

E. F. MORSE.  
Auxiliary Wick-Raiser.

No. 203,063.

Patented April 30, 1878.

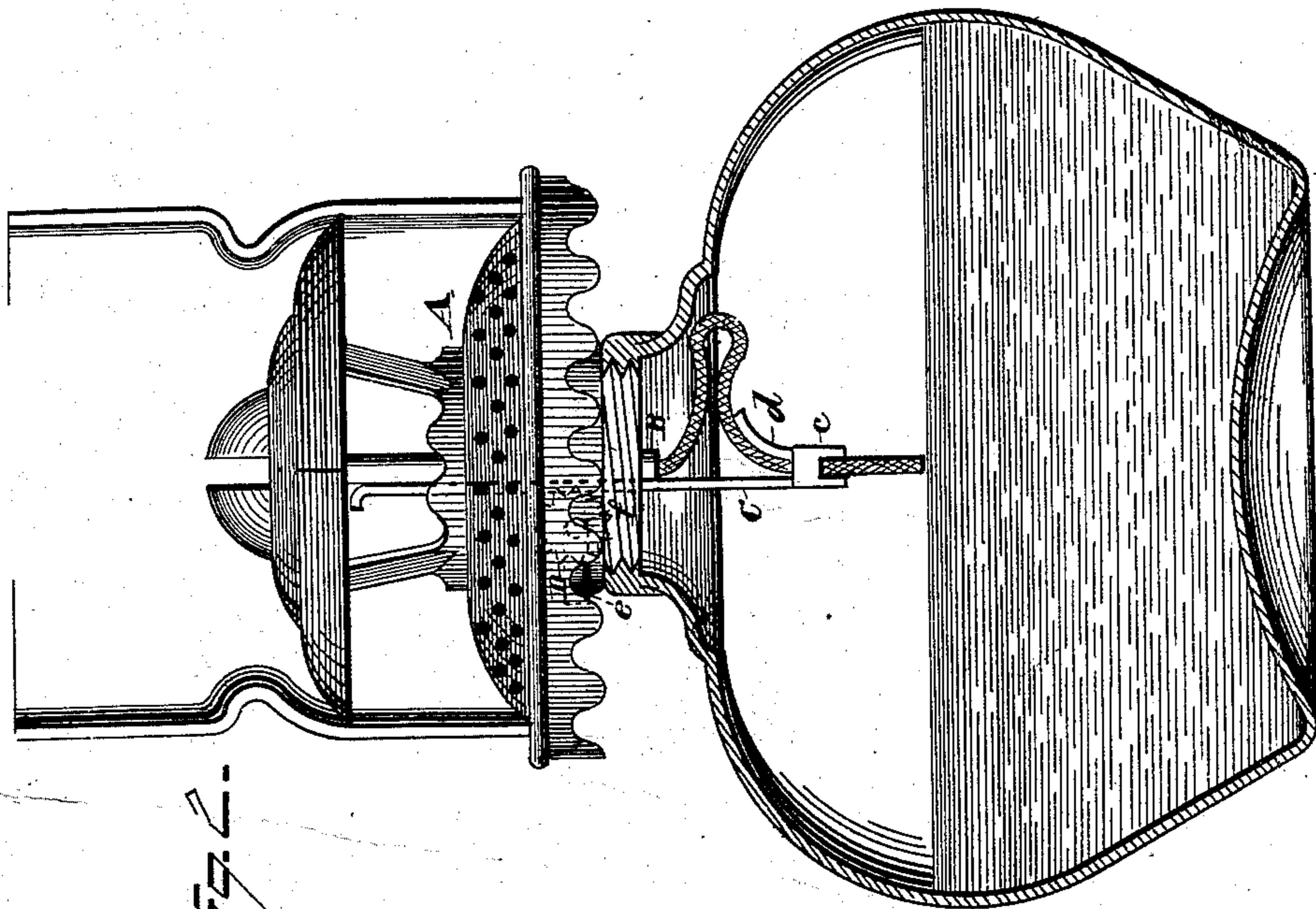


Fig. 2--

