

No. 624,265.

Patented May 2, 1899.

A. TILLMES.
INCANDESCENT LAMP.

(Application filed May 17, 1898.)

(No Model.)

Fig. 1.

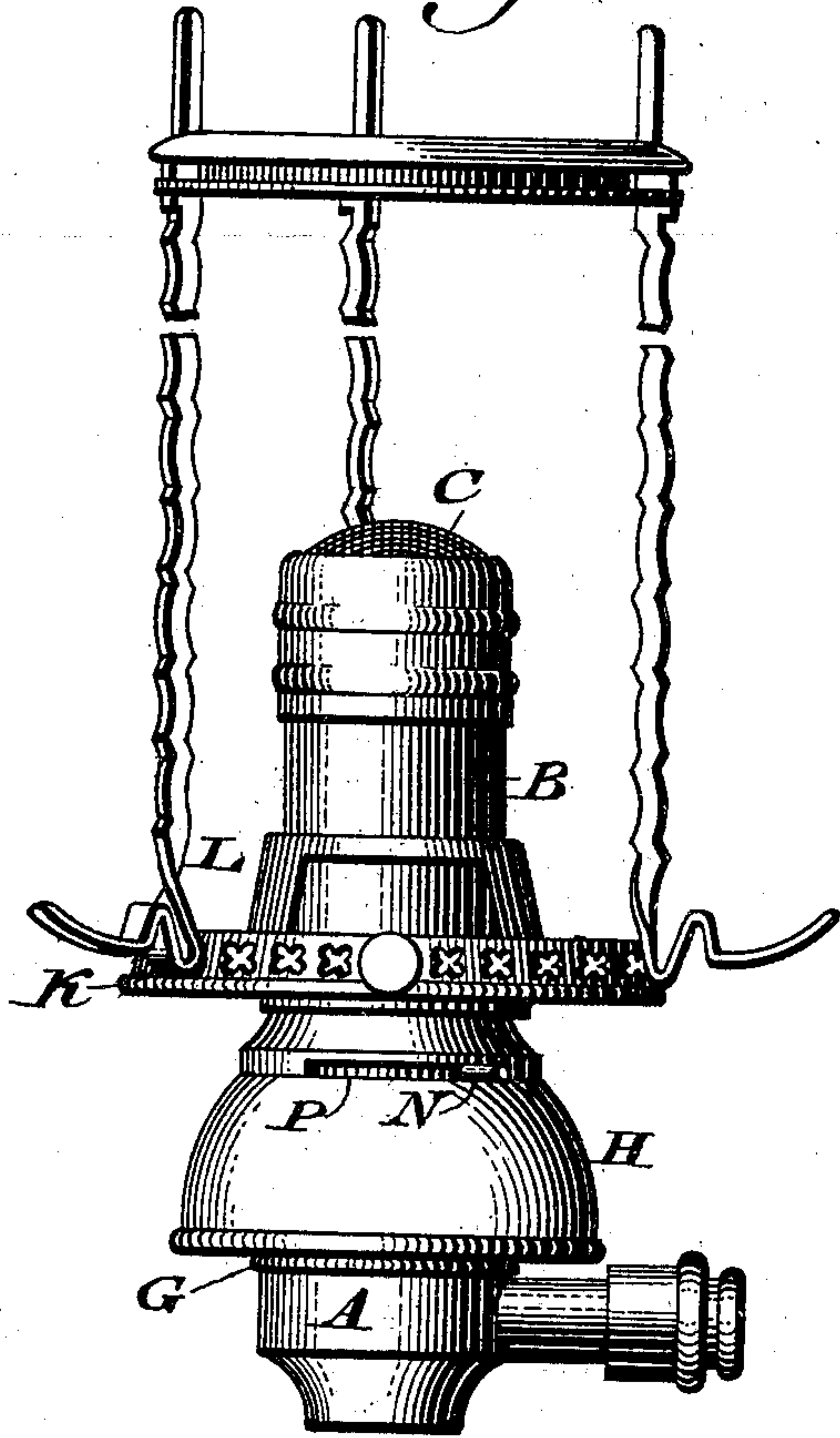


Fig. 2.

