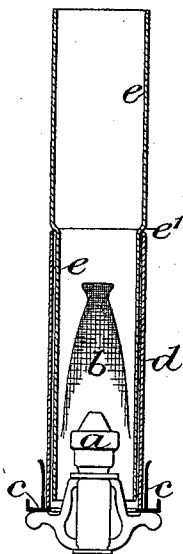


(No Model.)

E. F. W. HIRSCH.
CHIMNEY FOR INCANDESCENT GAS LAMPS.

No. 568,533.

Patented Sept. 29, 1896.



Witnesses:-

George Barry, Jr.
M. E. Fletcher

Inventor:-

Ernst Franz Wilhelm Hirsch
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Rowen Howard

UNITED STATES PATENT OFFICE.

ERNST FRANZ WILHELM HIRSCH, OF RADEBERG, GERMANY.

CHIMNEY FOR INCANDESCENT GAS-LAMPS.

SPECIFICATION forming part of Letters Patent No. 568,533, dated September 29, 1896.

Application filed March 26, 1895. Serial No. 543,191. (No model.)

To all whom it may concern:

Be it known that I, ERNST FRANZ WILHELM HIRSCH, of Radeberg, in the Kingdom of Saxony, German Empire, have invented certain new and useful Improvements in Chimneys for Incandescent Gas-Lamps, of which the following is a specification.

In all gas-lamps having destructible incandescent materials or bodies, such, for instance, as mantles, it is of great advantage either to avoid the removal of the chimney for the purpose of cleansing at any time, except when the mantle has to be renewed, or else to be able to remove it in such a manner that the mantle is not liable to be injured.

The object of the present invention is to provide for the removal of the chimney without shaking or disturbing the mantle or incandescent body. This object is attained by means of a glass tube which is so held within or supported by the lamp-gallery or chimney-holder as to surround the incandescent material and to which the chimney is so adapted that it can be inserted thereinto and removed therefrom while the said tube remains undisturbed, the said tube during such insertion and removal forming such a guide to the chimney that there will be no disturbance of the incandescent material.

The invention is illustrated in the accompanying drawing, which represents an elevation of an incandescent gas-lamp having my invention applied, the gallery or chimney-holder, the chimney, and the guide-tube being shown in section.

a designates the burner, *b* the mantle of incandescent material, and *c* the gallery or chimney-holder affixed to the burner below the mantle. These may all be of any known or suitable construction.

d is the glass guide-tube supported in the

gallery or chimney-holder, in which it is firmly held concentric with the mantle.

e is the chimney, which is so fitted into the said guide-tube as to be kept centered therein and around the mantle *b*, but capable of easy insertion into and removal from the said tube. The chimney is represented as having the upper part, which projects above the guide-tube, sufficiently larger than the part which enters the said tube to form a shoulder *e'* to rest upon the top of the guide-tube, the chimney being thus supported upon the guide-tube. The part of the chimney within the guide-tube extends downward to or nearly to the gallery or holder *c*.

When it is desired to remove the chimney for cleaning and to replace it after cleaning, either operation can be performed without any disturbance of the incandescent material. While the chimney is in place, it forms a protection to the guide-tube against the soiling action of the gas-flame, and hence the guide-tube will seldom, if ever, be required to be removed.

What I claim as my invention is—

The combination of a glass tube for guiding and holding a lamp-chimney, and a chimney which is provided with a shoulder to support it on said tube and the portion of which below its said shoulder is received removably within said tube and extends approximately to the bottom of said tube so as to protect the latter from the soiling action of the flame, substantially as herein described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ERNST FRANZ WILHELM HIRSCH.

Witnesses:

GEORG RICHTER,

WILHELM WIESENHÜTTER.