

(No Model.)

2 Sheets—Sheet 1.

J. A. COULTAUS.

LAMP BURNER.

No. 336,297.

Patented Feb. 16, 1886.

Fig. 1.

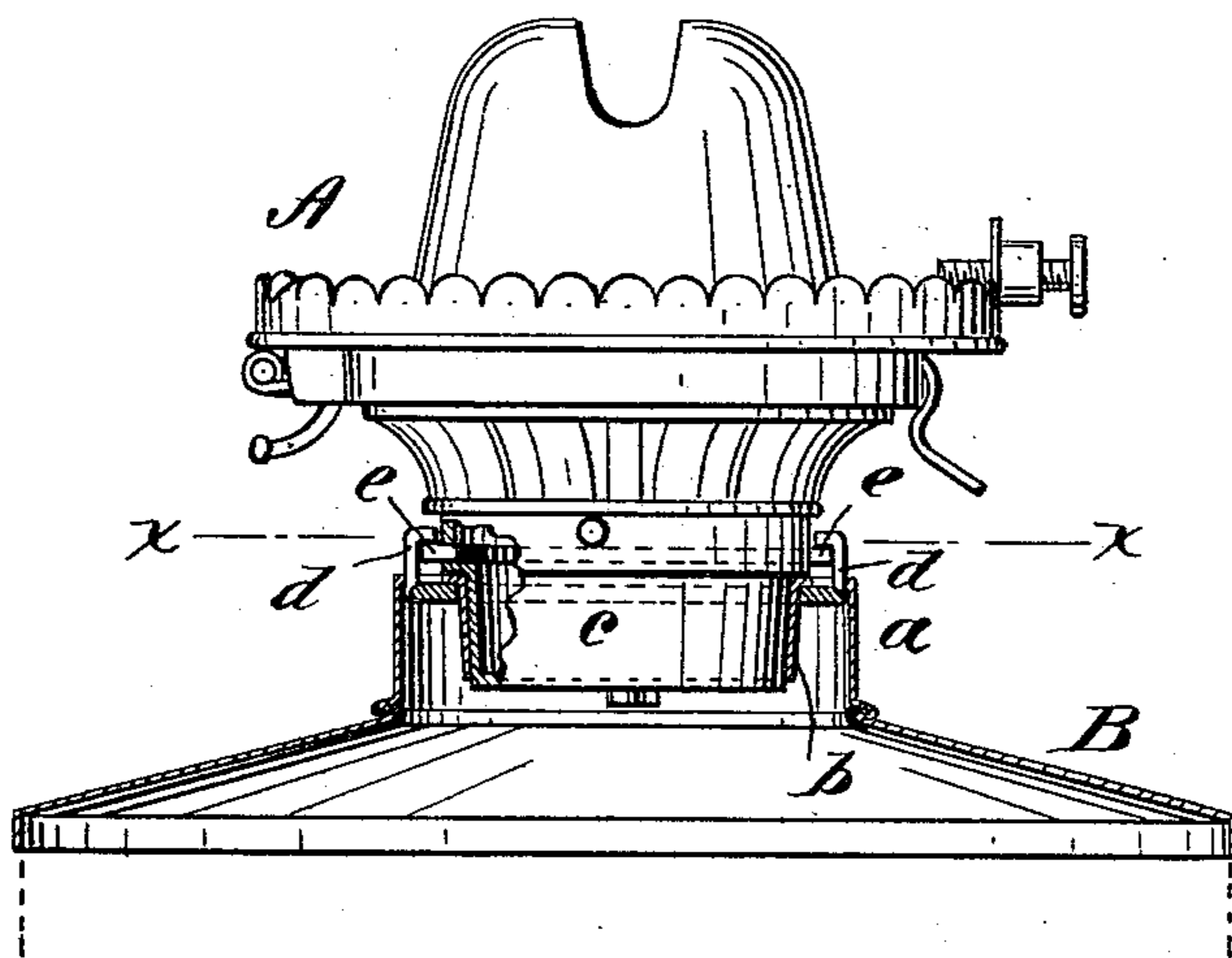


Fig. 3.