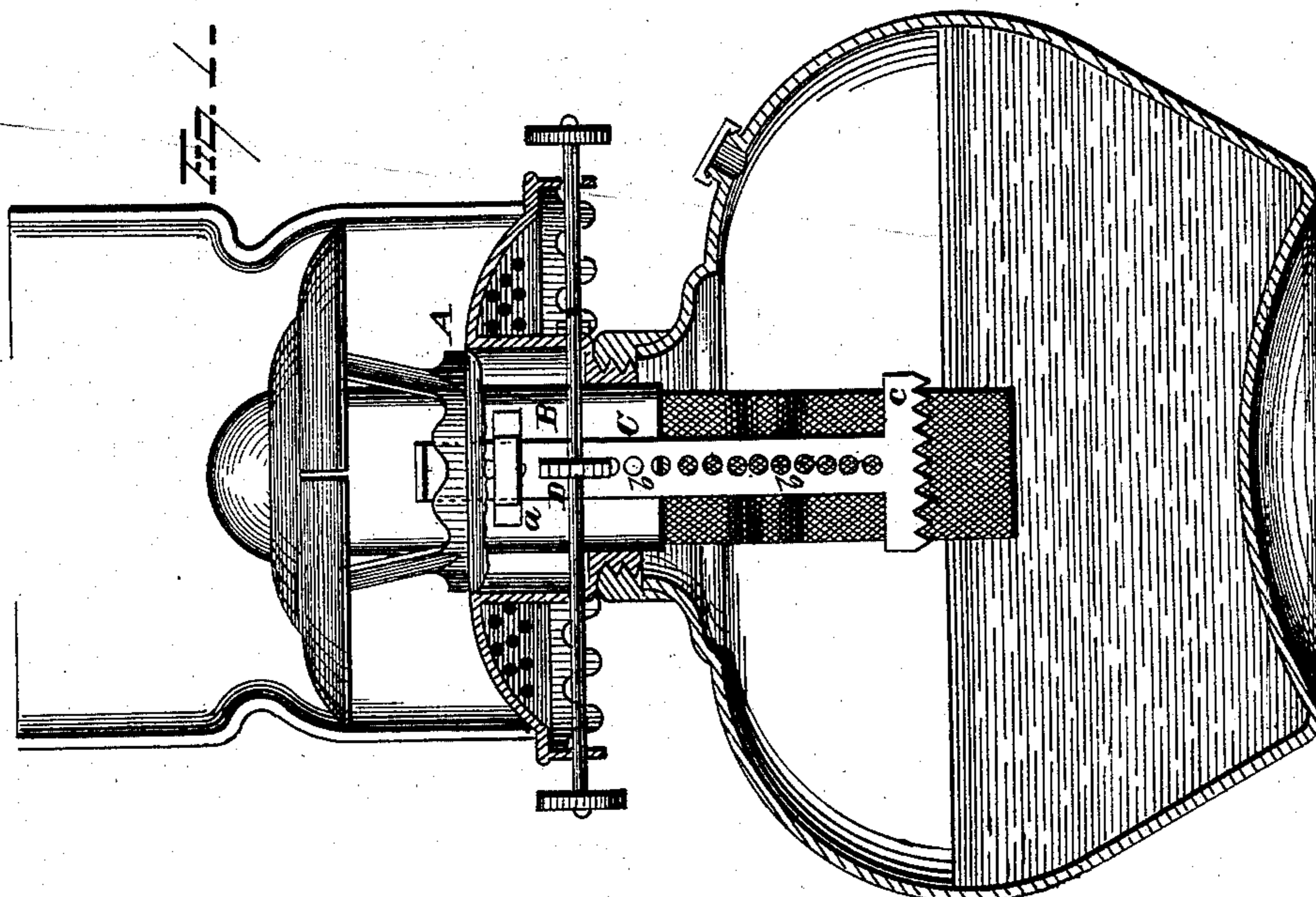


Fig. 1--

WITNESSES  
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# UNITED STATES PATENT OFFICE.

