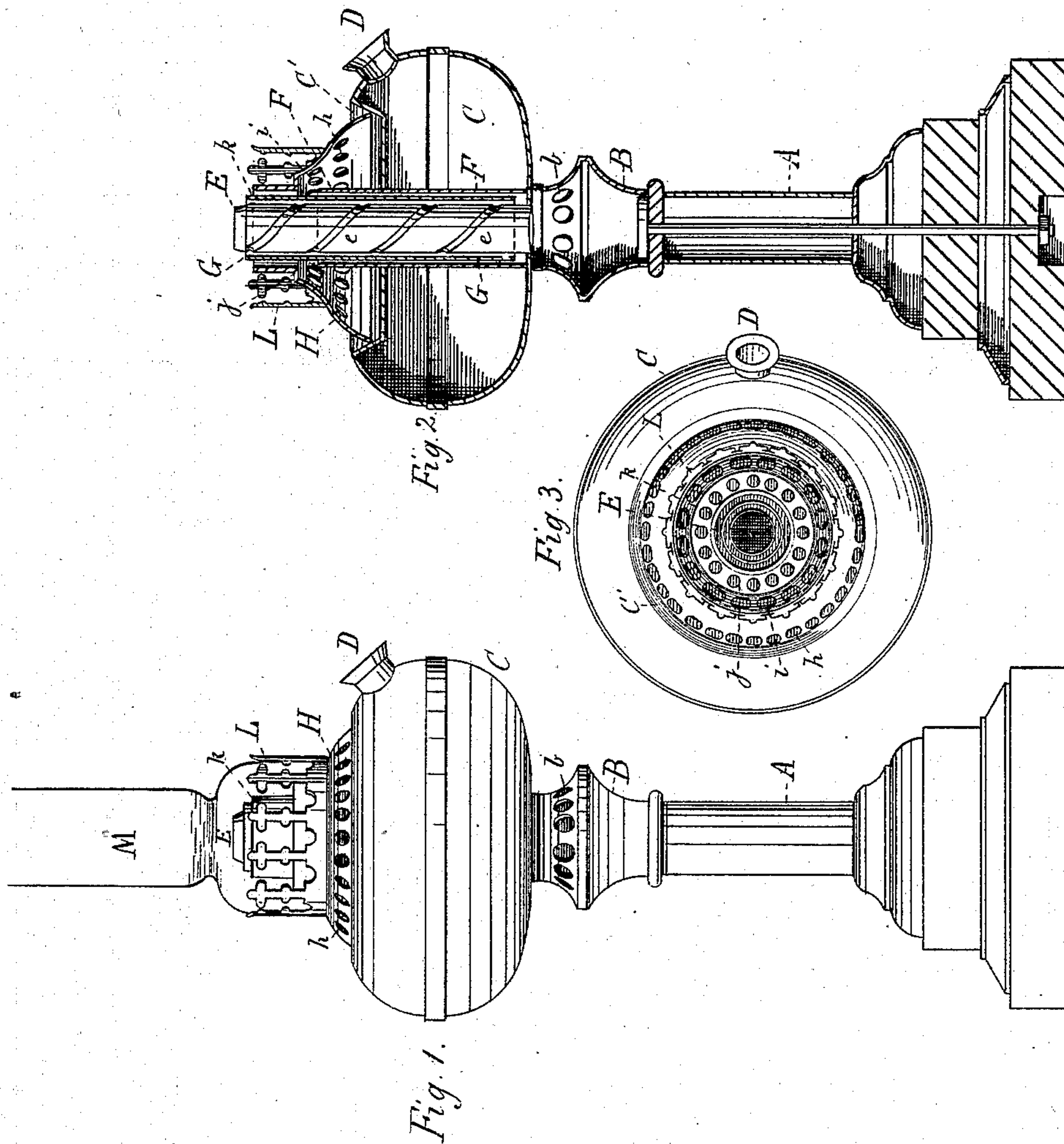


(No Model.)

A. KAESTNER.
LAMP.

No. 288,340.

Patented Nov. 13, 1883.



Witnesses =
Wm. St. Lowe
John Buckler,

Inventor =
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UNITED STATES PATENT OFFICE.

AUGUST KAESTNER, OF NEW YORK, N. Y.

LAMP.

SPECIFICATION forming part of Letters Patent No. 288,340, dated November 13, 1883.

Application filed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, AUGUST KAESTNER, of the city, county, and State of New York, have invented certain new and useful Improvements in Lamps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates especially to lamps employed for illuminating purposes, wherein hydrocarbon oil is consumed; and has for its object the production of a device cheap and simple to construct, and wherein an extremely brilliant flame is obtained.

To attain the desired end my invention consists, essentially, in an oil-fount, either of metal or glass, having a perforation or passage through its center from a drip and air cup, upon which the fount is mounted, a portion of the air to support combustion reaching the burner through said passage. The wick is raised and lowered in the manner usually employed in lamps of the class to which my invention relates. In the top of the oil-fount is a depression around the wick-tube, a petticoat formed of a single piece with the air-deflecting plate surrounding the wick-tube, and being seated in said depression and attached to the wick-regulating tube, which extends nearly to the level of the top of the central draft-tube. This petticoat is perforated in such a manner as to supply air to the burner in such quantities and at such locations as to insure the most perfect combustion. The chimney is of the Argand type; but its lower enlargement is made much shorter than usual, and by the peculiar construction of the oil-pot and burner the oil is lifted but a short distance, greatly aiding combustion.

In the drawings, Figure 1 is a view in elevation of my improved lamp. Fig. 2 is a vertical central sectional view thereof, and Fig. 3 is a plan view of the top of the lamp.

Like letters of reference, wherever they occur, indicate corresponding parts in all the figures.

A is the standard of the lamp, of any approved form; and B is the drip-cup located

thereon, said cup being provided with draft-holes *b*.

C is the oil-fount, made of metal or glass, and having a depression, *C'*, in its top, the fount being screwed upon the drip-cup B.

D is the filler for supplying oil to the lamp.

E is a central draft-tube secured to the bottom of the lamp, and passing upward through the wick-tube F, as plainly shown in Fig. 2.

G is a regulating-tube for the wick, located between tubes E and F, a spiral, *e*, being formed upon tube E in the usual manner.

H is a petticoat and air-deflector formed in one piece, and perforated at *h*, *i*, and *j*, for the purpose of supplying air to support combustion. The petticoat is attached to the wick-regulating tube G in such manner as to leave a passage for air at *k*.

L is a ring forming a support for the chimney M, the raising and lowering of the wick being accomplished by turning the petticoat upon its seat.

It will be seen that air is supplied to the flame through the central passage, serving to spread said flame, and also through the perforations *h*, *i*, and *j*, and annular passage *k*, which insures a perfect combustion and keeps the flame steady, preventing flickering, and producing a fine and even illumination.

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

In a lamp of the character herein specified, oil-fount C, having a depression, *C'*, in its top, as set forth, central draft tube, E, wick-tube F, regulating-tube G, petticoat H, perforated at *h*, *i*, and *j*, and secured to tube G, leaving an annular passage, *k*, therebetween, the whole combined and arranged to operate substantially as and for the uses and purposes shown and described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

AUGUST KAESTNER.

Witnesses:

EUGENE N. ELIOT,
A. M. PIERCE.