

(No Model.)

A. GROSS.
EXTINGUISHER FOR LAMP BURNERS.

No. 561,108.

Patented June 2, 1896.

Fig. 1.

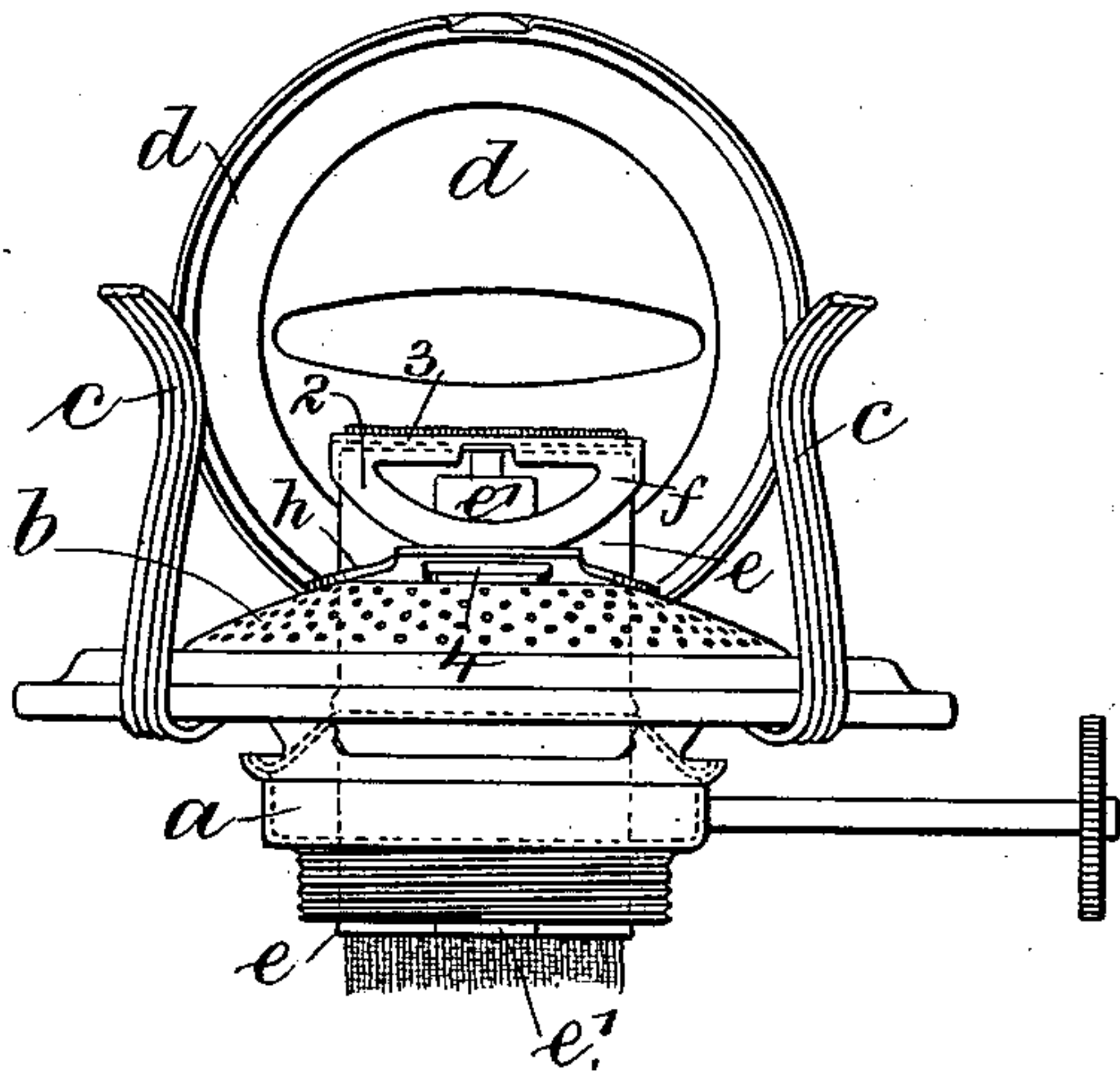


Fig. 2.