EDWARD F. MORSE, OF PLANTSVILLE, ASSIGNOR OF ONE-HALF HIS RIGHT  
TO J. B. SAVAGE, OF SOUTHTON, CONNECTICUT.

## IMPROVEMENT IN AUXILIARY WICK-RAISERS.

Specification forming part of Letters Patent No. **203,063**, dated April 30, 1878; application filed  
March 21, 1878.

*To all whom it may concern:*

Be it known that I, EDWARD F. MORSE, of Plantsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Lamp-Burners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in burners for street-lamps.

Figure 1 is a front view of my burner, having a portion cut away to show its interior construction and arrangement of parts; and Fig. 2 is a side view of the burner.

The object of my invention is to provide the burner of a street-lamp with an auxiliary wick-adjusting attachment, whereby, the amount of oil consumed in any given length of time having been determined, the light may be automatically extinguished at any desired time by regulating the amount of wick immersed in the oil of the lamp.

This invention consists in the combination, with a lamp-burner, of a vertically-adjustable strip, adapted to be adjustably secured to the wick within the body of the lamp, and an auxiliary shaft, provided with a ratchet for adjusting the position of said strip.

A represents the shell of an ordinary burner, having a loop, *a*, secured to or located near the wick-tube B. Within the loop *a* the metallic strip C, provided with a row of perforations, *b*, is vertically moved by means of a ratchet-toothed wheel, D, the teeth of which mesh with the perforations *b* in the metal strip. The lower end of the strip C is provided with a loop, *c*, of sufficient size to snugly fit the wick, which is adjusted therein so that any desired length of wick may extend below the loop.

In order to keep the gathered portion of the wick, or that portion above the loop *c*, from contact with the oil in the lamp, a light flat

spring, *d*, is secured to the loop *c*, and serves to keep the wick from dropping below the same.

To the collar of the burner the spring *e* is secured, the free end of the spring being grooved and arranged to bear on the ends of the adjusting-shaft *f*, thereby affording sufficient resistance to prevent the metal strip slipping and accidentally varying the adjustment of the wick.

To facilitate the adjustment of the wick, the shell of the burner may be constructed with an arc-shaped index-plate, formed as a part thereof; or the index may be formed separately and attached to the burner. The adjusting-shaft having a hand or pointer attached thereto, which hand or pointer sweeps the index-plate, the wick may thereby be adjusted with great accuracy.

I do not confine myself to the exact construction shown, as many modified forms of devices for adjusting the wick might be devised—as, for instance, instead of using a perforated metallic strip and a ratchet to actuate the same, I may use a flexible wire, cord, tape, or chain, and secure one end to the wick and the other to the adjusting-shaft, thereby accomplishing the desired result with a slight change in the construction of the device.

I am aware that lamp-burners have heretofore been provided with an auxiliary attachment for regulating the position of the wick, and hence I make no broad claim to any construction and arrangement of devices for effecting such result; but,

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

1. The combination, with a lamp-burner, of a vertically-movable strip, the lower end of which is adapted to be adjustably secured to the wick within the body of the lamp, and an auxiliary adjusting-shaft and ratchet-wheel, for raising and lowering said strip and wick attached thereto, substantially as set forth.

2. In a lamp-burner, the combination, with the auxiliary adjusting-shaft and ratchet, of

a perforated metallic strip, provided with a loop for its attachment to the wick, substantially as set forth.

3. In a lamp-burner, the combination, with the perforated metallic strip, of a wick-supporting arm attached thereto, for preventing the central or loop portion of the wick from dropping into the oil, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of March, 1878.

EDWARD F. MORSE.

Witnesses:

F. B. BRADLEY,  
C. H. NEALE.