

(No Model.)

A. H. JONES.  
LAMP BURNER.

No. 575,606.

Patented Jan. 19, 1897.

Fig. 2

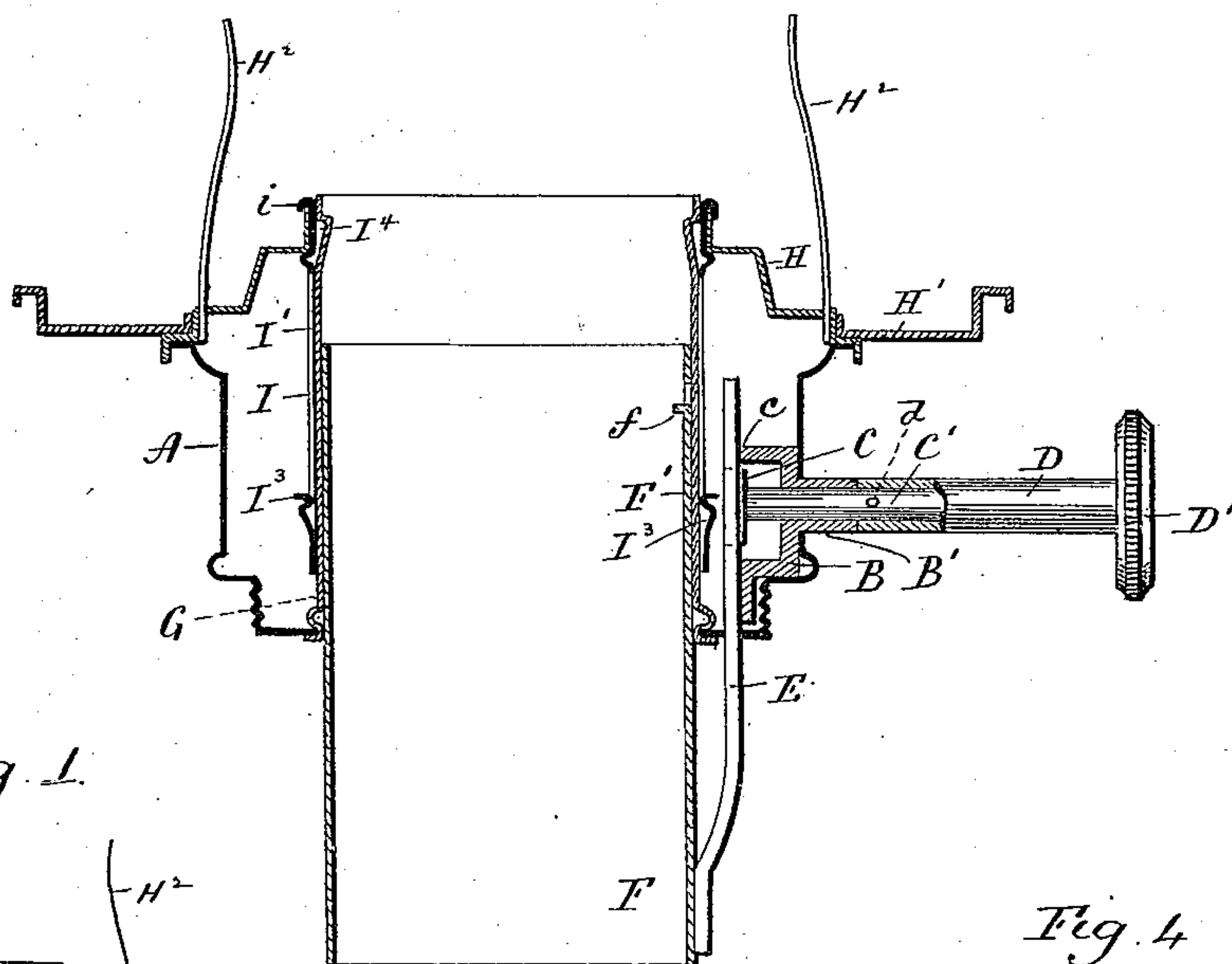


Fig. 1

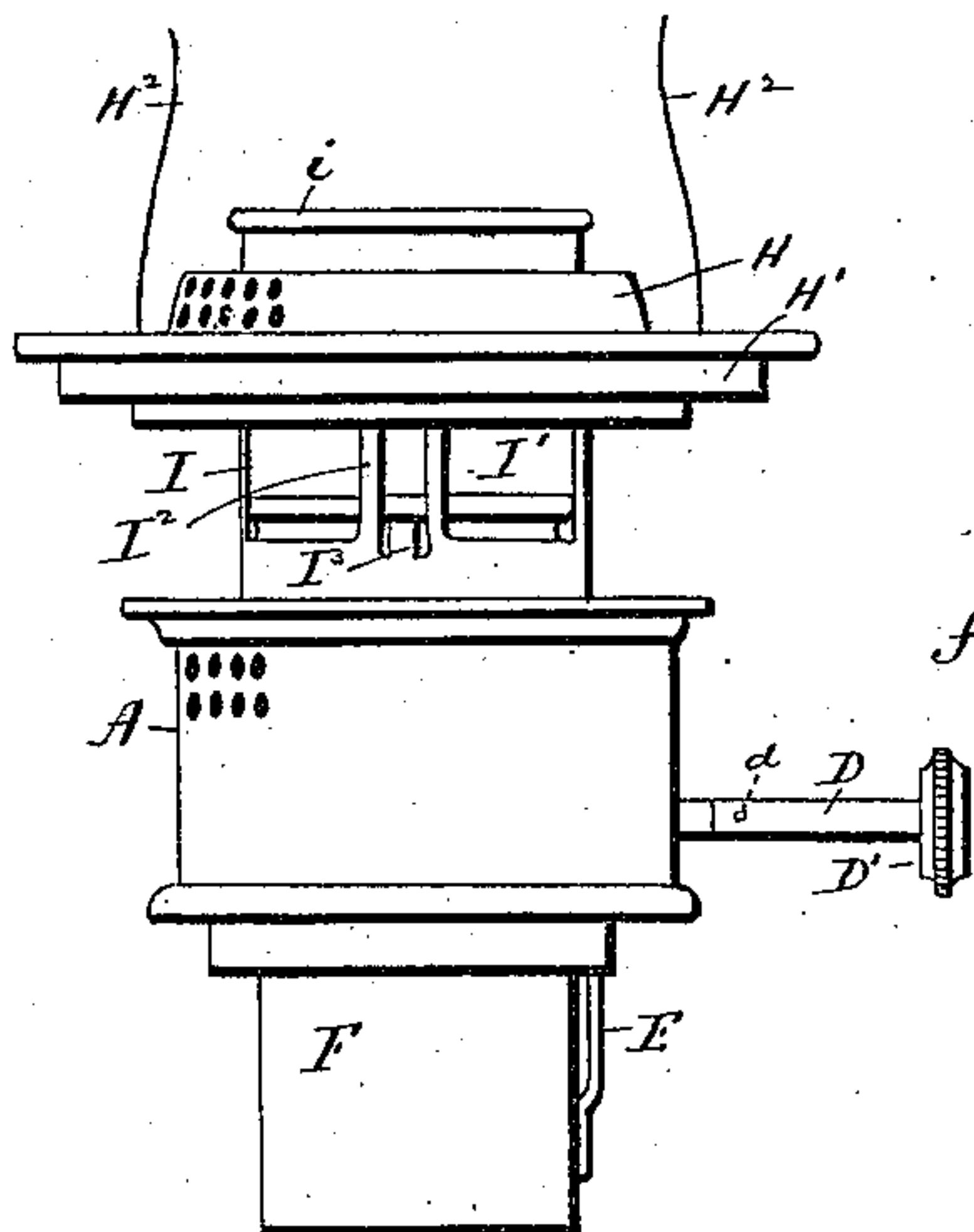


Fig. 3

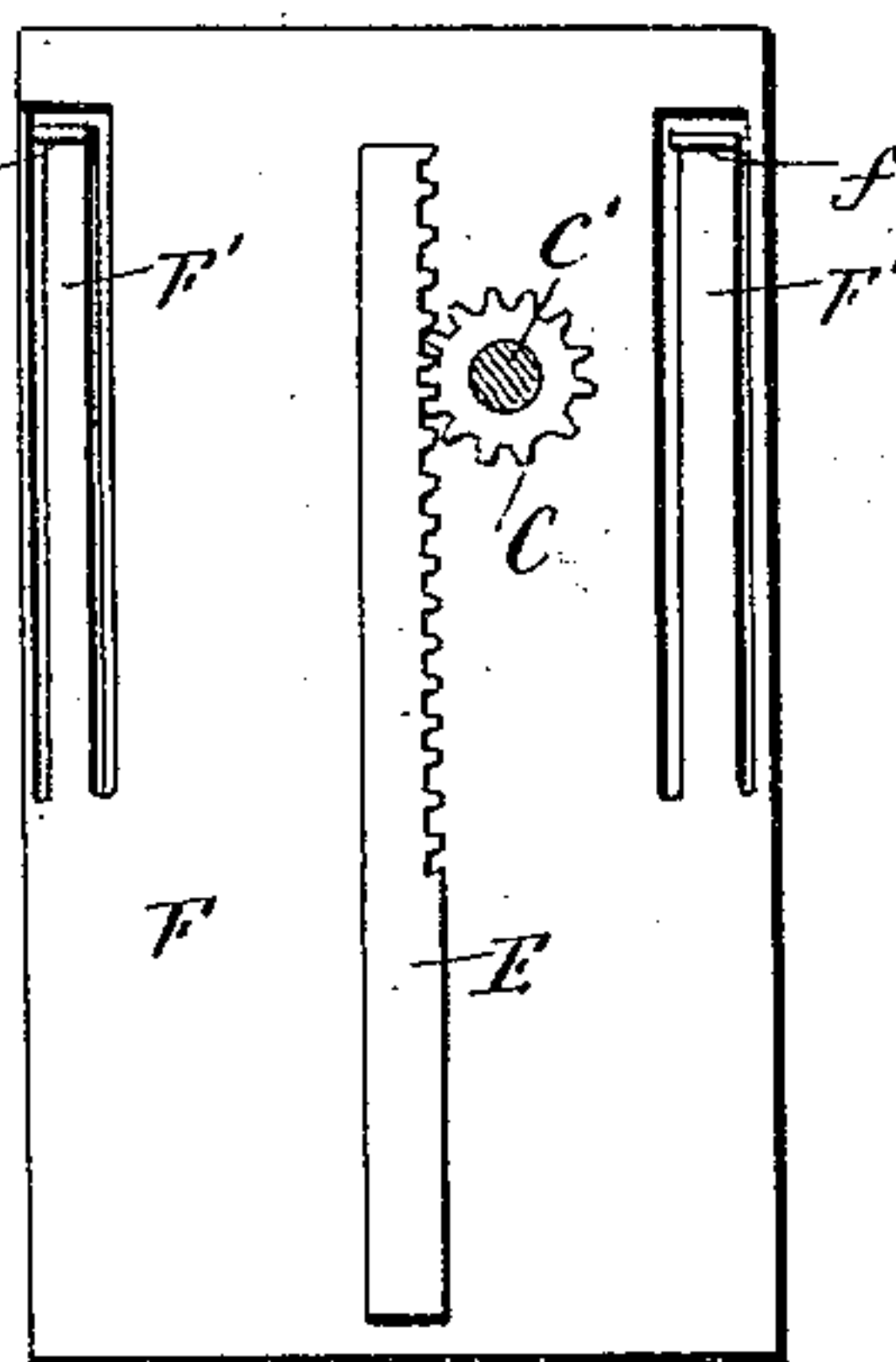


Fig. 4

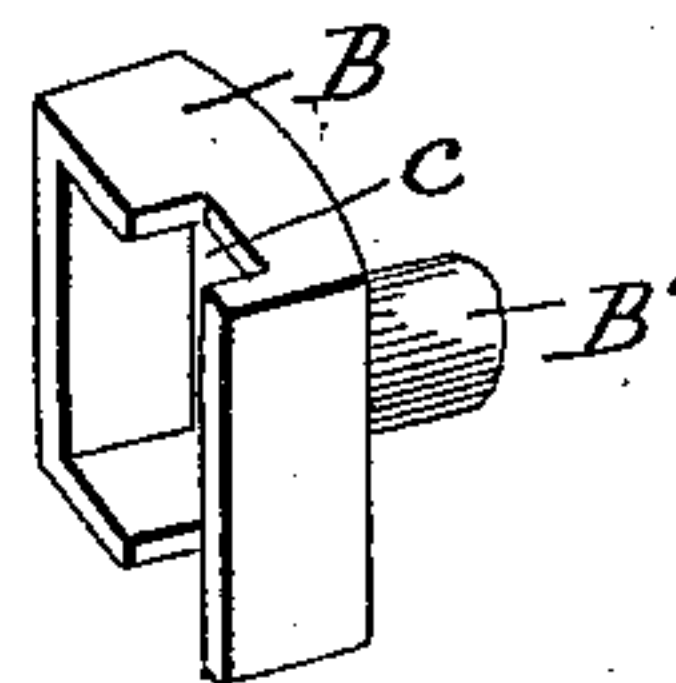
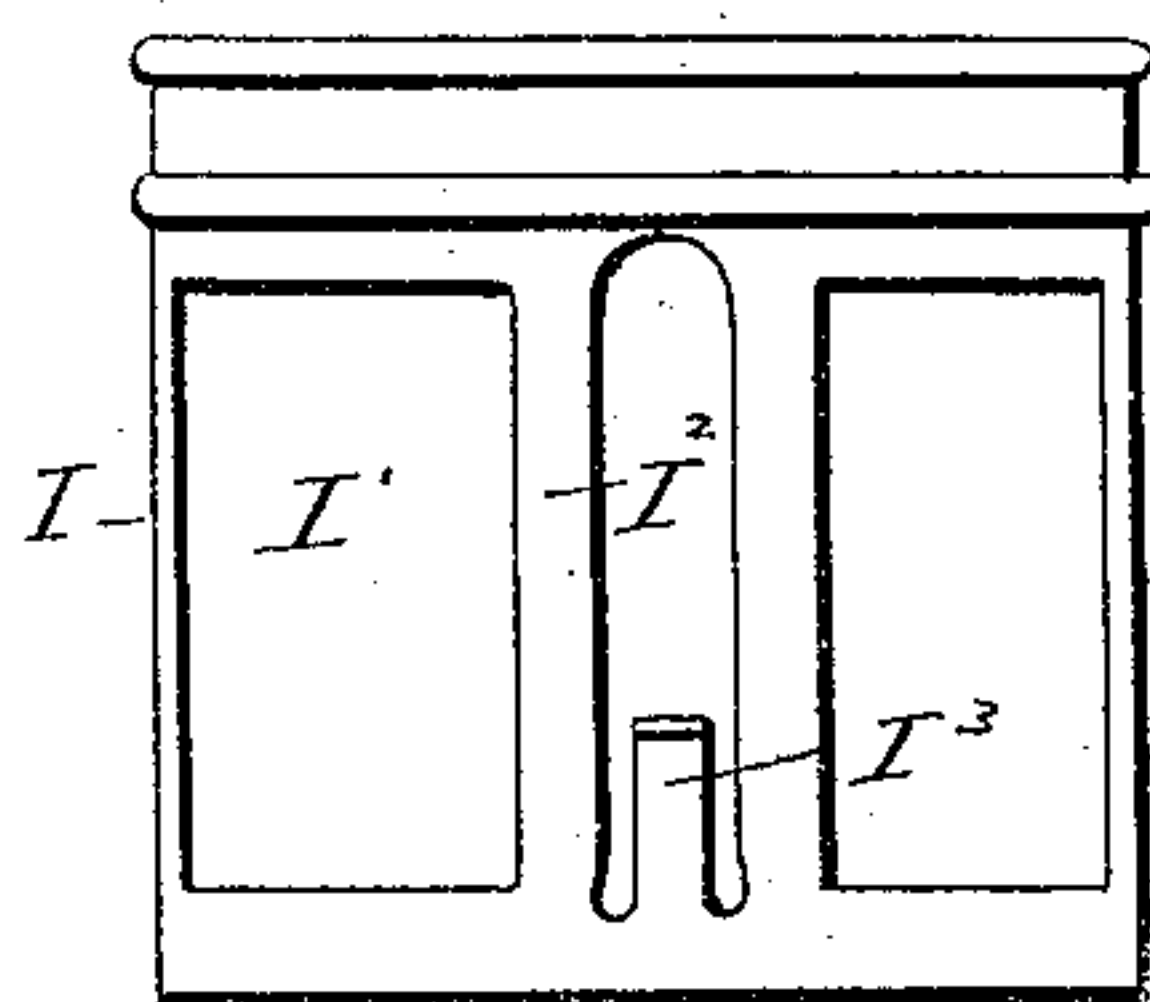


Fig. 5



Witnesses,  
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# UNITED STATES PATENT OFFICE.

AUGUSTUS H. JONES, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE  
MERIDEN BRONZE COMPANY, OF SAME PLACE.

## LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 575,606, dated January 19, 1897.

Application filed February 17, 1896. Serial No. 579,610. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS H. JONES, of Meriden, in the county of New Haven and State of Connecticut, have invented a new  
5 Improvement in Lamp-Burners; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the  
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in side elevation of one form which my improved lamp-burner may assume; Fig. 2, a view thereof in vertical cen-  
15 tral section; Fig. 3, a detached view of the tubular wick-carrier and the rack, the pinion coacting with the rack being also shown; Fig. 4, a detached view in inside elevation of the chambered head which receives the pin-  
20 ion and guides the rack; Fig. 5, a detached view of the bearing-tube of the gallery.