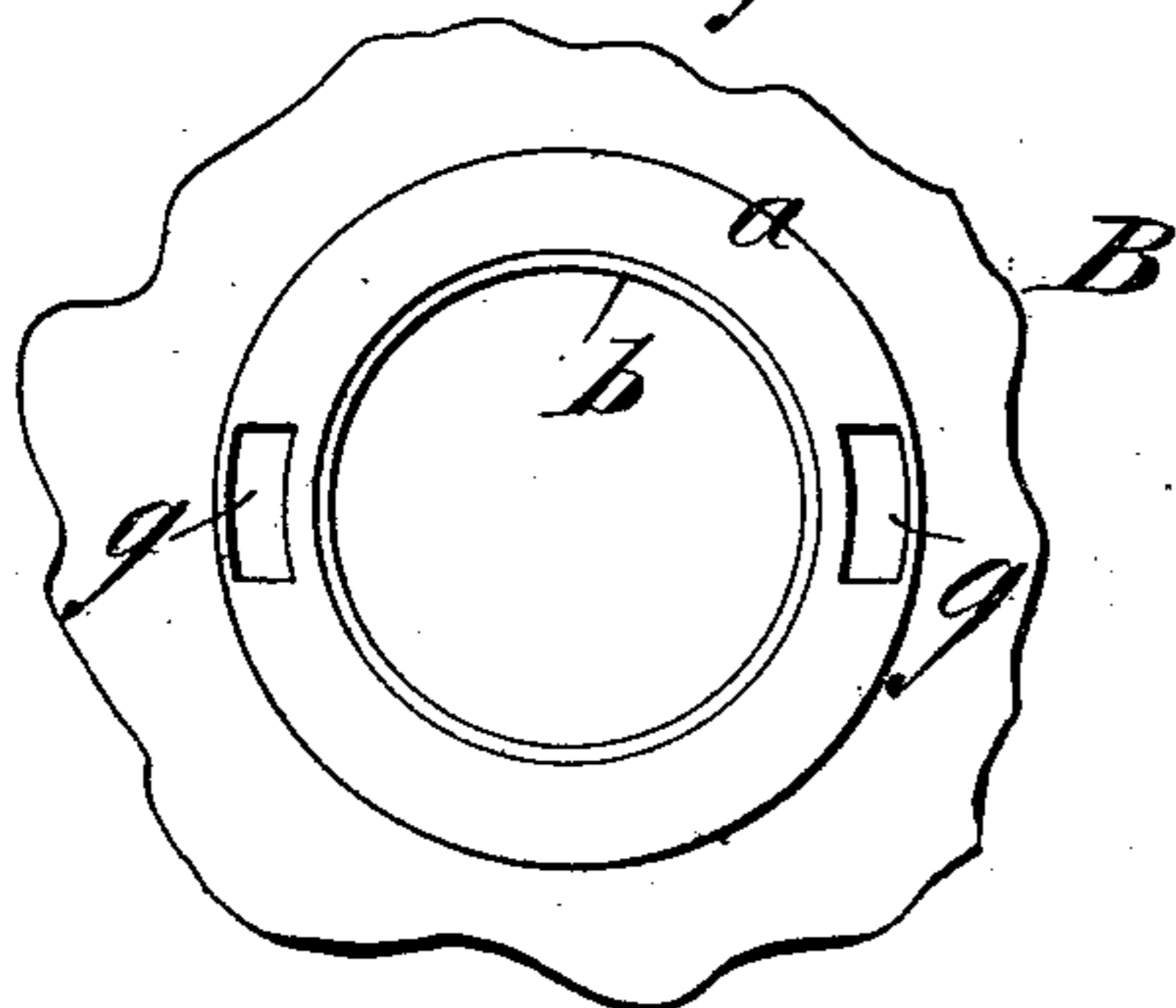


Fig. 2.

