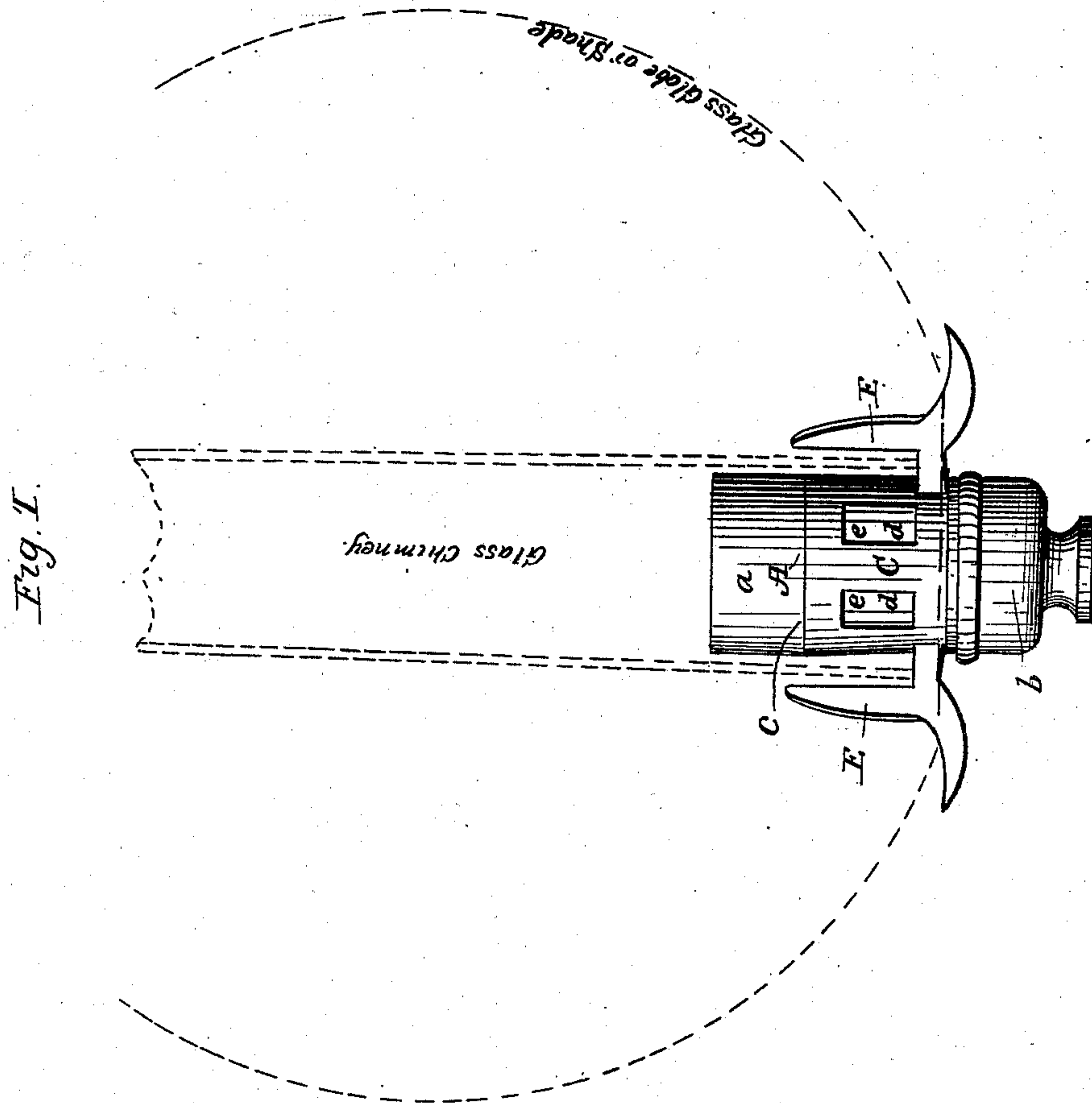
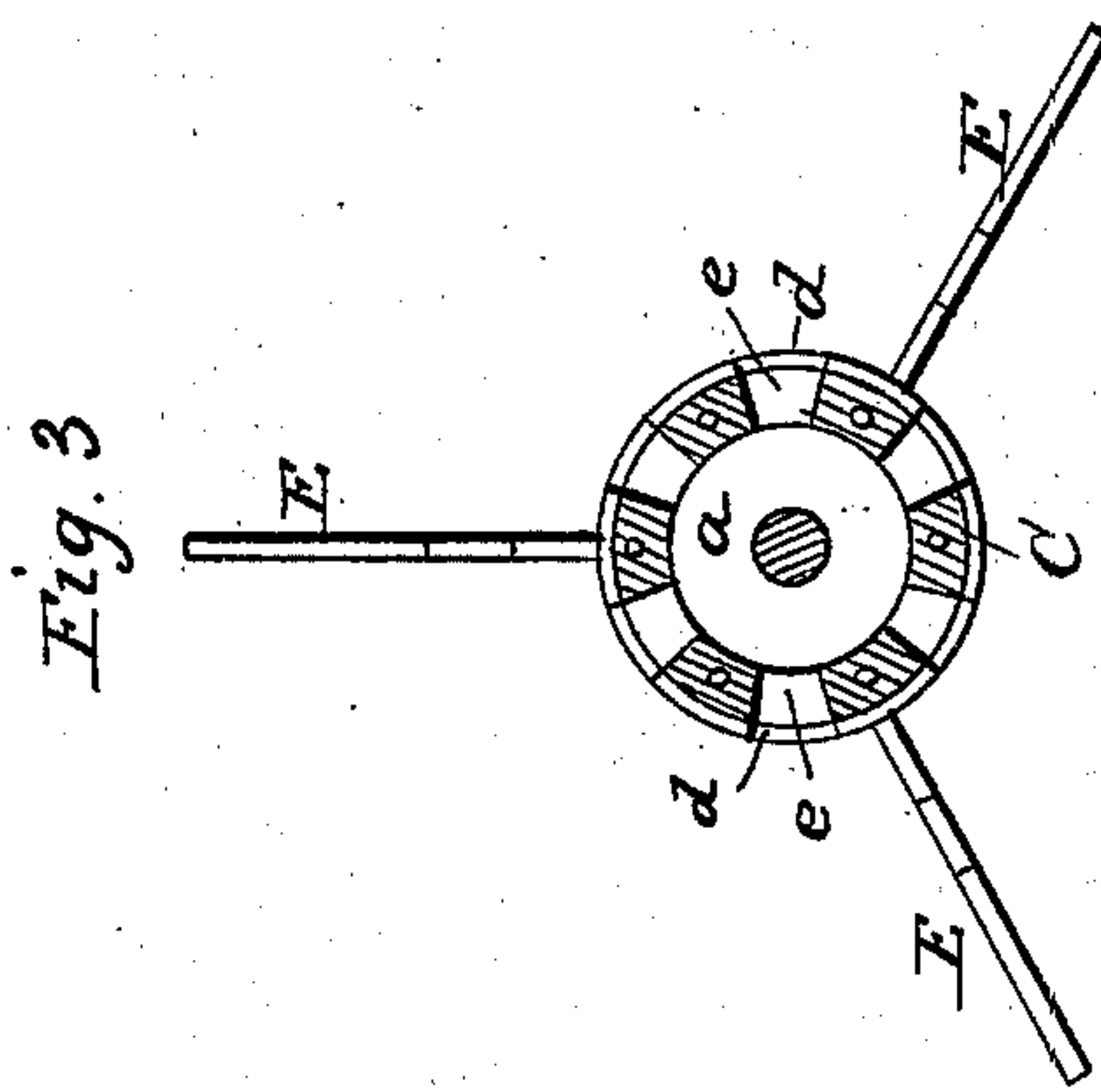