My invention relates to an improvement in burners for lamps of the central-draft type, the object being to provide a simple, compact,  
25 convenient, and effective burner combining in one device a rack-and-pinion wick-adjuster and a vertically-movable gallery constructed to permit a lighted taper to be applied to the wick without removing the lamp-chimney.

30 With these ends in view my invention consists in a lamp-burner having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

35 In carrying out my invention, as herein shown, the perforated skirt or body A of the burner has located within it a chambered bearing-head B, receiving the pinion C, which is mounted upon the inner end of a shaft C', journaled in the said bearing-head, which is  
40 constructed with an outwardly-extending sleeve B', forming an extended bearing for the said shaft, the outer end of which projects beyond the sleeve for the reception of a spindle D, provided with a finger-button D',  
45 the sleeve being secured to the shaft by means of a transverse pin d or in any other approved manner. The inner face of the head is constructed with a vertical guideway or  
50 slot c, which receives the upper end of the rack E and holds the toothed edge of the

same in engagement with the pinion C. The lower end of the said rack is secured to the lower end of the tubular wick-carrier F, which is adapted to fit within the outer wick-  
55 tube G, which forms a member of the burner. The said tubular wick-carrier is constructed, as herein shown, with three vertically-arranged spring wick-gripping jaws F', the upper edges of which are bent inwardly to form  
60 wick-gripping teeth f. These jaws, it will be understood, ride upon the inner periphery of the outer wick-tube, while their teeth f project inward sufficiently beyond the inner pe-  
65 riphery of the tubular wick-carrier to take into the wick for holding the same.

By rotating the spindle D in one direction or the other through the medium of its finger-  
button D' the pinion C will be correspond-  
70 ingly rotated and act through the medium of the rack to positively raise or lower the tubular wick-carrier, and hence the wick.

The gallery H, which is provided, as herein shown, with a globe-holder H' and chimney-  
75 holding fingers H<sup>2</sup>, both of which may be of any ordinary construction, is also provided with a depending bearing-tube I, conforming in diameter to the diameter of the central opening of the gallery and spun over the ex-  
80 treme upper edge thereof, as shown in Fig. 2, to form the retaining-flange i. This bearing-tube is cut away to form large lighting-open-  
85 ings I', affording the ready access to the wick of a lighted taper when the gallery is raised, as shown in Fig. 1. The webs I<sup>2</sup> formed be-  
90 tween the lighting-openings inclose spring-fingers I<sup>3</sup>, formed integral with the bearing-tube and located at the lower ends of the said openings, the said fingers riding upon the ex-  
95 terior surface of the outer wick-tube when the gallery is depressed and springing, when the gallery is elevated, into a circumferential groove I<sup>4</sup>, formed in the upper end of the  
100 outer wick-tube, and comprising a square shoulder located at its upper end, against which the springs impinge for preventing the bearing-tube, and hence the gallery, from being disconnected from the outer wick-tube, and hence the burner, the said groove also comprising a beveled lower portion, permit-  
ting the springs to ride easily out of the groove when the gallery is depressed. I do not, how-



ever, limit myself to a vertically-movable gallery constructed and arranged exactly as described.

5 I would call attention to the fact that in my improved lamp-burner as organized the rack extends upward within the skirt or body of the burner and between the same and the outer wick-tube, and also between the same and the bearing-tube of the gallery, which is  
10 cleared by the rack, so that neither one interferes with the other, although they perform their offices in virtually the same main portion of the burner and in closely adjacent parallel vertical planes.

15 It is apparent that in carrying out my invention some variations from the construction herein shown and described may be made. I would therefore have it understood that I do not limit myself to the same, but hold myself  
20 at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

I claim—

25 In a burner for central-draft lamps, the combination with a burner-body, of an outer wick-tube secured by its lower end thereto and ris-

ing centrally therein, a vertically-movable gallery comprising a depending bearing-tube fitting over the upper end of the said outer wick-tube and having lighting-openings, a  
30 tubular wick-carrier fitting within the said outer wick-tube and adapted to engage with a wick, a rack secured by its lower end to the said carrier and extending upward into the said burner-body in position so that when the  
35 bearing-tube is moved up and down it will clear the said rack, and so that when the rack is moved up and down it will clear the said bearing-tube, and a horizontally-arranged spindle mounted in the burner-body, and pro-  
40 vided at its inner end with a pinion located within the burner-body and meshing into the said rack for raising and lowering the same and hence the carrier, substantially as set forth.

45 In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

AUGUSTUS H. JONES.

Witnesses:

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