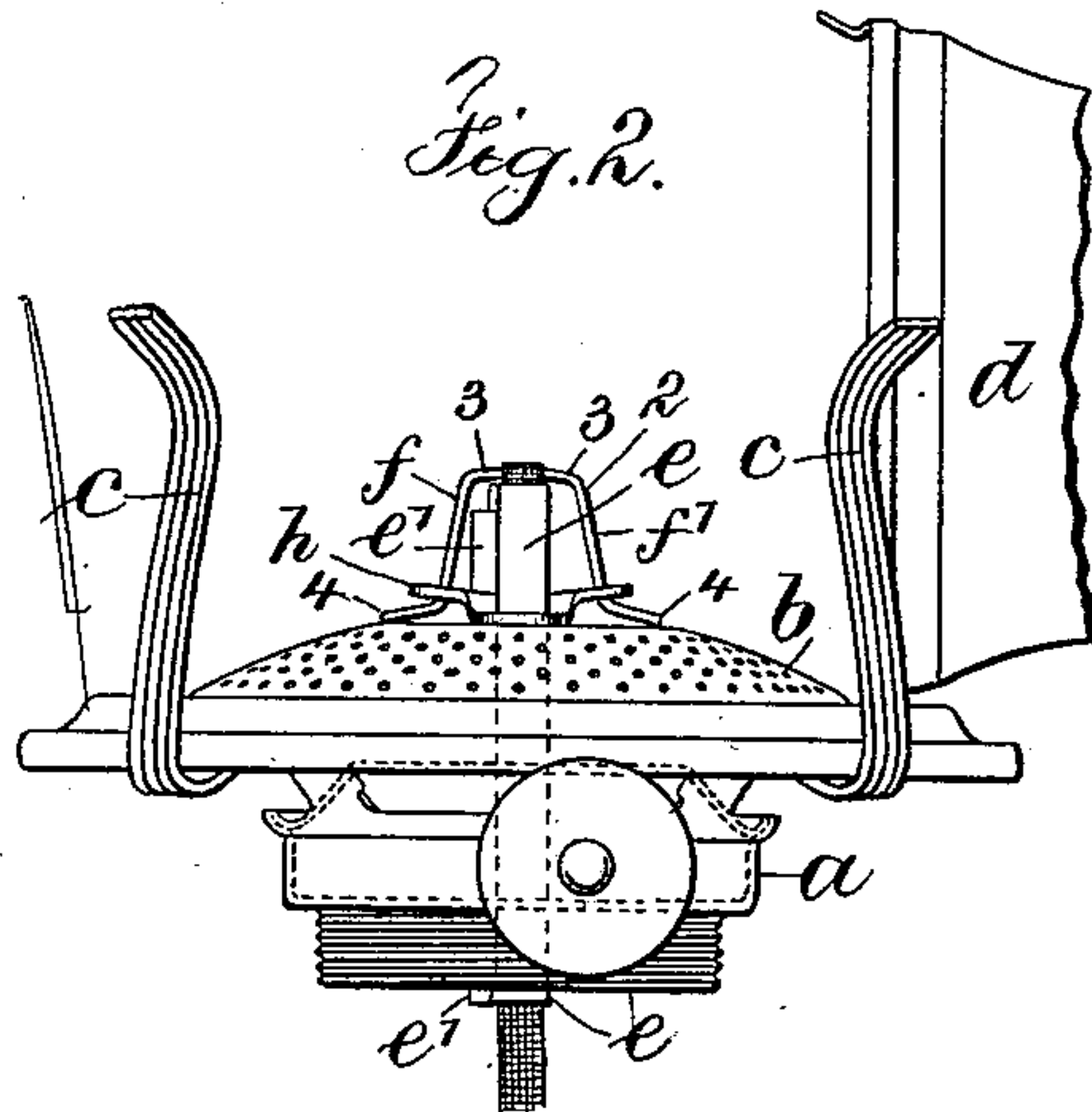


Fig. 3.

