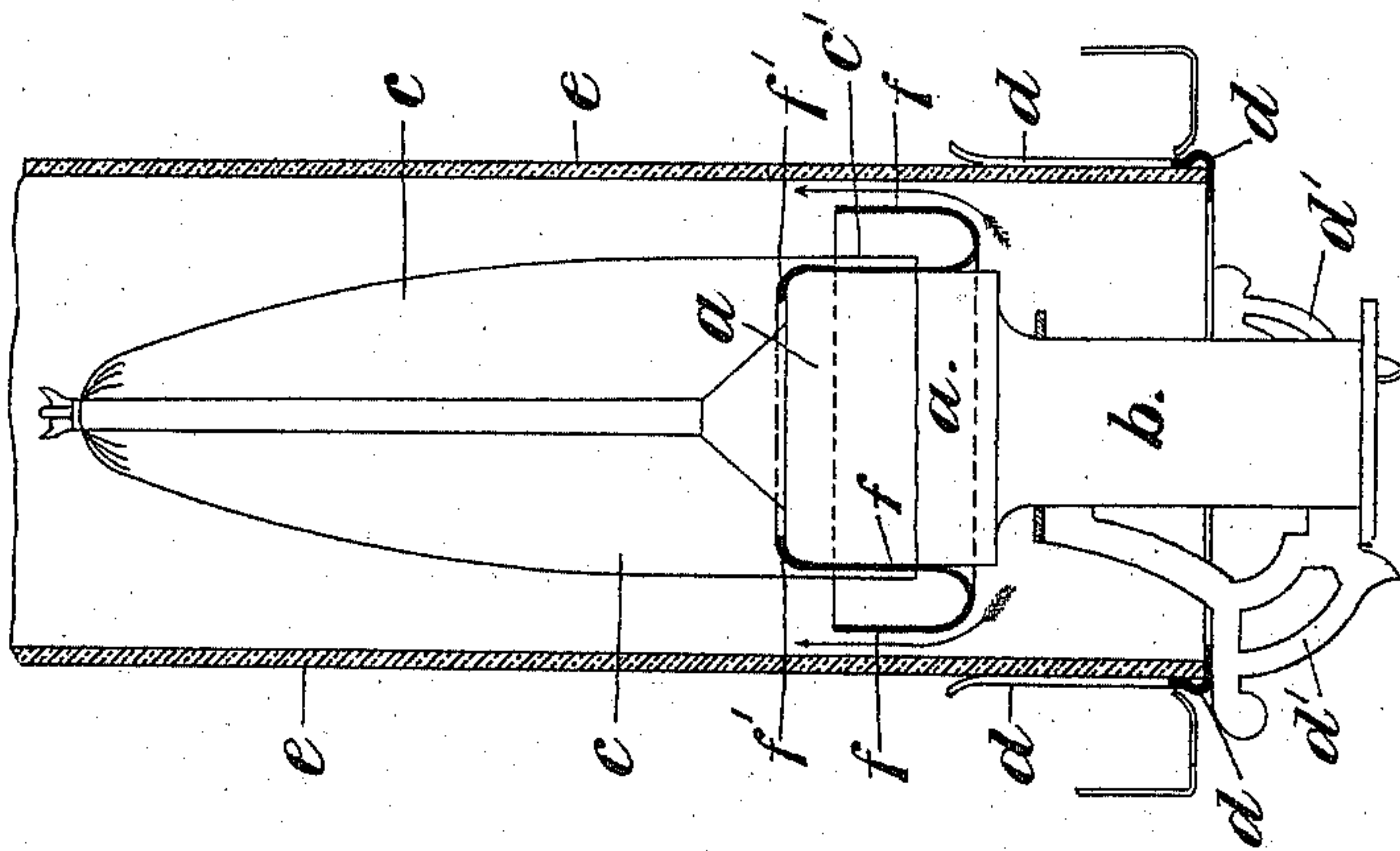


(No Model.)

H. TEE.
INCANDESCENT GAS LAMP OR BURNER.

No. 575,441.

Patented Jan. 19, 1897.



Witnesses.

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UNITED STATES PATENT OFFICE.

HARRY TEE, OF LIVERPOOL, ENGLAND.

INCANDESCENT GAS LAMP OR BURNER.

SPECIFICATION forming part of Letters Patent No. 575,441, dated January 19, 1897.

Application filed November 30, 1895. Serial No. 570,654. (No model.) Patented in England January 25, 1894, No. 1,605.

To all whom it may concern:

Be it known that I, HARRY TEE, a subject of the Queen of Great Britain and Ireland, residing at Liverpool, in the county of Lancaster, England, have invented new and useful Improvements Connected with Incandescent Gas Lamps or Burners, (for which I have received a patent in Great Britain, No. 1,605, dated January 25, 1894,) of which the following is a specification.

This invention has reference to incandescent gas lamps or burners, and to that kind of such lamps or burners in which a network mantle or hood, made of matter incombustible at the temperature of an ordinary Bunsen burner burning ordinary hydrocarbon gases, is heated to incandescence by the flame of a Bunsen burner burning within said mantle or hood; and the primary object of this invention is to provide such an improvement or improvements in connection with said lamps or burners as shall give to the mantle or hood a longer life than they have at present.

In lamps or burners of the above kind, that is, lamps with a central Bunsen burner and a chimney or cylindrical part about said burner-head, it is found that damage, commencing at the lower edge, is caused to such mantle or hood and its shape and size altered and life shortened. According to this invention the defect is obviated, and this is done by so making the burner or lamp as to preclude air from acting on such lower edge, which I find now takes place in incandescent lamps or burners. I find that by so constructing, forming, or arranging these parts the edge of the mantle or hood is not damaged or destroyed, nor is the mantle put out of form or shape or its size so much altered, as happens under ordinary circumstances at present.

A further purpose and effect of my improvements are to enable incandescent lamps or burners wherein mantles or hoods are used to give out practically the same light after they have been used a considerable time as they do when new, per unit of gas used.

The drawing represents a lamp or gas burner

of the ordinary type provided with my improvements.

a is the burner-head, and *b* a smaller tubular portion thereof, which, under the ordinary construction, slides over a Bunsen-burner tube. The head portion *a* in this case is the same diameter throughout its depth.

c is the mantle, and *d* is the gallery supporting the chimney *e*, it being carried from the tubular part *b* by the brackets *d'*. In this case the means employed to effect the ends and purposes of the invention above specified, in connection with the mantle *c*, consists of an annular trough-shaped device *f*, fitting over the burner-head *a*, within which the lower edge at *c'* of the mantle lies when in place. The device *f*, in this instance, is shown to be supported by its upper edge *f'* being turned over inward and resting upon the upper rounded edge of the burner-head, over which it is adapted to slide freely or with an easy or loose fit. As regards the action of this construction, air enters the chimney past the device *f* between its outer wall and the chimney. Such air is therefore prevented from acting upon the lower edge *c'* of the mantle, and this edge, being disposed in the annular space within the drawing *f*, remains undisturbed, and consequently no detrimental or destructive action due to the flow action of air or gas thereon can take place.

What is claimed in respect of the herein-described invention is—

In combination, the burner-head *a*, the mantle supported therefrom and an annular trough-shaped device *f*, loosely fitting the burner-head, the trough-shaped lower portion inclosing the lower edge of the mantle, substantially as described.

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

HARRY TEE.

Witnesses:

ERNEST R. ROYSTON,

FREDERICK JOHN CHEESBROUGH.