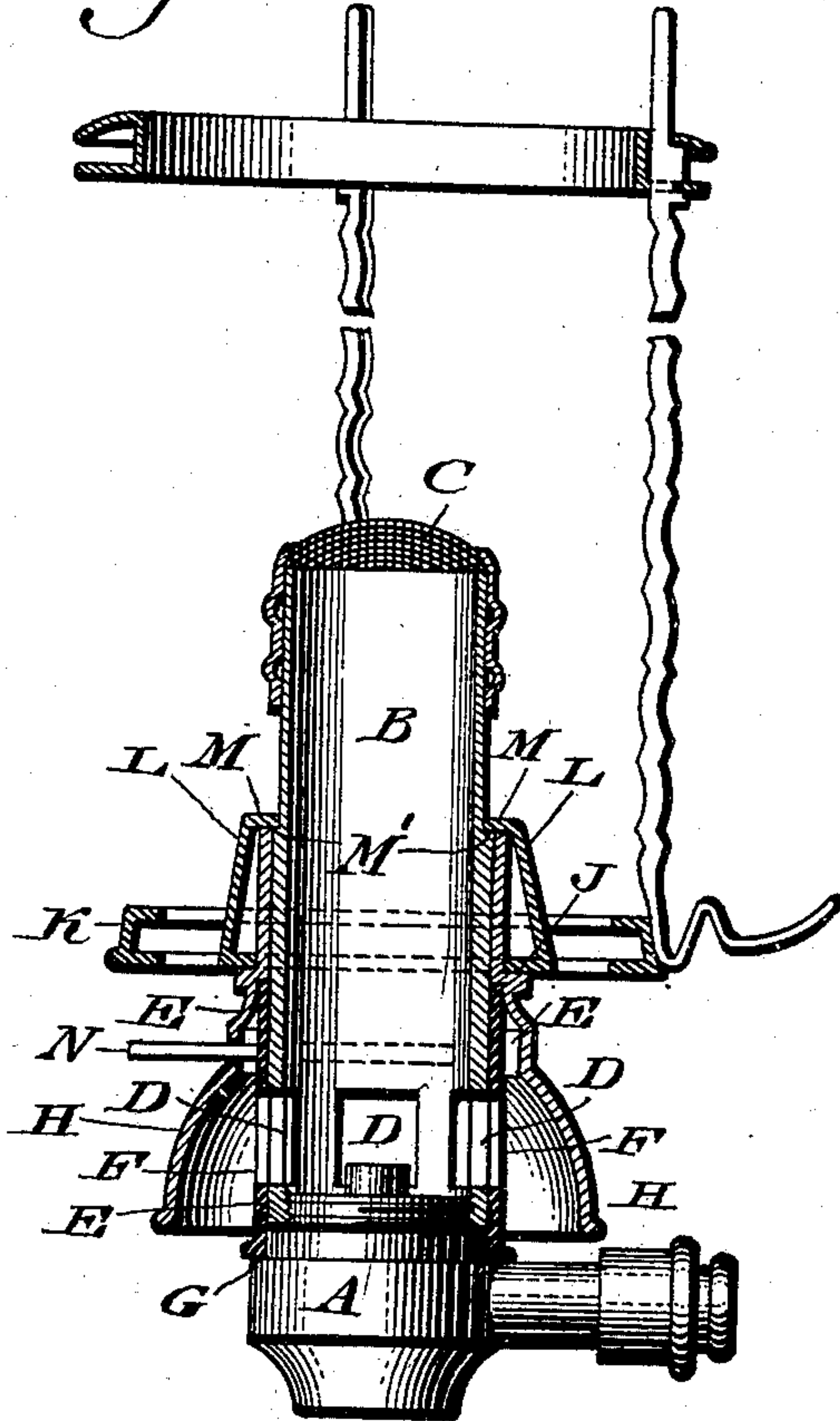


Fig. 4.

