

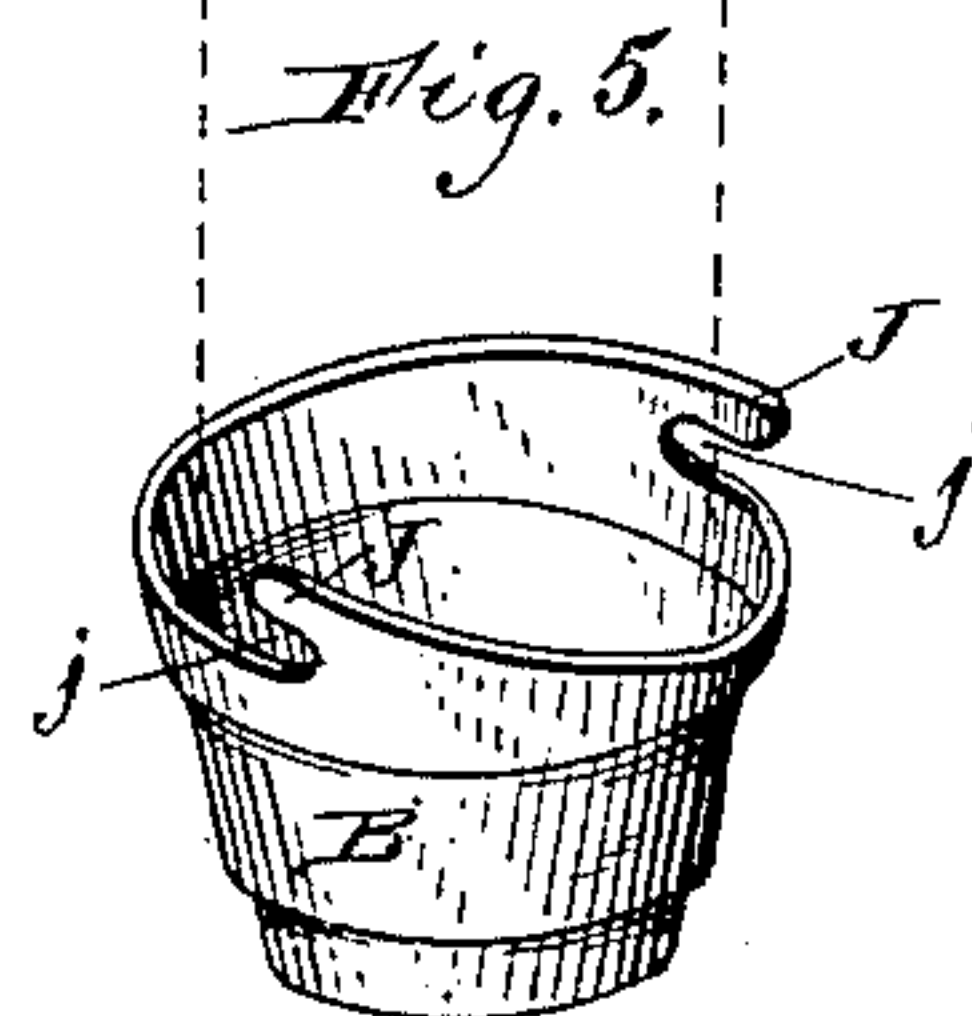