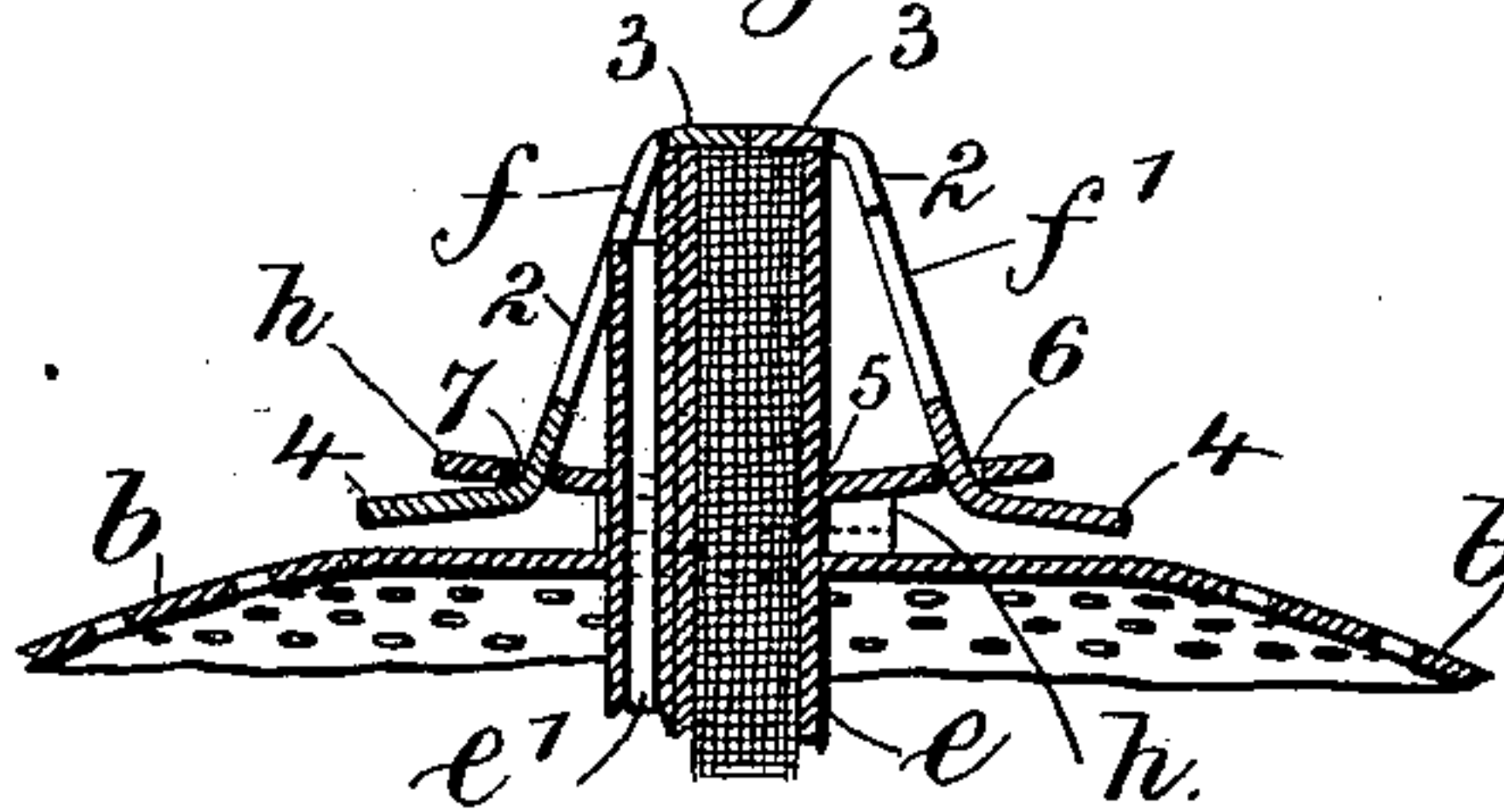


Fig. 5.