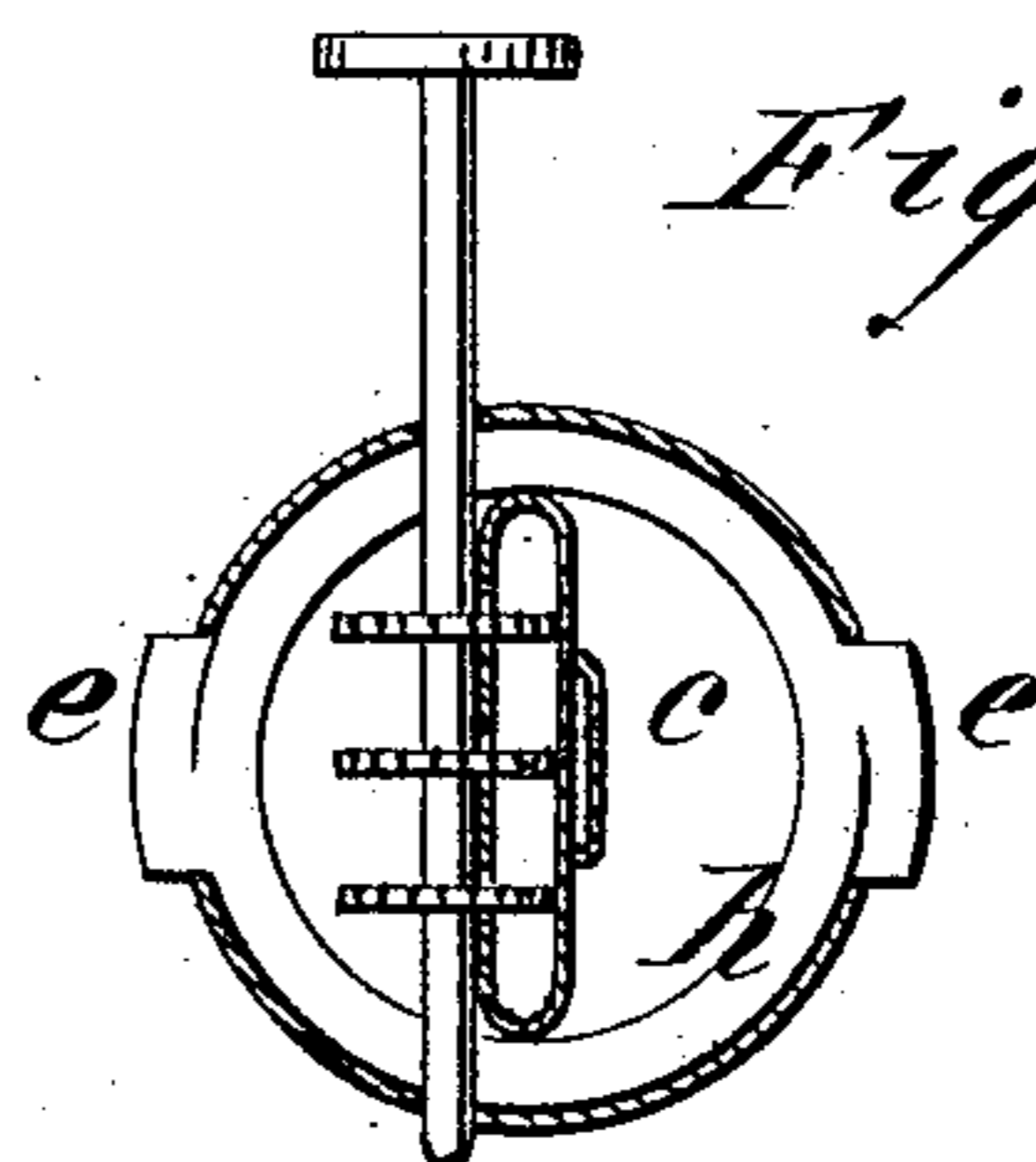


Fig. 4.