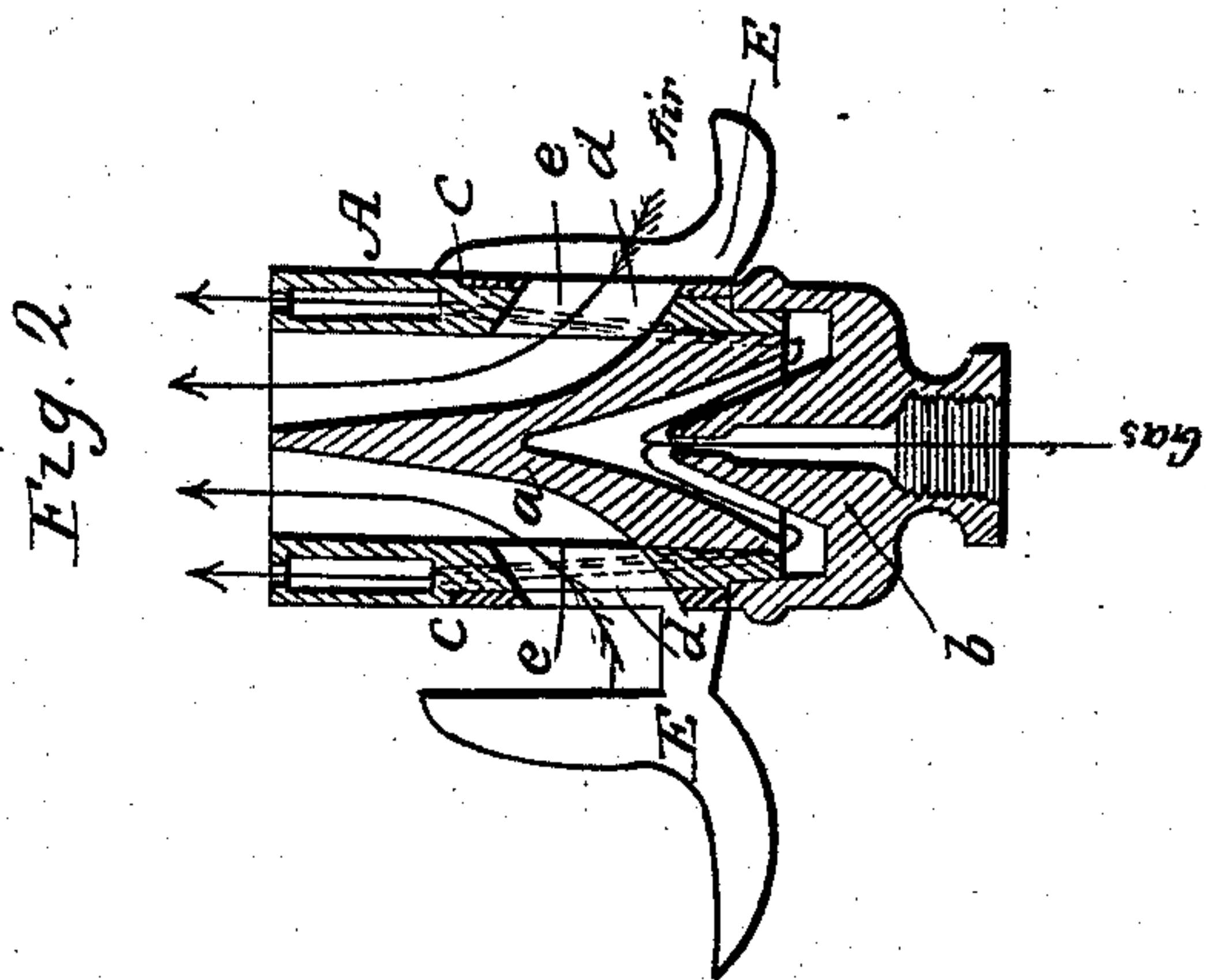