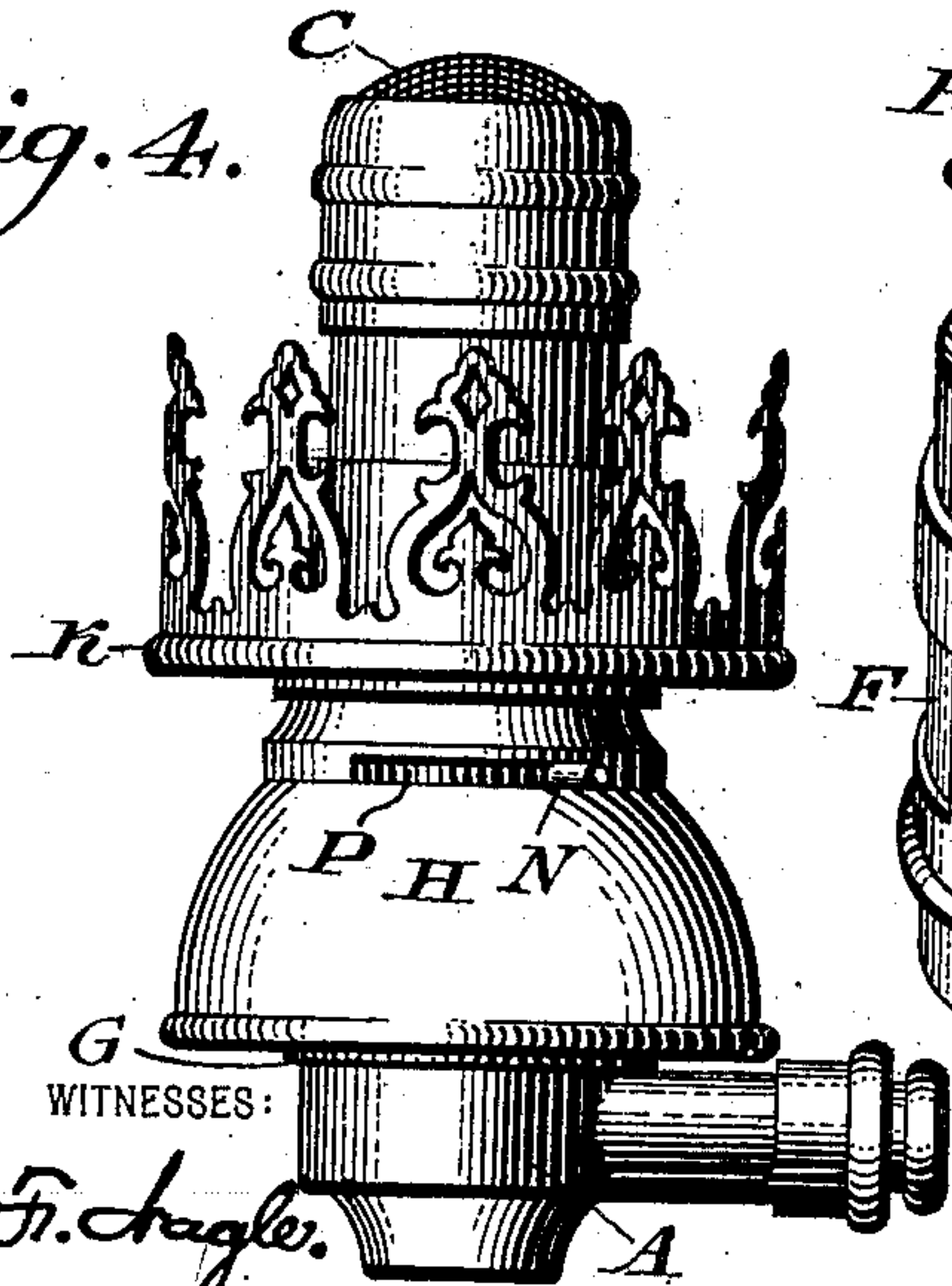


Fig. 3.