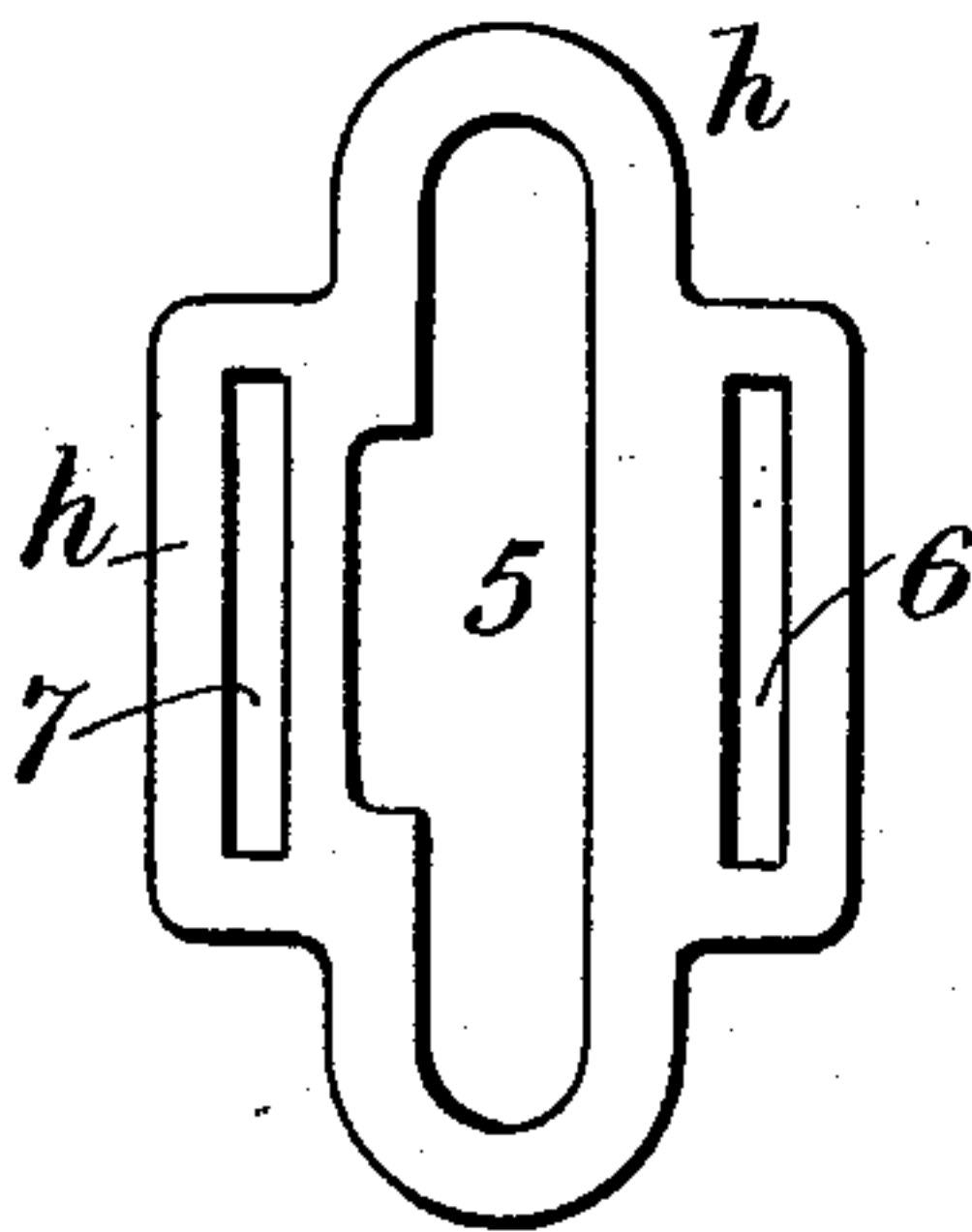
