R. S. KING.

LAMP-LIGHTING DEVICE.

No. 178,856. Patented June 20, 1876.

FIG. 1.

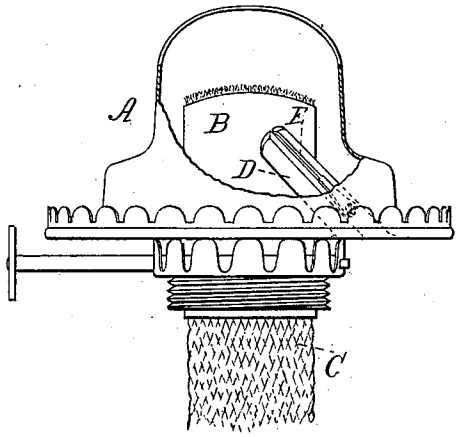

FIG. 2.

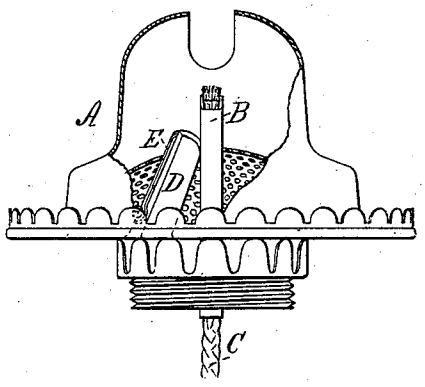

FIG. 3.

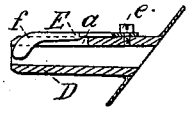

FIG. 4.

WITNESSES:

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INVENTOR.

UNITED STATES PATENT OFFICE.

RUFUS S. KING, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMP-LIGHTING DEVICES.

Specification forming part of Letters Patent No. **178,856**, dated June 20, 1876; application filed May 4, 1876.

To all whom it may concern:

Be it known that I, RUFUS S. KING, of Brooklyn, Kings county, New York, have invented, made, and applied to use, Improvements in Lamp-Lighting Device; and that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawing, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a front view of a burner to which my invention has been applied. Fig. 2 is a sectional view of the same. Fig. 3 is a sectional view of the lighting device detached from the burner. Fig. 4 is a top view of the same.

In the drawing, like parts of the invention are pointed out by the same letters of reference.

The nature of the present invention consists in the construction, as more fully hereinafter set forth, of a lamp-lighting device, applicable more particularly to the class of lamps in which kerosene-oil is consumed; the object of the invention being the construction of a lamp-lighting device for use more particularly in connection with lamps in which kerosene-oil is consumed, by which the wick may be lighted without the necessity of removing the chimney of the lamp.

To enable those skilled in the arts to make and use my invention, I will describe the construction and operation of the same.

A shows the burner of a lamp in which kerosene-oil is consumed, and B is the wick-tube of the same, in which is inserted the wick C. The attachment consists of a tube, D, the lower end of which is let into the lower portion of the burner, and is soldered or attached to the same in any convenient way, and the tube is made of sufficient length to extend, when placed in position, very nearly to the top of the wick-tube B. The tube D is slotted for a portion of its length *a*, and within this slotted portion is received a portion of a plate, E, of spring metal, attached at its lower end by a screw, *e*, to the exterior of the tube D. The upper portion of this plate of metal E is partially curved, and forms, as it were, a knife-blade, the object of which will be hereinafter explained. The tube, when placed in position, is placed at an angle to the wick-tube, as shown in Figs. 1 and 2.

Such being the construction, the operation is as follows: The attachment having been attached to a burner, as shown, to light the wick, a match is inserted in the tube D from the under side of the burner A, the head of the match being inserted first, and the match is then shoved up and through the tube D, the spring metal E accommodating itself to matches differing in diameter. As the head of the match is passed through the tube it is brought into contact with the curved portion *f* of the plate E, and the phosphorus or igniting material is cut or severed by the curved portion *f* of the plate E, by which the same is ignited, and the upward movement of the match continuing, the flame from the match is communicated to the wick, lighting the same. The wick having been lighted, the unconsumed portion of the match may be withdrawn from the tube D. The attachment thus constructed adjusts itself readily to matches differing in diameter, and is reliable in its operation.

I am aware that a lamp-lighting device in which a tube having a roughened interior surface is employed has been used, and I lay no claim to such device; for in such a device but one size of match can be used, and the mode of igniting the match differs from the mode availed of in my invention.

Having now set forth my invention, what I claim as new is—

The combination of the slotted tube D, provided with the spring-blade E, and the burner A, substantially as and for the purpose described.

RUFUS S. KING.

In presence of—
A. SIDNEY DOANE,
W. H. HICKS.