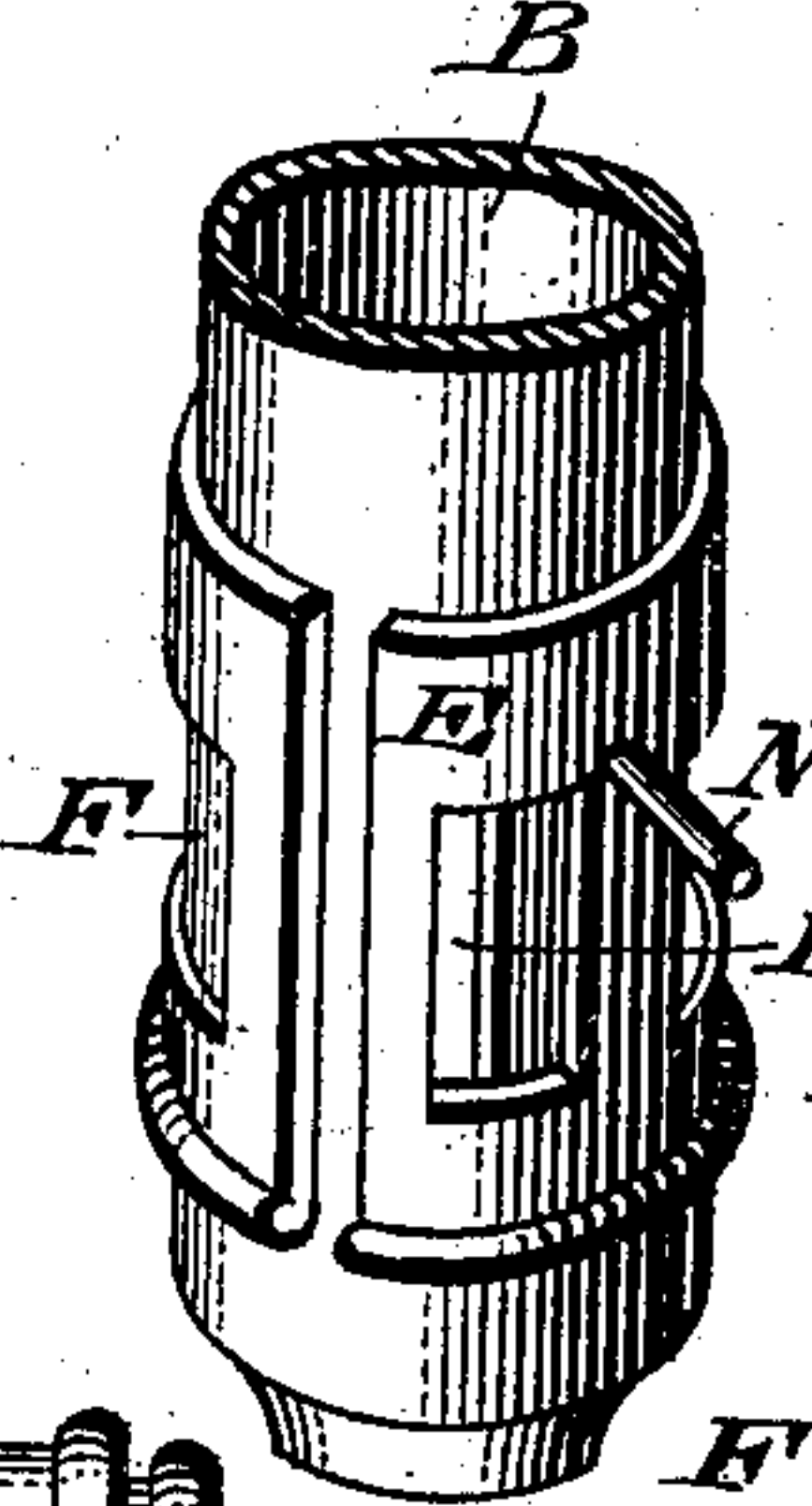