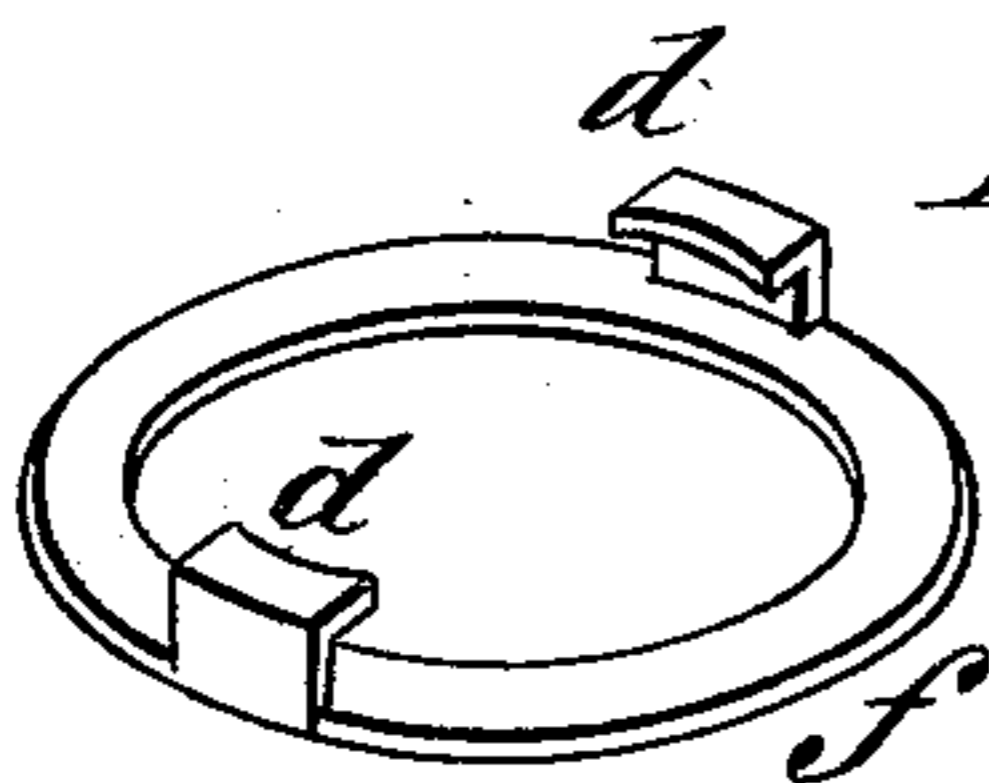
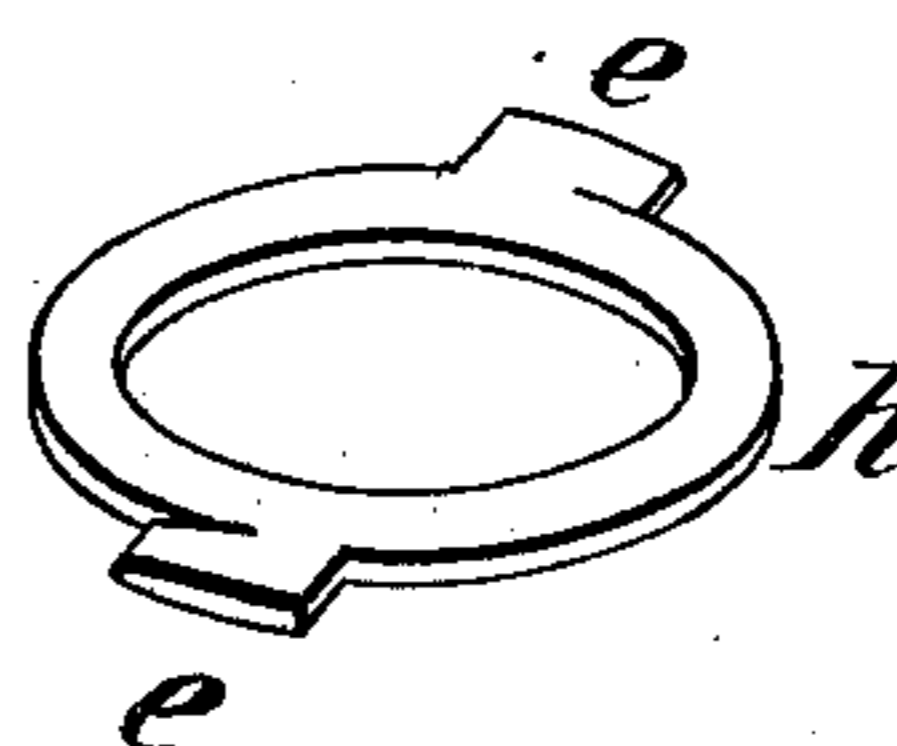


Fig. 5.



WITNESSES:

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C. Sedgwick

INVENTOR:

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BY *Munn & Co.*
ATTORNEYS.

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Fig. 6.

