

(No Model.)

T. C. PHILLIPS.

LAMP BURNER.

No. 347,126.

Patented Aug. 10, 1886.

Fig. 1.

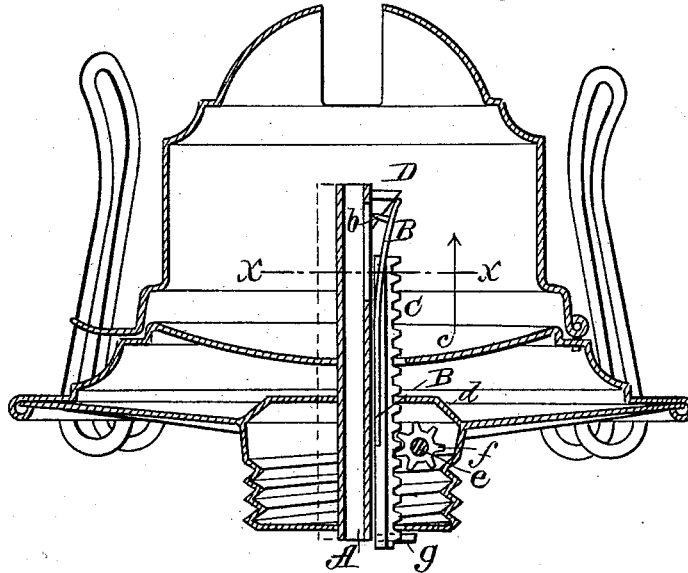


Fig. 2.

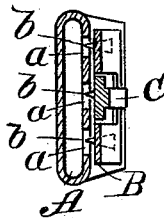


Fig. 3.

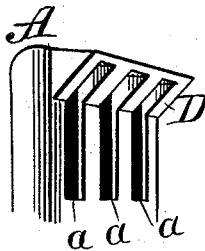
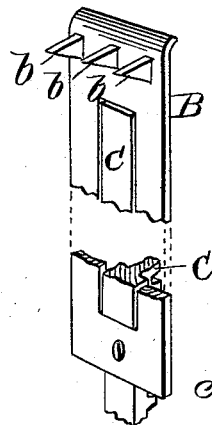


Fig. 4.



WITNESSES:

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THOMAS C. PHILLIPS, OF SEDALIA, MISSOURI.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 347,126, dated August 10, 1886.

Application filed February 15, 1886. Serial No. 191,948. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. PHILLIPS, of Sedalia, in the county of Pettis and State of Missouri, have invented a new and useful Improvement in Lamp-Burners, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a transverse section of my improved burner. Fig. 2 is a horizontal section taken on line *x x* in Fig. 1. Fig. 3 is an internal view of the spur-releasing wedge. Fig. 4 is a perspective view of the wick-raising slide.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

The object of my invention is to provide a device for raising and lowering the wicks of lamps evenly, and through a short distance.

My invention consists in a slotted wick-tube, a spring sliding plate carrying points projecting into the slots of the wick-tube, and arranged to be operated by a rack and pinion, and a slotted wedge or cam for disengaging the points carried by the spring-plate from the wick contained by the tube, as hereinafter more fully described.

The body and cap of the burner, being of the usual form, will require no special description.

The wick-tube A, which is supported centrally in the burner, in the usual way, has in one of its sides slots *a*, and a spring-plate, B, placed in contact with the slotted side of the wick-tube, is provided with points *b*, which are capable of projecting through the slots of the wick-tube, and into the material of the wick, so that when the plate B is moved up or down the wick will be moved with it. The plate B is slotted to receive a rack-bar, C, which slides in contact with the slotted side of the wick-tube A, and is secured to the lower end of the spring-plate B.

The rack-bar C and the plate B are held in place and guided by the plates *c d* of the burner, which also assist in supporting the wick-tube.

In the lower part of the burner is journaled a spindle, *e*, carrying a pinion, *f*, which en-

gages the rack C, and by which the rack and the spring-plate B are moved up and down.

To the slotted side of the wick-tube A, at the top thereof, is secured a wedge, D, having slots *a'* corresponding with the slots *a* of the wick-tube, which permit of the movement of the points *b* in the slots *a*.

When the rack C and the spring-plate B carried thereby are raised by means of the pinion *f*, the spring-plate B rides upon the wedge D and withdraws the points *b* from the wick-tube A, so that the wick may be readily inserted into the tube or removed therefrom.

After the wick has been placed in position in the tube A, the spring-plate B is moved downward, withdrawing it from the wedge D, when the points *b* will be carried forward into the wick-tube by the elasticity of the spring-plate B, and will enter the meshes of the wick, when the wick will move up or down with the spring-plate.

When it is desired to place the wick in a new position, after it has been partly consumed, the spring-plate B may be again brought into engagement with the wedge D, when the wick-tube may be freely raised to any desired position. A stop-pin, *g*, inserted in the rack, limits its upward motion.

By means of my improved wick-operating device the wick is made to move easily and evenly. The wick will be prevented from being turned too high, thereby avoiding the smoking or breaking of the chimney. It will also be prevented from being turned too low, avoiding carrying the wick downward into the lamp.

The opening through which the rack C and spring-plate B pass forms an efficient vent for the lamp, so that the vent-tube ordinarily used is not required.

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

1. The combination, with the slotted wick-tube A, of the spring-plate B, carrying points *b*, adapted to enter the slots of the tube and engage the wick contained thereby, the rack C, attached to the spring-plate B, and the pinion *f*, engaging the rack C, substantially as herein shown and described.

2. The combination, with the slotted wick-tube A, of the spring-plate B, provided with points *b*, the wedge D, secured to the wick-tube, and means for moving the spring-plate B, substantially as herein shown and described.
- 5 3. As an improved article of manufacture, a lamp-burner provided with a slotted wick-tube, A, having the wedge D, attached to the slotted side thereof, the spring-plate B, provided with points *b*, the rack C, attached to the spring-plate, and the pinion *f*, fixed on the spindle *e*, and adapted to engage the rack C, as herein shown and described.

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Witnesses:

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