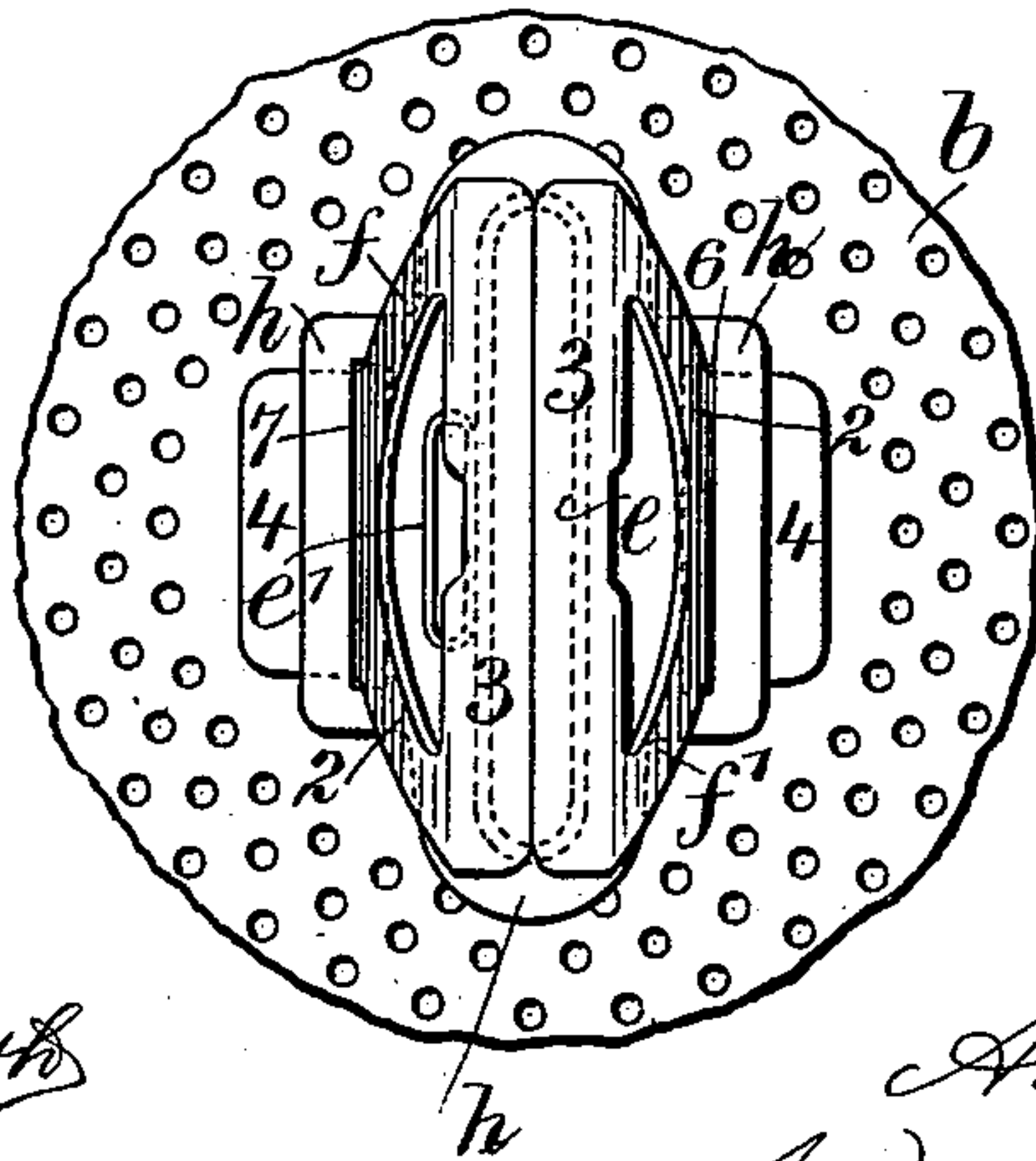