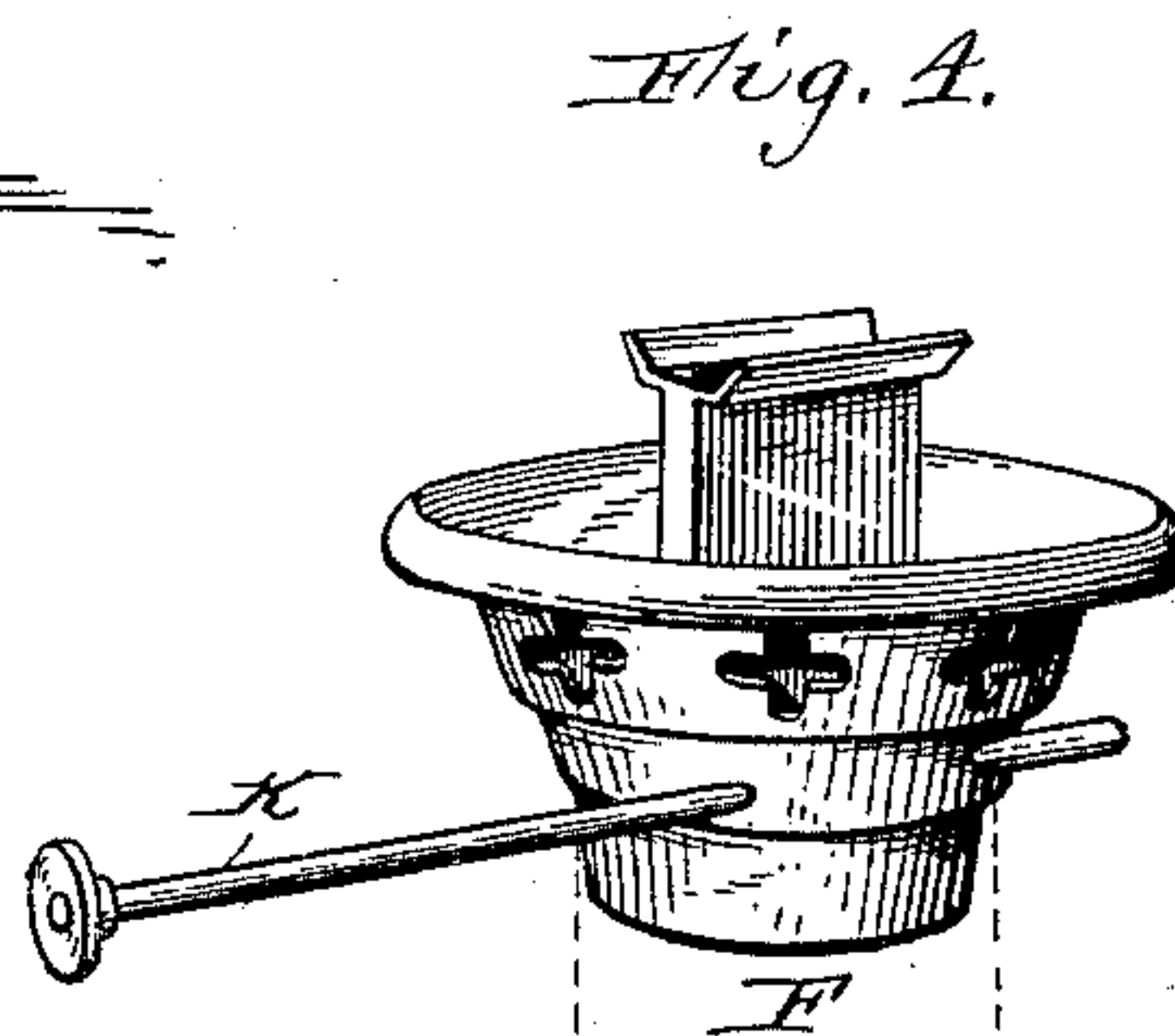
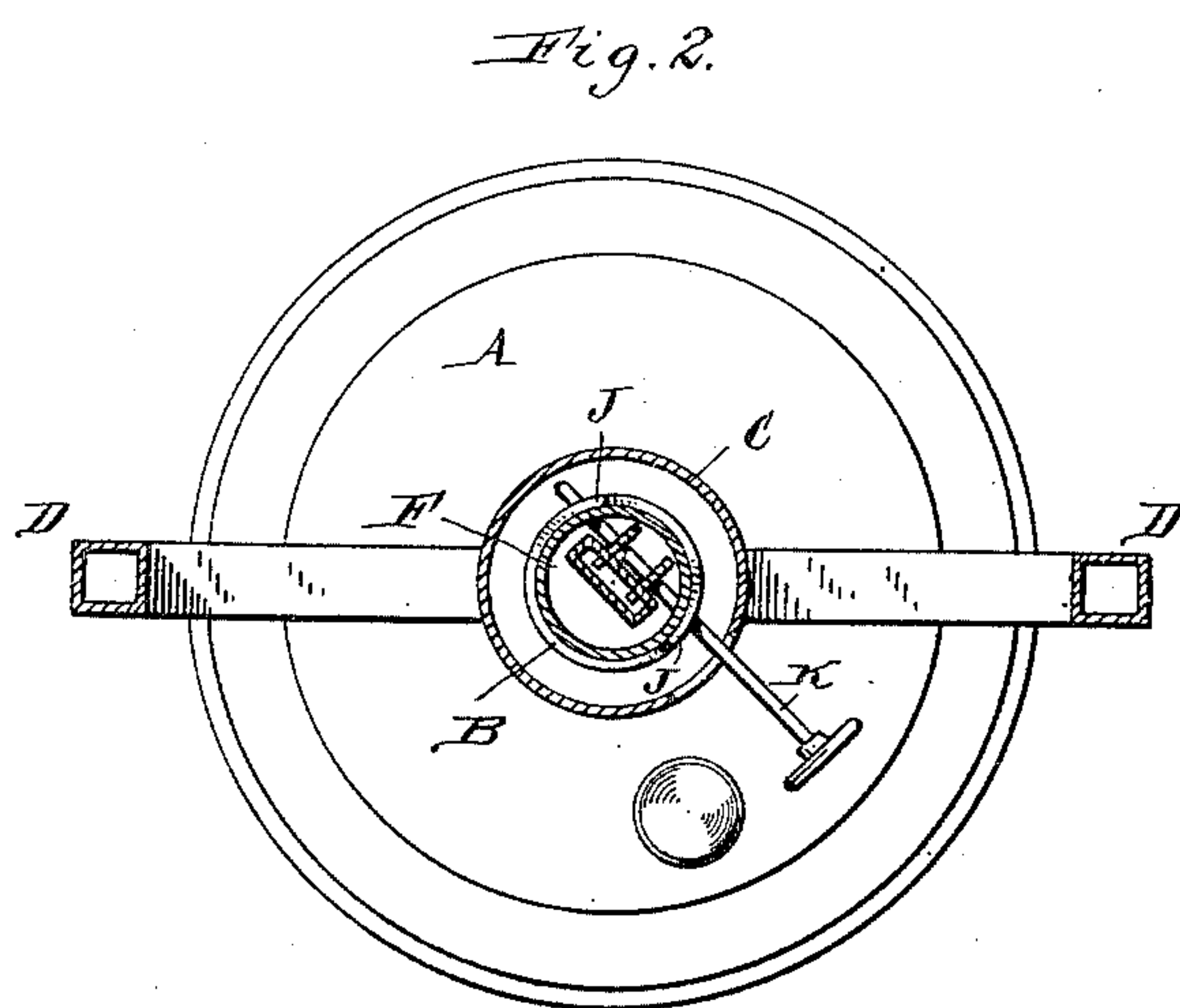