C. H. JOHNSON.
Gas Burner.

No. 17,132.

Patented April 21, 1857.



UNITED STATES PATENT OFFICE.

CHARLES H. JOHNSON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO C. H. JOHNSON AND
J. G. HAMBLIN, OF SAME PLACE.

ARGAND GAS-BURNER.

Specification of Letters Patent No. 17,132, dated April 21, 1857.

To all whom it may concern:

Be it known that I, CHARLES H. JOHNSON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Argand Burners; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, is a side elevation, Fig. 2, a vertical and central section of one of my improved burners, and Fig. 3, a horizontal section, taken through its air inlets.

In the said drawings, A, exhibits an Argand gas burner constructed so as to have its cylindrical part or body, *a*, screw into the lower or bottom part, *b*, and be provided at some distance above said bottom with a shoulder, *c*, extending around it as shown in the drawings. The said part *a*, has, below the said shoulder, a series of rectangular or other proper shaped openings or air inlets *e, e, e*, made through it. Corresponding holes or passages *d, d*, are formed within a tube C, which surrounds the outside of the burner, between the said shoulder and the bottom, *b*, and rests and turns freely on said bottom. This tube should so fit to the burner as to be capable of being freely turned around on the same and of serving as a register or valve to the several air inlets *e, e, e*, of the said burner. The series of brackets E, E, for supporting the glass chimney, and globe or shade of the burner are made to directly extend from the tube C, as shown in the drawings, and thus when the chimney and globe are in place on the brackets, the admission of air into the burner may be regulated by laying hold of the globe, and turning it, the brack-

ets, and the tube C, bodily, or together around the burner, the weight and friction of the globe on the brackets sufficing to cause the tube to revolve with the globe. It is well known that a too rapid internal current of air operates to depress the flame of an Argand burner and thereby diminish the light thereof. As the amount of light depends in a great measure on the height of the flame, it cannot fail to be observed how important it is to have connected with the burner, a means of regulating the admission of air to the inner surface of the flame. Constructing a burner with such an appliance is not however, new, nor does it constitute the subject of my invention. I therefore do not claim applying an air regulator or series of valves to the orifices for admitting air into the inner tube of an Argand burner; nor do I claim separately therefrom, supporting the globe and chimney brackets by a tube encompassing the burner or outside tube thereof, but

What I do claim is—

The improvement of constructing, the supporting tube of the brackets, so that it may not only sustain such brackets or have them extended from it as described, but at the same time admit the register to be operated by simply laying hold of and turning either the globe or chimney when the friction thereof on the brackets may be sufficient for the purpose.

In testimony whereof, I have hereunto set my signature.

CHARLES H. JOHNSON.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.