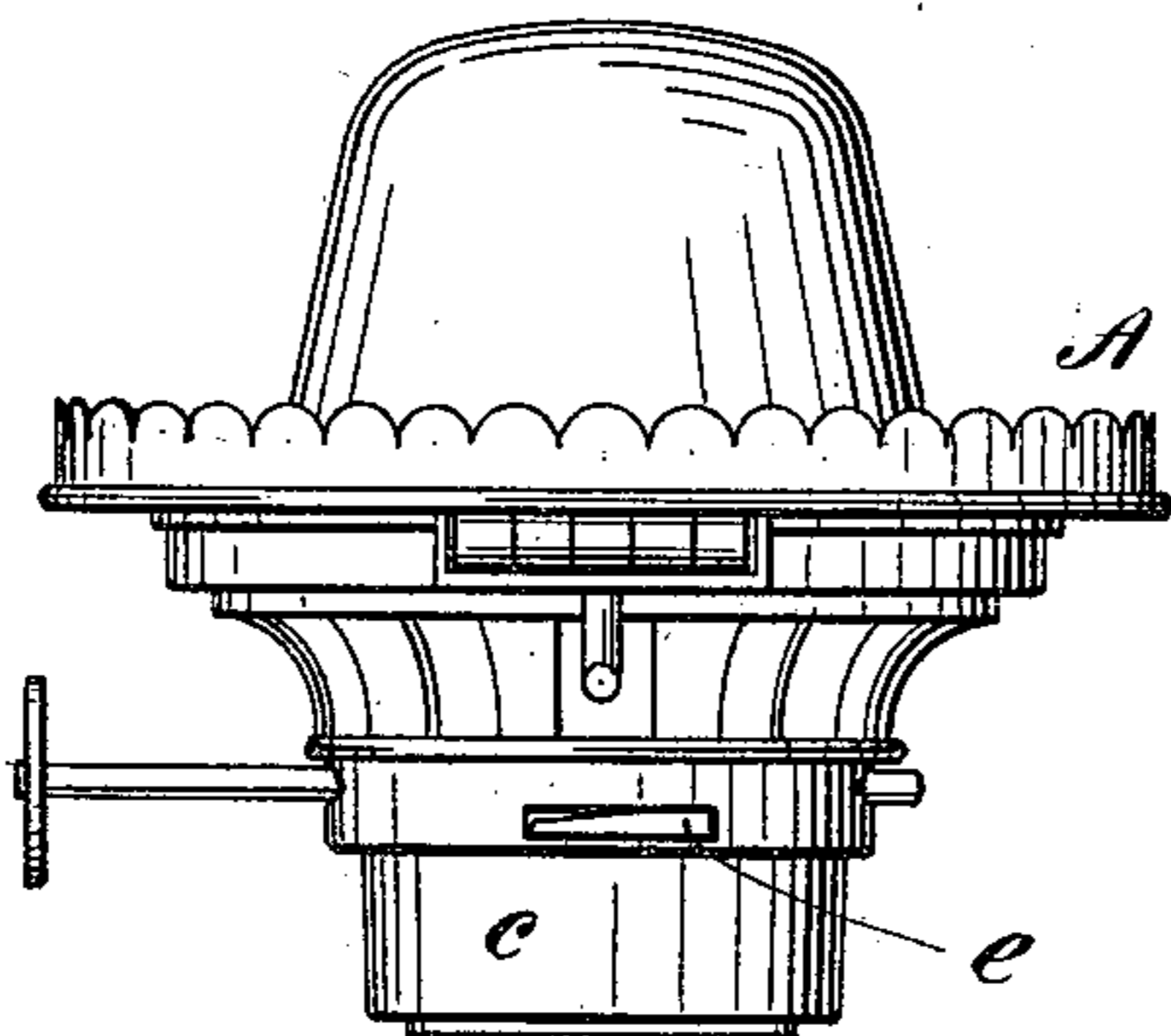
