

(No Model.)

A. M. SOUTHARD.
BURNER FOR GASOLENE LAMPS.

No. 591,506.

Patented Oct. 12, 1897.

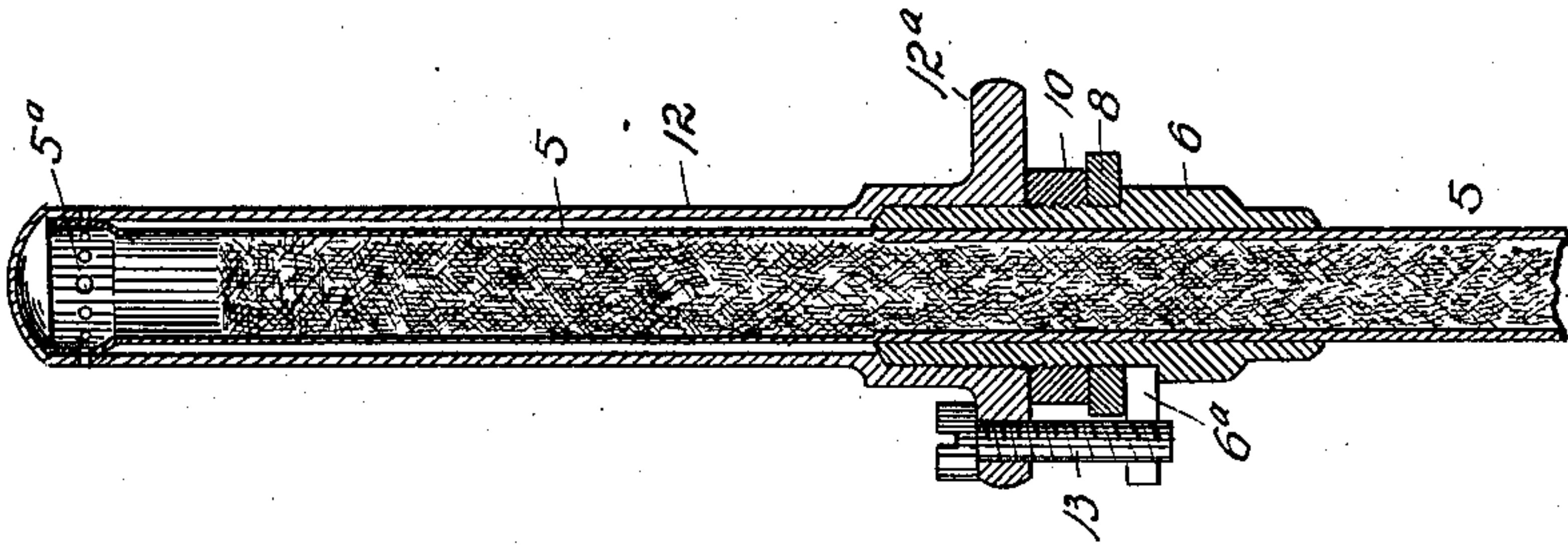


FIG. 2

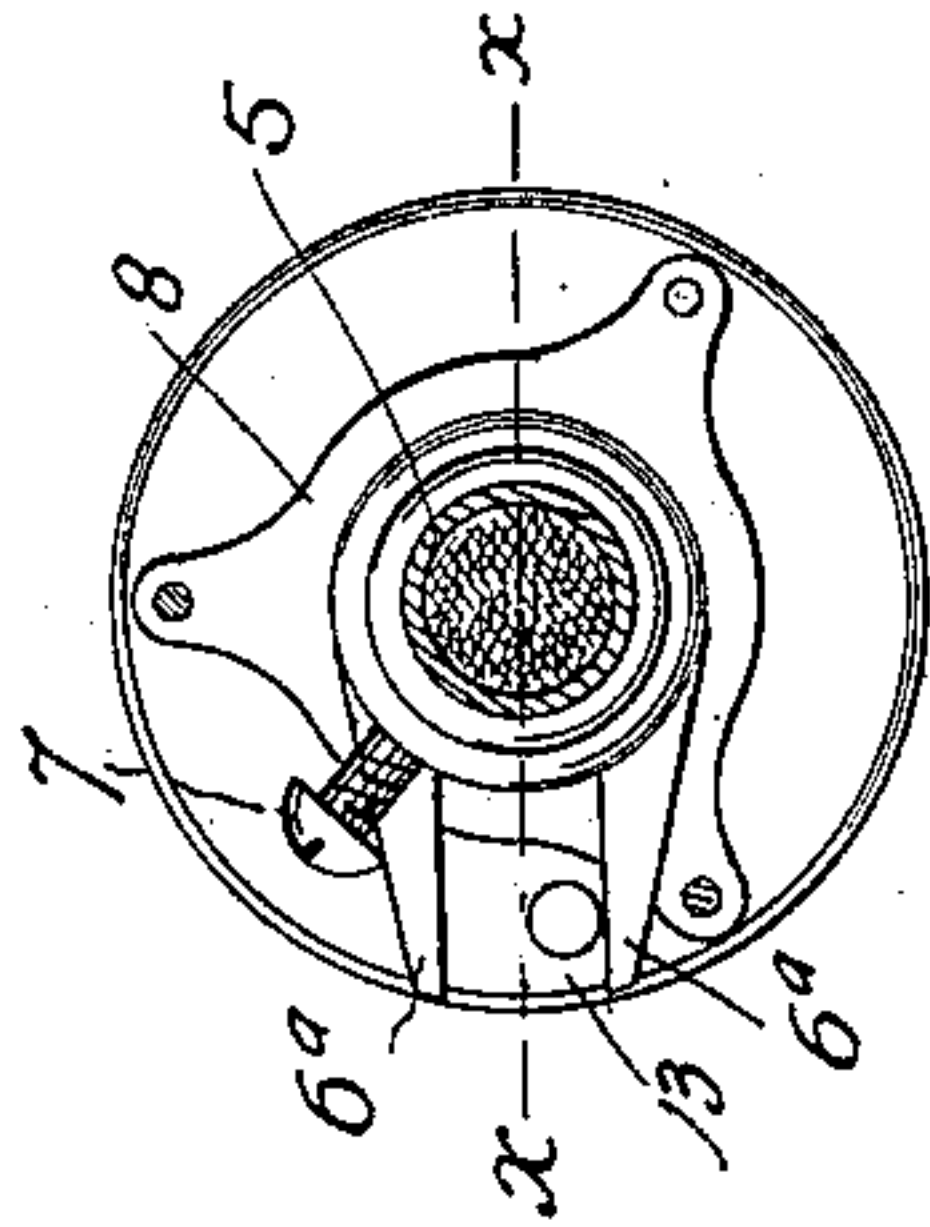


FIG. 3

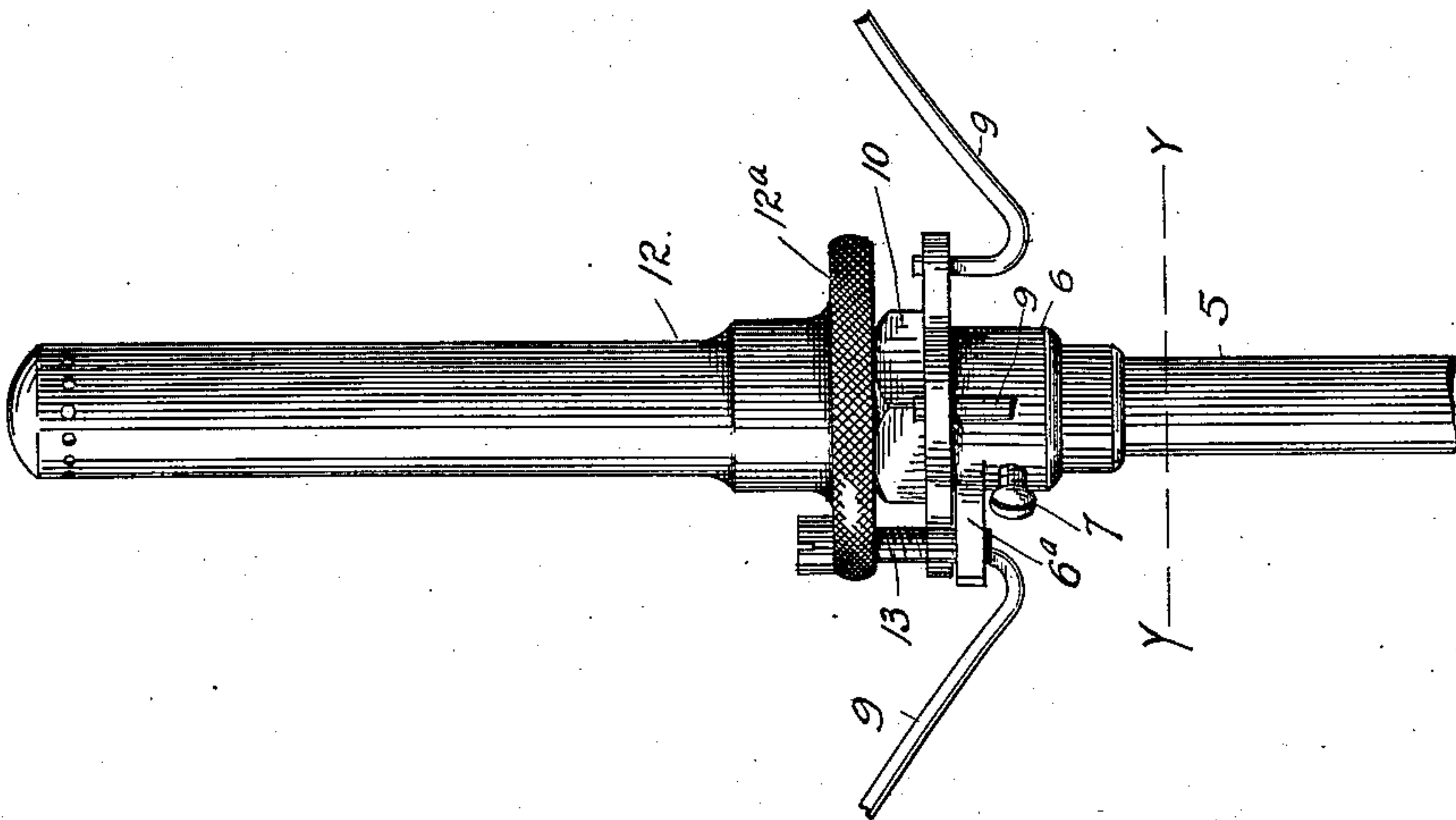


FIG. 1

Witnesses
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Inventor
A. M. Southard
By *his* Attorney *A. J. Brien*

UNITED STATES PATENT OFFICE.

ABRAHAM M. SOUTHARD, OF DENVER, COLORADO.

BURNER FOR GASOLENE-LAMPS.

SPECIFICATION forming part of Letters Patent No. 591,506, dated October 12, 1897.

Application filed April 12, 1897. Serial No. 631,826. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM M. SOUTHARD, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Burners for Gasolene-Lamps; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates generally to improvements in burners for gasolene-lamps, and more particularly to the devices for turning the gas on and off, my object being to provide simple, convenient, and efficient mechanism for adjusting the movable portion of the burner so that it shall occupy either of the two positions—that is to say, the position in which the gas is cut off or the position in which the gas is allowed to flow through the orifices in the burner.

To this end the invention consists of the features hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a side elevation of a burner provided with my improvements. Fig. 2 is a vertical section taken through the same on the line *x x*, Fig. 3. Fig. 3 is a horizontal section taken on the line *y y*, Fig. 1, looking upward.

