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Patented Dec. 29, 1908.



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# UNITED STATES PATENT OFFICE.

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## INVERTED INCANDESCENT GAS-BURNER.

No. 907,976.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, AUGUSTINE LOUIS DUNPHY, a subject of the King of Great Britain and Ireland, residing at The South Metropolitan Gas Company, East Greenwich, county of Kent, England, have invented certain new and useful Improvements in Inverted Incandescent Gas-Burners, of which the following is a specification.

10 This invention relates to improvements in inverted incandescent gas burners and has for its special objects an improved construction and arrangement whereby the glass chimney or globe may be effectually locked, thereby  
15 preventing all wobbling or shaking of said chimney or globe and the provision of a simple and efficient means whereby the placing of the globe in position may be effected.

The burner consists of a tube, with a bend  
20 in it, of refractory material having a nozzle with lugs to receive the mantle and a back flange to receive the chimney or globe which is of spherical or other shape with an opening at top and bottom and in its side for fixing  
25 ing to said back flange. The underside of the bent tube is provided with a projection adapted, when the chimney or globe is being placed in position, to come into contact with the inner wall of the chimney or globe and to  
30 thereby prevent the chimney or globe from coming into contact with the mantle.

Referring to the accompanying sheet of drawings:—Figure 1 is a front elevation; Fig. 2 is a vertical section; and, Fig. 3 an  
35 end view of an inverted burner having its back flange arranged in a vertical position. Fig. 4 is a plan view thereof. Figs. 5 and 6 are side views, illustrating the burner having its back flange arranged at an angle to the  
40 horizontal, the chimney or globe being shown in its locked position.

Like letters of reference indicate corresponding parts in the several views.

In said drawings *a* is the bent tube and *b*  
45 the back flange which may be arranged in a vertical position as in Fig. 1, or inclined as in Figs. 5 and 6. To connect the back flange *b* with the neck *c* of the chimney or globe *d* the back flange *b* is provided with an arched  
50 shaped groove *e*, the top of said arch being arranged vertically so that when the neck of

the chimney is passed over the front flange *f* and rotated the top edge *g* of the elliptical opening of the chimney will rest upon said arch-shaped groove *e* at *h*, while the sides of  
55 the elliptical opening will be securely held between the flanges *f*, *b* and the bottom *f'* of the groove *e*, when openings *c'*, *c''* in the chimney are vertically one above the other, this construction preventing any shaking of the chim-  
60 ney or globe when in position.

To assist in placing the chimney or globe in position the underside of the bent tube *a* is provided with an extension or lug *m* against which the edge of the elliptical open-  
65 ing in the neck of the globe or chimney engages, said lug or extension being used as a pivot point to assist in the turning of the globe or chimney while serving as a means to prevent the chimney or globe encounter-  
70 ing the mantle, thereby damaging the same.

Having now described my invention what I claim as new and desire to secure by Letters Patent of the United States is:—

1. An inverted incandescent gas burner 75 comprising a base, a bent tube carried thereby, said base having a back flange, and an arch shaped groove formed in front of said flange at the upper portion of the base, a globe having an elliptical opening adapted  
80 to engage with the arch shaped groove of the base, and a lug on the under side of the bent tube to act as a turning point to assist in placing the globe in position.

2. An inverted incandescent gas burner 85 comprising a base having a flange and an upper arch shaped portion of smaller diameter than said flange, flanges on each side of said arch shaped portion forming side  
90 grooves between themselves and the rear flange, a bent tube carried by said base and a globe having an elliptical opening adapted to engage with the arch shaped portion and to be held by the flanges.

In testimony whereof I have signed my 95 name to this specification in the presence of two subscribing witnesses.

AUGUSTINE LOUIS DUNPHY.

Witnesses:

JAMES WHITE,  
HERBERT HOLT.