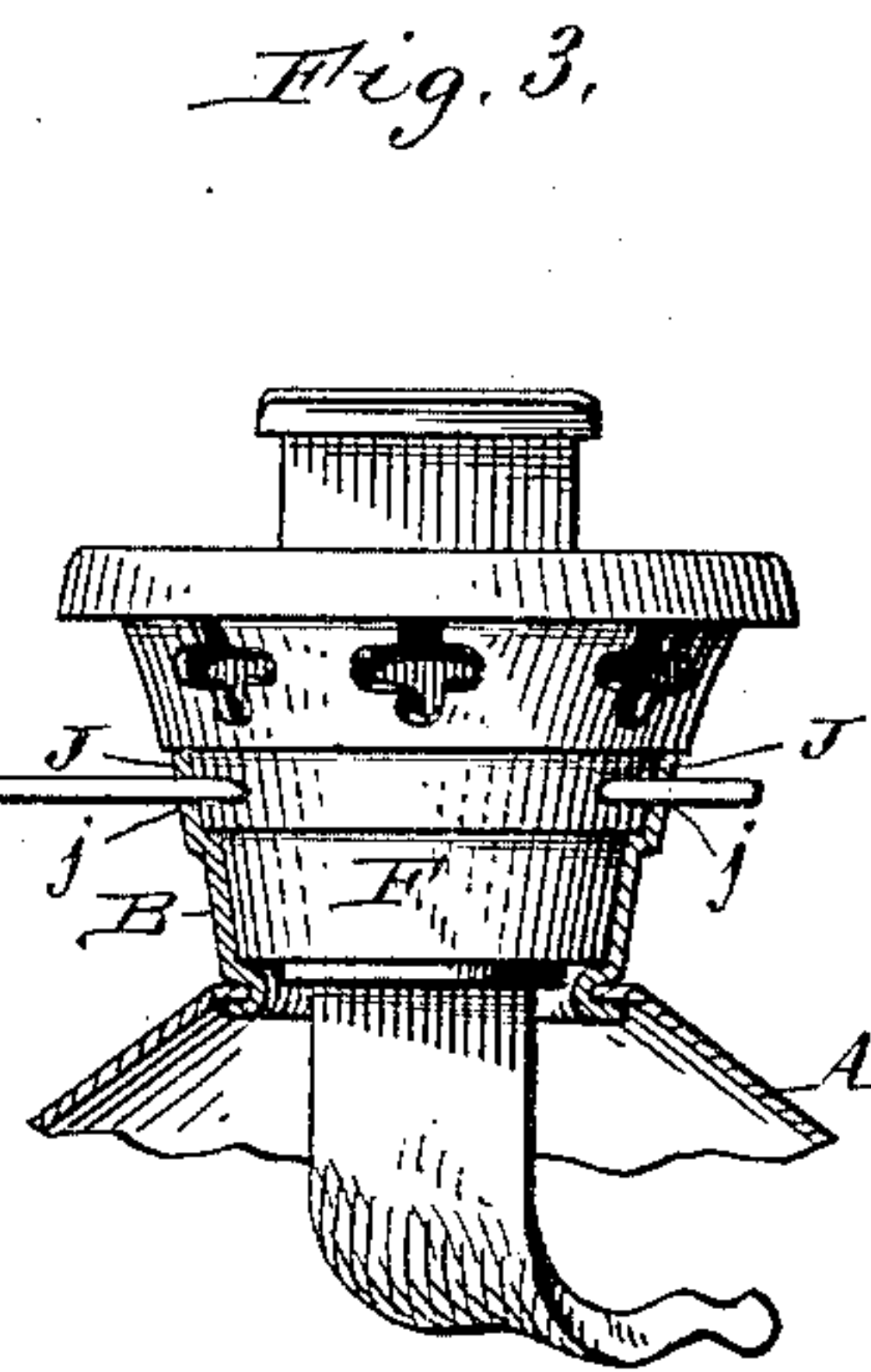
