. Fig. 2 is a sectional plan view taken on line 2 2, Fig. 1. Fig. 3 is an end view of the cork or stopper section which enters the neck of the demijohn, the vent-tube being removed. Fig. 4 is a sectional elevation of the same, showing a portion of the vent-tube; and Fig. 5 is a detailed view of a modification.

A represents an inverted receptacle or demijohn for water, held in a main cooler B in a manner to have its contents cooled by ice in the ice-box C and to have its contents drawn off through a discharge or draw-off pipe D and cock D', which latter projects at the front sliding door K of the water-cooler, as shown.

The water-cooler is provided at its back with a door K', through which the demijohn is to be placed in the cooler and removed therefrom, as indicated in dotted lines in Fig. 1.

The discharge-pipe D is put in communication with the interior of the demijohn A by a hollow stopper and supporting-section E at right angles to D, which section, together with an annular cork F thereon, serves as a combined stopper and support for the demijohn and its contents, so that the weight of

the demijohn and contents will prevent leakage at the said cork. The portion *a* of the said section E which enters the neck of the demijohn is formed with an outer flange *b*, which supports the annular cork F, (preferably of india-rubber,) and also the neck of the demijohn, and this said portion *a* is formed with a main longitudinal water-passage *c* and also with an auxiliary vent or air passage *d*, which terminates at *d'* below the flange *b*, and to which said air-passage is connected a vent-tube G, which reaches to or nearly to the bottom of the demijohn A, as shown in Fig. 1, for admitting air above the water as the same is drawn off at the faucet D'. Below the flange *b* the section E is formed or provided with a cock *e*, and below this with a self-socketing hollow head *f* to enter a complementary socket *f'*, to which the discharge-pipe D is connected. The object of this construction is to enable the demijohn to be tipped to the position shown in dotted lines in the act of putting the demijohn in and removing it from the water-cooler. The preferred form of construction of the connecting parts is that of a sphere or portion of a sphere, the head or the socket, one or the other, being provided by preference with a packing-ring *g*, of india-rubber or other material, so that the weight of the demijohn and its contents will make a water-tight joint and prevent leakage.

The socket *f'* is fitted in a supporting block or pedestal H, placed in the main cooling-chamber B, as shown in Fig. 1.

The body of the demijohn is held in vertical position by a horizontal stanchion J and a swinging cross-bar J', as shown in Figs. 1 and 2, and the receptacle or demijohn, resting on the flat upper face of the flange *b*, automatically alines the section E and holds it central to load it supports.

In the modification shown in Fig. 5 the discharge-tube D is permanently connected to the parts which constitute the combined stopper and support for the neck of the demijohn, so that in tipping the demijohn in and out of place in the main cooling-chamber the tube D passes through the front and rear doors K K' of the main cooling-chamber.

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

A combined support and plug or stopper for the water-receptacle, consisting of a hollow section provided at one end with a vent-tube, a surrounding flange, an auxiliary vent-
5 passage opening below said flange, a central cock, and a spherical or rounded head provided with packing, in combination with a hollow complemental socket for said spher-

ical or rounded head and a draw-off pipe connected to said socket, substantially as described.

FRÉDERICK GUTTENBERG.

Witnesses:

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