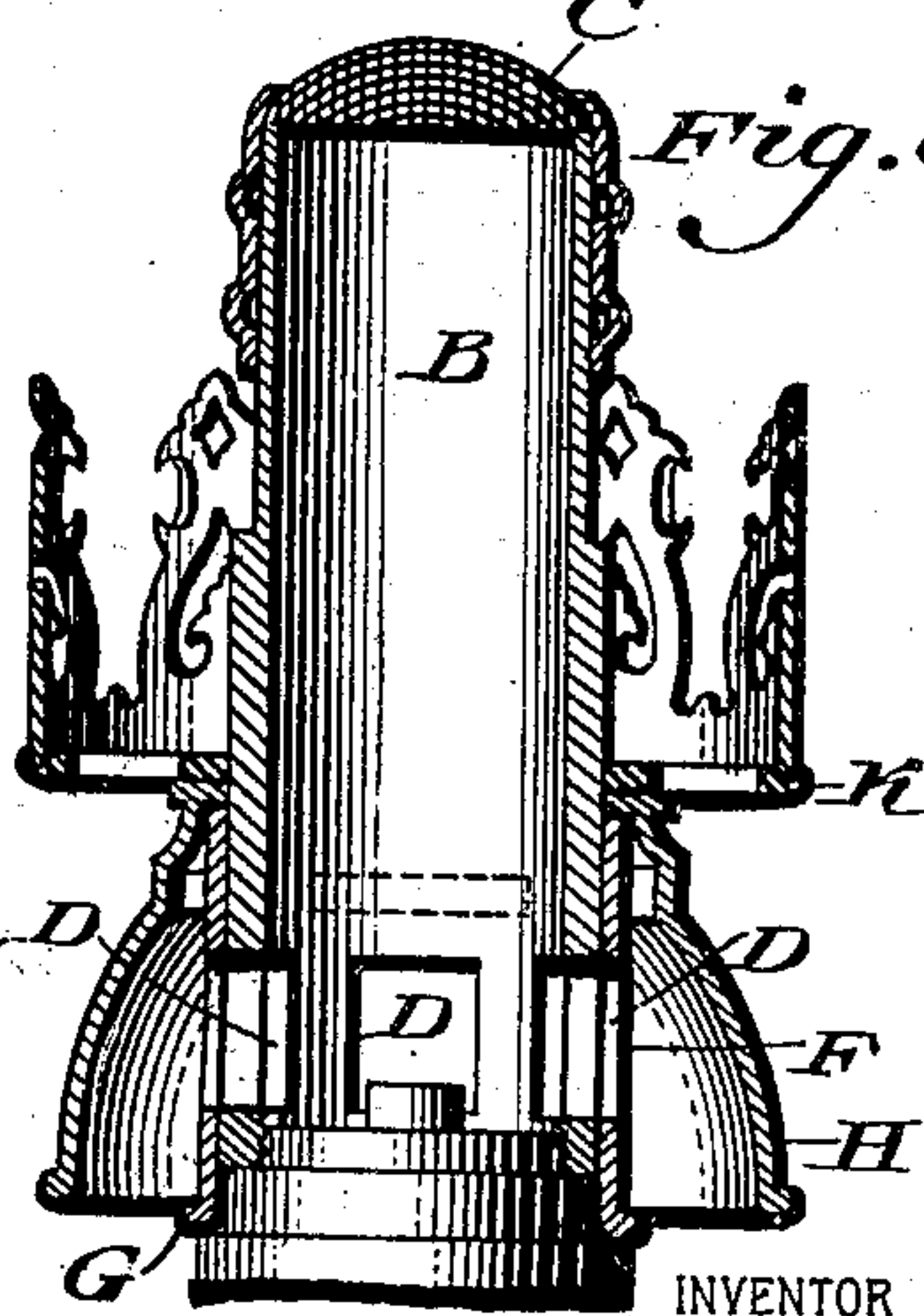