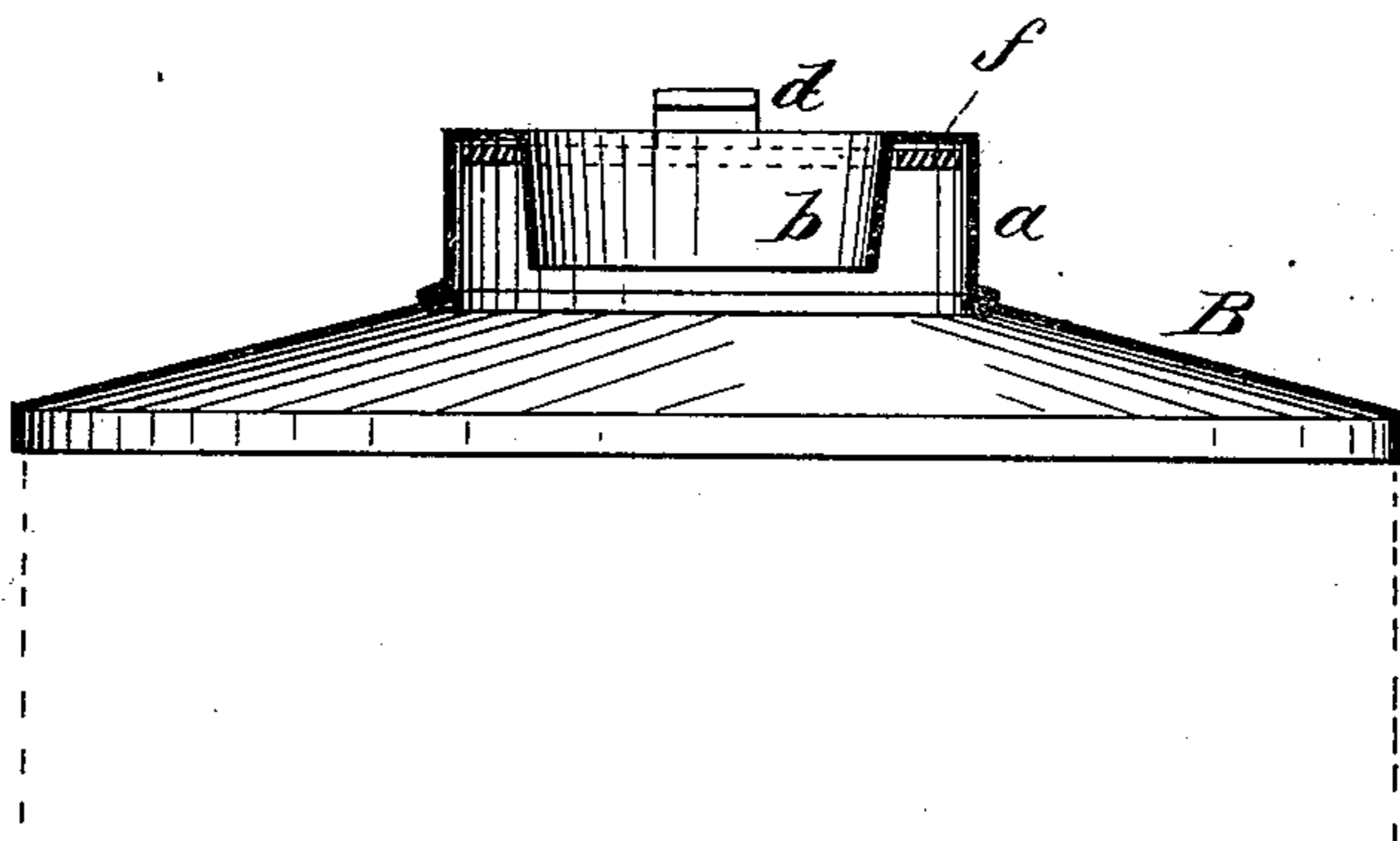


