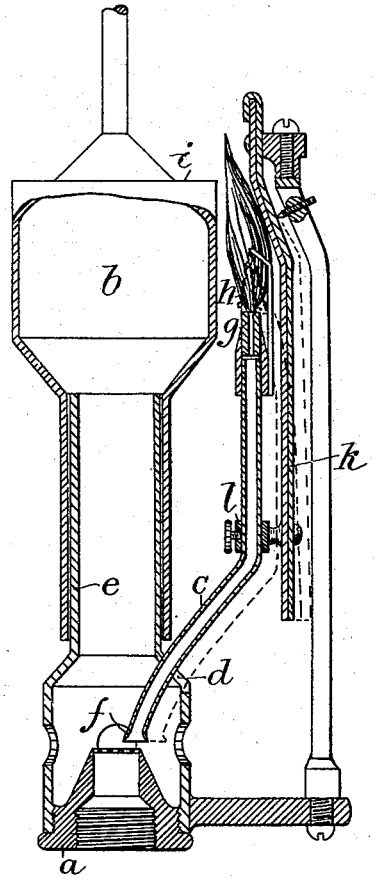
No. 676,174. Patented June 11, 1901.

R. BEESE.

SELF IGNITING ATTACHMENT FOR GAS BURNERS.

(Application filed Jan. 25, 1901.)

(No Model.)



Witnesses.
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RICHARD BEESE, OF DRESDEN, GERMANY.

SELF-IGNITING ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 676,174, dated June 11, 1901.

Application filed January 25, 1901. Serial No. 44,743. (No model.)

To all whom it may concern:

Be it known that I, RICHARD BEESE, a subject of the King of Saxony, residing at 13 Gluckstrasse, Dresden, Kingdom of Saxony, German Empire, have invented a new and useful Self-Igniting Attachment for Gas-Burners, of which the following is a specification.

The present invention consists of a new and improved self-igniting attachment for gas-burners, of which the following description forms the specification.

The accompanying drawing illustrates a vertical sectional view of an automatic self-igniter embodying my invention.

The invention consists of a tube *c*, having its lower end obliquely passing through a slot *d*, formed in the wall of a Bunsen burner mounted on a gas-pillar *a*, and which lower end *f* of tube *c* when no flame is burning projects partially over gas-channels formed in the said pillar. This tube *c* is mounted by a suitable clamp *l* on an actuating compound metallic plate *k*, formed, as shown, of two plates. The upper end of tube *c* carries the igniting-body *g*, having the self-igniting platinum threads *h* thereabove and over which the gas flowing from the channels in pillar *a* through tube *c* passes, thereby causing the same to ignite, forming a small flame adjacent to the main burner *i*, in which the main flame is now ignited. The heat then radiated causes the bimetallic plate *k*, mounted at its upper end to a suitable support attached to the gas-pillar, to bend and assume approximately the position shown in dotted lines in the drawing and carry with it tube *c*, so that its lower end *f* is withdrawn, as also indicated by dotted lines, from over the gas-pillar channels and the flow of gas therethrough consequently checked. The supply of gas to the igniter pipe or passage is thereby automatically cut off after the gas at the main burner has been ignited. After having extinguished the small flame the bimetallic plate remains deviated by the radiation of the main flame. When the main light is turned off, plate *k*, rapidly cooling, restores tube *c* to its original position in readiness for its next operation.

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

A new and improved self-igniter for gas-burners consisting of a tube having its end partially projecting over a gas-pillar, a self-igniting mass in the upper end of said tube, adjacent to the burner and an actuating metallic plate carrying said tube and adapted when subjected to the heat of said flame to so move as to withdraw said tube's end from above said pillar for the purpose of cutting off the flow of gas then passing therethrough and over said mass substantially as described.

RICHARD BEESE.

Witnesses:
HERNANDO DE SOTO,
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