Fig. 5.



WITNESSES:

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INCANDESCENT LAMP.

SPECIFICATION forming part of Letters Patent No. 624,265, dated May 2, 1899.

Application filed May 17, 1898. Serial No. 680,903. (No model.)

To all whom it may concern:

Be it known that I, AUGUST TILLMES, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Incandescent Lamps, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an improvement in an incandescent lamp embodying a gas and air mixing chamber, a valve therefor, and means for supporting the air-supplying hood or collar, the novel features thereof, as hereinafter described, producing a simple, compact, and inexpensive device.

Figure 1 represents a side elevation of a gas-lamp embodying my invention. Fig. 2 represents a vertical section thereof. Fig. 3 represents a perspective view of a detached portion thereof. Fig. 4 represents a side elevation of another form of my invention. Fig. 5 represents a vertical section thereof.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates the gas-chamber of the lamp, and B designates the mixing-chamber, which is supported thereon and has the gauze cap C on its top, the lower portion of said chamber B having the openings or ports D therein.

E designates a split or divided sleeve forming a valve which freely encircles the lower portion of the chamber B and has openings or ports F therein, the latter being adapted to register with the openings or ports D and to be placed more or less in or entirely out of communication with said openings or ports D for regulating the volume of air admitted into the chamber B, said sleeve or valve resting on the exterior shoulder G of the chamber A, whereby it is supported.

H designates a hood or collar which encircles the valve E and is formed with the horizontally-extending shoulder J, whose under face rests on the upper edge of said valve, said edge acting as a shoulder, whereby said collar is suspended and supported, it being noticed that the bottom of said collar is open, so as to admit air to the ports D and F, and consequently into the chamber B. The up-

per face of the shoulder J forms a support for the central portion of the gallery K, which portion is somewhat elevated and has its upper end inturned, forming the horizontal flange M, which rests on the upper edge of the collar H as an auxiliary shoulder and additional support for the gallery, said flange, when so desired, being also supported on the shoulder M' on the outer wall of the chamber B, so that the gallery is sustained in a most effective manner both at its base and top, it being noted that the hood or collar and the gallery are stationary in their support and so remain immovable during the operation of the rotary sleeve, the latter being split for convenience of applying it to the chamber B with the proper extent of closing thereon.

Connected with the valve E is the pin N, which projects laterally therefrom and passes freely through the segmental slot P in the wall of the collar A, thus providing a handle for conveniently operating said valve in order to regulate the volume of air admitted into the chamber B, as has been stated, it being noticed that gas and air are intermixed in said chamber and burned at the cap C, producing a superior flame which is transmitted to a mantle.

Owing to the support of the valve E on the gas-chamber and the support of the air-supplying collar H on said valve the relative parts of the burner will be found to be of simple, compact, and inexpensive construction.

If desired, the lower end of the valve E may have a pin or handle connected with it for operating the said valve, the same being located below the collar H, the open bottom of the hood permitting the motion of the handle, so that in either case the sleeve may be rotated.

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

1. In a lamp, a mixing-chamber, a sleeve around the same, each being provided with a port and an air-supplying hood surrounding said sleeve and having inturned and outturned shoulders, the inturned shoulder resting on a shoulder on said sleeve, in combination with a gallery having its base supported on the outturned shoulder of said hood, and

provided at the top with an inturned shoulder which is supported on an auxiliary shoulder on said hood.

2. In a lamp, an air-directing device around
5 the gas and air mixing chamber, a sleeve intermediate of said chamber and device and encircling said chamber and a gallery having its base supported on a shoulder on said de-

vice, said gallery having at its upper end, an inturned flange which is supported on the top 10 of the air-directing device, the latter depending from and being supported on said sleeve.

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Witnesses:

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