Similar reference-characters indicate corresponding parts in the views.

Let the numeral 5 designate the tube communicating with the gasolene-supply source (not shown) at one extremity, its opposite extremity being perforated to allow the gas to escape, as shown at 5^a. To the tube 5, at a suitable distance below its perforated extremity, is attached a sleeve 6 by means of a set-screw 7. Formed integral with this sleeve are two separated lugs 6^a. Applied to the sleeve and engaging a shoulder thereon is the ring 8, carrying the shade-holding arms 9.

This ring is held in place by a nut 10, screwed upon the tube above the ring.

Slipped over the upper portion of the stationary tube 5 is the movable tube 12, whose base is interiorly threaded and screwed upon the sleeve 6, which is exteriorly threaded for the purpose. Upon the lower extremity of the tube 12 is formed a collar 12^a, having a milled edge for convenience in turning. This collar carries a screw 13, whose lower extremity enters the space between the separated lugs 6^a. This screw, together with the lugs, limits the movement of the tube 12, whose upper extremity is perforated to register, when properly adjusted, with the perforations 5^a in the tube 5. The upper extremities of the two tubes fit closely together, so that the gas may be effectually cut off by a slight turn of the tube 12, which is quickly and easily adjusted to cut off or turn on the gas by grasping the collar 12^a and giving it a slight movement in the one direction or the other. This movement is