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOSEPH A. COULTAUS, OF BROOKLYN, NEW YORK.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 336,297, dated February 16, 1886.

Application filed July 10, 1884. Serial No. 137,314. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. COULTAUS, of the city of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Lamp-Burners, of which the following is a full, clear, and exact description.

My invention relates to a lamp-burner having a cylindrical tapered neck, a fountain-cap having an inverted conical seat therefor, differing slightly in diameter from the diameter of the neck of the burner, and wedge-shaped projections extending from an independent ring placed within the burner and taking into hooked-shaped catches projecting from the fountain-cap, as hereinafter described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a vertical central section of the fountain-cap of a lamp and side elevation of the burner with a portion of one side of the neck thereof broken away to show the form of construction of the several parts; Fig. 2, a cross-section of Fig. 1 through the line *xx*; Fig. 3, a plan of a part of the fountain-cap, showing a top view of the annular collar and the hooked-shaped catches projecting through the upper side from a recess therein; Fig. 4, a perspective view of the independent ring with its hooked-shaped catches formed thereon detached from the collar of the fountain-cap; Fig. 5, a perspective view of the independent ring with its wedges detached from the neck of the burner; Fig. 6, a side elevation of the burner, showing one of the wedges of the independent ring therein projecting through the side thereof directly above the tapering neck from an enlarged chamber; Fig. 7, a vertical section of the fountain-cap detached, showing the vertical collar and the inwardly return tapering seat forming part thereof to receive and support the neck of the burner, and the independent ring within a recess in said collar with hook-catch in elevation.

A in the accompanying drawings represents a burner for a lamp of the usual construction, with the exception of the neck *c* thereof, which is tapering from the shoulder of a chamber within which the mechanism to

raise and lower the wick is arranged. Within the cylindrical neck *c* is placed an independent ring, *h*, having wedges *e* thereon projecting through the sides of the neck, and of such shape as to draw the neck downward into its seat in the manner and for the purpose hereinafter more fully described. This independent ring *h* serves also to materially stiffen the chamber or enlarged part of the neck of the burner, and serves also as a seat upon which the rod of the mechanism for raising and lowering the wick may rest and revolve.

B represents the fountain-cap of a lamp, from the center of which projects an annular collar, *a*, of sufficient height and diameter to form therein a return tapered seat, *b*, to receive and hold the tapered neck *c* of the burner A, and in forming the collar *a* and tapered return-seat *b* therein an annular recess is also formed to receive the independent ring *f*, with hooked catches *d* thereon, projecting upwardly and inwardly therefrom, as shown in Figs. 1 and 4.

In the recess formed by the annular collar *a* and return tapering seat *b* of the fountain-cap B rectangular openings *g* are made, through which the hooked-shaped catches *d* may pass, as shown in detached view, Fig. 3. In detached view, Fig. 4, the hooked catches *dd*, for convenience, are punched from the same piece of metal and turned upwardly and inwardly, as represented.

Fig. 5 represents a view in perspective of the ring *h*, detached from the burner, showing the wedges *e* thereon extending outwardly to wedge the cone *c* downwardly into its seat *b* by taking into the inwardly-projecting hooks *d* on the ring *f*.

In assembling the several parts composing the top A of the burner the ring *h* is placed within the enlarged part or chamber thereof and directly above the tapered neck *c*, its wedge projections *e* passing through the sides thereof outwardly sufficient to engage beneath the hooked catches *d*, as shown in Fig. 1, the outer edge of the ring fitting closely the interior surface of the chamber above the neck *c*. The fountain-cap B, of any desired form, being provided with its annular collar *a* and inwardly return tapered seat *b*, receives the independent ring *f* in its recess, and resting against the inner upper surface thereof. The hooked catches *d* extend upward and through

the openings *g* to receive the wedges *e*, as shown in Fig. 1. To hold this ring *f* firmly within the recess in the collar, it may soldered thereto or the metal from the sides of the collar set down over its lower edge.

The diameter of the tapered neck *c* is slightly larger than the diameter of the tapered seat *b*, so that as the wedges *e* of the neck *c* are turned beneath the hooked part of the catches *d* the neck will be drawn down into its seat, fitting snugly therein and forming a perfectly tight joint to prevent leakage or the escape of oil by capillary attraction or by moving the lamp.

15 Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

A lamp-burner consisting of a tapered cone, *c*, a fountain-cap, *B*, provided with apertures *g*, collar *a*, and return cone-seat *b*, smaller in diameter than the cone *c*, a ring, *h*, with wedge-shaped projections *e* thereon to wedge the cone *c* downward into its seat, and a ring, *f*, with hook-shaped catches *d*, substantially as described.

JOSEPH A. COULTAUS.

Witnesses:

EDGAR TATE,
ALFRED H. DAVIS.