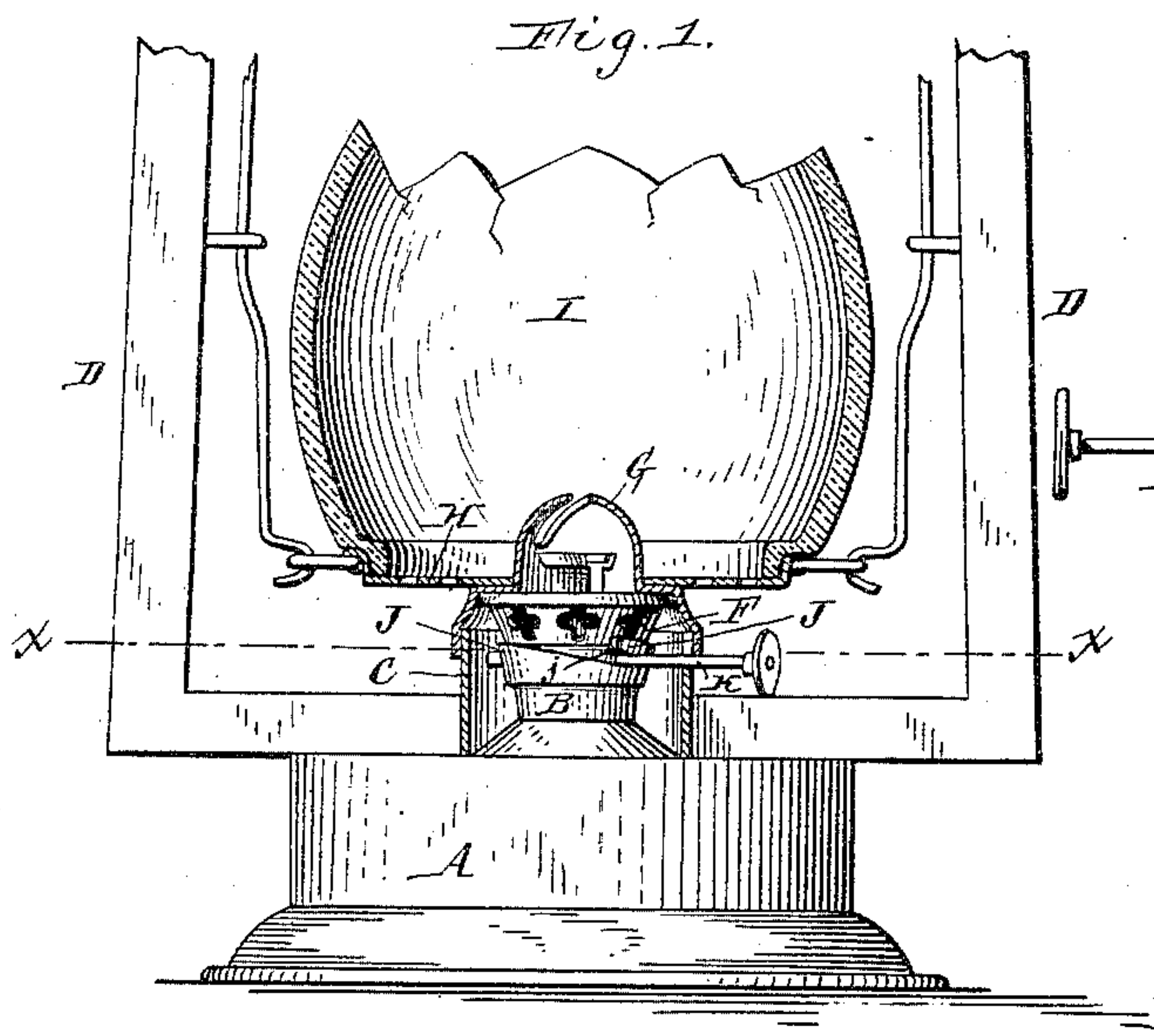
(No Model.)