Fig. 4.



Witnesses

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AUGUST GROSS, OF NEW YORK, N. Y., ASSIGNOR TO THE MANHATTAN
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EXTINGUISHER FOR LAMP-BURNERS.

SPECIFICATION forming part of Letters Patent No. 561,108, dated June 2, 1896.

Application filed October 30, 1895. Serial No. 567,426. (No model.)

To all whom it may concern:

Be it known that I, AUGUST GROSS, a citizen of the United States, residing at New York, in the county and State of New York, have
5 invented a new and useful Improvement in Extinguishers for Lamp-Burners, of which the following is a specification.

My invention relates to an automatic gravity-operated extinguisher of simple and efficient construction and adapted to flat-wick
10 lamp-burners.

In carrying out my invention I employ two similar extinguisher-blades having lips that meet centrally and longitudinally over the
15 wick. These extinguisher-blades occupy an inclined position and are provided with foot-pieces that take a bearing in a base-plate that surrounds the wick-tube above the perforated air-distributor. As the wick is raised
20 in the ordinary manner the extinguisher-blades are parted and the edges of their lips come at opposite sides of the wick and their foot-pieces swing down and come in contact with the metal to form a stop. As the wick
25 is drawn down the inclined extinguisher-blades fall automatically and by gravity and their lips come together over the wick and put out the light.

In the drawings, Figure 1 is an elevation of a lamp-burner, showing my improvements, the elevation being flatwise of the wick and wick-tube. Fig. 2 is a similar elevation edgewise of the wick and wick-tube. Fig. 3 is a cross-section in larger size, showing the parts of the
35 extinguisher, the wick-tube, wick, and air-distributor. Fig. 4 is a plan view of the parts shown in Fig. 3, and Fig. 5 is a plan view of the base-plate.

The burner shown is of a well-known flat-wick form, and among the parts comprising the same are the base *a*, perforated air-distributor *b*, spring chimney-holding arms *c*, conical deflector *d*, wick-tube *e*, and vapor-tube *e'*.
40

The extinguisher-blades *f f'* are similar, and each consists of a plate 2, lip 3, and foot-piece 4, of approximately the form shown.

The base-plate *h* is provided with a central mortise 5 and opposite parallel mortises
50 6 7, and the central mortise 5 receives the

wick-tube *e* and vapor-tube *e'* when said base-plate is forced down over the same to place above the air-distributor *b*.

The foot-pieces 4 are narrower than the plate and lip portions, and they extend 55 through the mortises 6 7 and between the plate *h* and the air-distributor, and the edges of the lip-pieces 3 are parallel and meet centrally over the wick and extend longitudinally to cover such wick. 60

In the position shown in Figs. 3 and 4 the wick is depressed and the lips of the extinguisher closed over its upper end, as would be the case in putting out the light.

The foot-pieces 4 where they pass through 65 the mortises 6 7 act the same as hinges, upon which the extinguisher-blades swing, and these blades incline toward the wick, and as their major parts are the blades 2 and lips 3 the preponderance of weight is within 70 vertical lines drawn through the mortises 6 7. Hence the action of gravity is to keep the extinguisher-blades closed.

As the wick is elevated, as shown in Figs. 1 and 2, it parts the extinguisher-blades and 75 their lips bear upon opposite sides of the wick, while their foot-pieces just touch the top of the air-distributor *b*. In this position, and before the wick is entirely depressed, the straight edges of the lips serve advantageously to clean off the top of the wick from incrustation. 80

I claim as my invention—

The combination with a lamp-burner, of a base-plate having a central mortise to receive 85 the wick-tube and two opposite and parallel mortises 6 7, two extinguisher-blades each comprising a foot-piece, plate and lip, the foot-pieces passing through the mortises 6 7 and coming between the base-plate and air-distributor of the burner, and the extinguisher-blades being inclined and the lips adjacent to the wick, substantially as set forth. 90

Signed by me this 26th day of October, A. D. 1895.

AUGUST GROSS.

Witnesses:

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