

(No Model.)

O. HELLER & W. DONALDSON.
STUDENT'S LAMP.

No. 302,251.

Patented July 22, 1884.

Fig. 1.

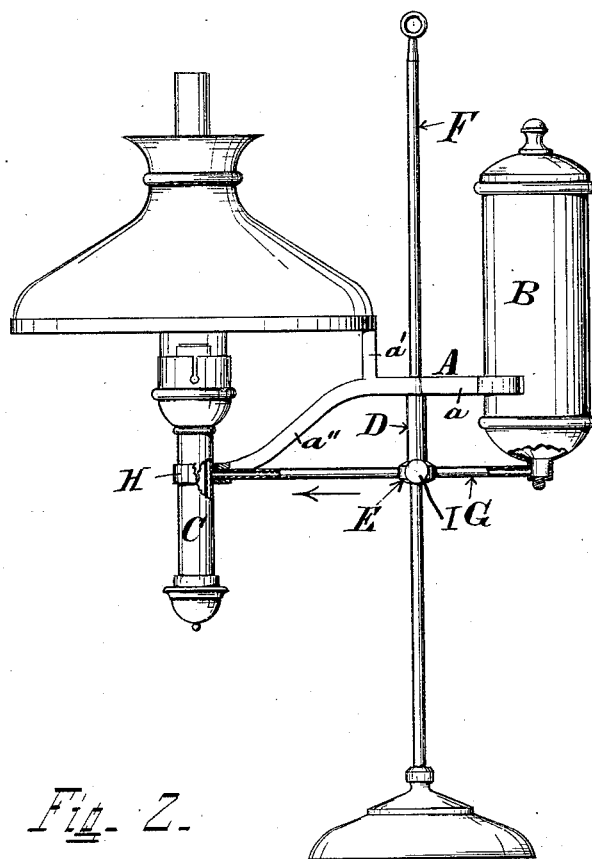
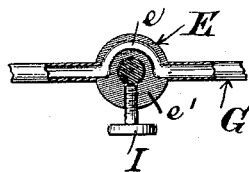


Fig. 2.



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UNITED STATES PATENT OFFICE.

OTTO HELLER, OF WEST COVINGTON, AND WILLIAM DONALDSON, OF
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STUDENT'S LAMP.

SPECIFICATION forming part of Letters Patent No. 302,251, dated July 22, 1884.

Application filed October 19, 1883. (No model.)

To all whom it may concern:

Be it known that we, OTTO HELLER, of West Covington, Kentucky, and WILLIAM DONALDSON, of Ludlow, Kentucky, have invented new and useful Improvements in Independent Reservoir-Lamps, of which the following is a specification.

Our invention relates to that form of lamp in which the bottom of the reservoir and the wick-tube are connected by the oil-tube, while a brace extends above said oil-tube from the reservoir to the wick-tube.

Our improvement consists in a peculiar form of brace which does duty as a support for the shade-ring as well as for the reservoir and wick-tube; and, further, is connected to the sleeve whose collar has an opening through it on one side to connect the reservoir and wick-tube portions of the oil-tube, and is formed solid on the other side to give a substantial bearing to the set-screw which secures the lamp at the required height on the standard, all as hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a side view of a lamp having our improved construction, the ends of the oil-tube and adjacent parts being sectioned. Fig. 2 is a horizontal section of the collar and adjacent parts.

A is our improved brace, fitting around the standard F, secured to the top of the sleeve D in place of the ordinary oil-tube globe or ball, and having an arm, *a*, to support the reservoir B, a vertical arm, *a'*, to support the shade-ring, and an arm, *a''*, provided with a collar, H, surrounding the wick-tube C, and forming a support thereto, as well as to the outer end of the oil-tube, which is connected through it with the wick-chamber.

G is a horizontal oil-tube extending from the bottom of the reservoir to the wick-tube. The collar E at the lower end of the sleeve has an opening, *e*, through it on one side to connect the reservoir and wick-tube portions

of the oil-tube conduit. The other side, *e'*, of this collar is solid, as usual, to form a bearing for the set-screw I, by which the lamp is held at the desired height.

It will be seen that in our improvement we dispense with the ordinary ball or globe which usually surmounts the sleeve, and utilize the set-screw collar, forming therein a conduit for the passage of the oil.

Having thus described our invention, the following is what we claim as new therein and desire to secure by Letters Patent:

1. In an independent reservoir-lamp, a brace connecting the reservoir, wick-tube, shade-ring, and standard, as set forth.

2. In an independent reservoir-lamp, the combination of a reservoir, a wick-tube, and a horizontal oil-tube having a collar, and a set-screw working in one side of the collar, the oil-tube connecting the reservoir to the wick-tube through the other side of the collar, as set forth.

3. In an independent reservoir-lamp, a brace, A, having arm *a* to support the reservoir, an arm, *a'*, to support the shade-ring, and an arm, *a''*, provided with a collar, H, to support the wick-tube and outer end of the oil-tube, as set forth.

4. In an independent reservoir-lamp, the combination of a brace connecting the reservoir to the wick-tube, and the horizontal oil-tube connecting the bottom of the reservoir with the wick-tube, having a collar whose sleeve extends upwardly, the collar being formed with an oil-passage on one side and provided with a set-screw on the other, as set forth.

The foregoing specification of our invention signed by us this 15th day of October, A. D. 1883.

OTTO HELLER.
WILLIAM DONALDSON.

Witnesses:

E. H. BAKER,
JEPHTHA GARRARD.