F. DIETZ.

BURNER FASTENING FOR LAMPS AND LANTERNS.

No. 442,172.

Patented Dec. 9, 1890.



Witnesses:

Theo. L. Popp.
Jacob Nissenblatt.

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By Edward Wilhelm.
Attorney.

UNITED STATES PATENT OFFICE.

FREDERICK DIETZ, OF NEW YORK, N. Y., ASSIGNOR TO THE R. E. DIETZ COMPANY, OF SAME PLACE, AND THE STEAM GAUGE AND LANTERN COMPANY, OF SYRACUSE, NEW YORK.

BURNER-FASTENING FOR LAMPS AND LANTERNS.

SPECIFICATION forming part of Letters Patent No. 442,172, dated December 9, 1890.

Application filed March 22, 1890. Serial No. 344,975. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK DIETZ, a citizen of the United States, residing at New York, in the county and State of New York, have invented a new and useful Improvement in Burner-Fastenings for Lamps and Lanterns, of which the following is a specification.

This invention relates to that class of lamps and lantern-burners which are seated in slip-collars or unthreaded sockets in the top of the oil-pot, and has for its object to provide a simple and reliable fastening which can be cheaply produced and by which the burner is readily locked in the collar.

In the accompanying drawings, Figure 1 is a sectional elevation of the lower portion of a tubular lantern provided with my improved burner-fastening. Fig. 2 is a horizontal section in line $x x$, Fig. 1. Fig. 3 is an enlarged sectional elevation of the burner seated in the collar of the oil-pot. Figs. 4 and 5 are perspective views of the burner and the collar of the oil-pot, respectively, showing their relative position preparatory to seating the burner in the collar.

Like letters of reference refer to like parts in the several figures.

A represents the base or oil-pot of a tubular lantern, provided in its top with a slip-collar or unthreaded socket B.

C represents the annular air-chamber surrounding said collar, and D the air-tubes connected with said air-chamber.

F represents the burner, having its lower smooth or unthreaded portion constructed to fit snugly in the socket B.

G is the burner-cone, which is usually detachable from the burner, and H the perforated plate resting on the cone and supporting the globe I.

The slip-collar B is secured with its lower edge in the top opening of the oil-pot by a seam or by soldering, as may be preferred. The upper edge of the collar is provided on nearly diametrically-opposite sides with ears or lips J, which project over notches j , opening in opposite directions. These ears have the curvature of the adjacent cylindrical or slightly-conical top portion of the collar; or,

in other words, the notches and ears are formed on the cylindrical or slightly-conical wall of the collar and form the upper edge thereof. The upper edge of the collar is preferably inclined from the top of each ear to the bottom of the opposite notch, whereby inclined ways are formed on the top edge of the collar.

K represents the wick-raiser shaft or spindle, which extends through the burner on both sides and can be engaged under the ears J, thereby locking the burner in the collar.

When it is desired to secure the burner in the collar, the burner is placed in the collar with the spindle opposite the notches, and by giving the burner a short turn the ends of the spindle are engaged in the notches underneath the lugs, thereby locking the burner against vertical movement in the collar. The undersides of the locking-lips may be slightly inclined to give them a drawing or wedging action for seating the burner tightly in the socket.

The collar is preferably cut or stamped from a flat blank of suitable sheet metal, which is afterward drawn to shape in a suitable press. I prefer to employ scrap-tin for the purpose on account of its cheapness.

It is obvious that a single locking-lip may be employed; but I prefer to employ two lips on opposite sides of the burner, in order to prevent the burner from being tipped in seating it in the collar.

I claim as my invention—

The combination, with the oil-pot, of a burner-socket secured with its lower edge to the oil-pot and provided in its upper edge, on diametrically-opposite sides, with locking-lips opening in opposite directions and formed integral with the socket, and a burner provided with a wick-raiser shaft which engages under said locking-lips, substantially as set forth.

Witness my hand this 17th day of March, 1890.

FREDERICK DIETZ.

Witnesses:

JOHN H. KUHLE,
FRED. VAN DUYN.