limited by the engagement of the depending screw with the lug 6^a. Between the base of the tube 12 and the perforated extremities of the tubes there is a space between the two tubes. Hence the tubes only engage each other at the base of the outer tube and at their perforated extremities. This feature is for the purpose of avoiding friction between the tubes.

Having thus described my invention, what I claim is—

The combination with the inner stationary tube having its free extremity perforated, of a sleeve detachably applied to said tube at a suitable distance below its perforated extremity, the upper portion of said sleeve being exteriorly threaded, the sleeve being also provided with separated lugs located below its threaded portion, the outer movable tube perforated to register with the perforated portion of the inner tube, the perforated tube extremities being constructed to fit closely together to form a gas-tight joint when the tubes are relatively adjusted to bring their orifices out of line with each other, the base of the outer tube being interiorly threaded and screwed upon the threaded portion of the

detachable sleeve, the lower portion of the
outer tube having a collar provided with a
threaded aperture, a screw inserted in said
aperture and projecting downwardly between
5 the separated lugs of the sleeve allowing a
limited movement of the outer tube, as and
for the purpose set forth.

In testimony whereof I affix my signature
in presence of two witnesses.

ABRAHAM M. SOUTHARD.

Witnesses:

G. J. ROLLANDET,
EDITH HIMSWORTH.