

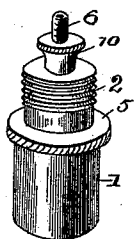
(No Model.)

J. B. ALTMANN.  
GAS BURNER ATTACHMENT.

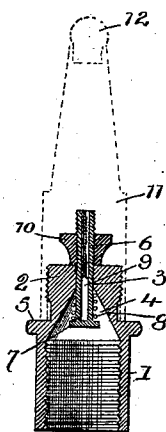
No. 549,880.

Patented Nov. 12, 1895.

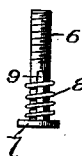
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN B. ALTMANN, OF PHILADELPHIA, PENNSYLVANIA.

## GAS-BURNER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 549,880, dated November 12, 1895.

Application filed October 16, 1893. Serial No. 488,325. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. ALTMANN, a citizen of the United States, residing in Philadelphia, and State of Pennsylvania, have invented a new and useful Apparatus and Improvement in Gas-Burners, and which the drawings and the following specification will more fully present and explain.

This invention relates to gas-burners, and has for its object to provide a device of the character set forth which will save the consumption of gas and produce a more satisfactory and efficient flame.

With these and other objects in view the invention consists of the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a gas-burner embodying the invention. Fig. 2 is a central transverse section of the same. Fig. 3 is a detail elevation of the hollow tube employed in connection with the device and having a coiled spring thereon.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

Referring to the drawings, the numeral 1 designates a cylindrical sleeve having an upper extension or tap 2, which is supplied with a central bore 3, communicating with a lower conical enlargement 4 above the screw-thread in the sleeve 1. Below the upper extension or tap 2 is a shoulder 5. Through the sleeve 1 and upward through the bore 3 of the extension or tap 2 is passed a hollow tube 6, having a lower flanged or flattened head 7, between which and the upper portion of the conical enlargement 4 a coiled spring 8 is confined, the latter surrounding the lower portion of the said tube. The said tube 6 is slotted near its base, as at 9, to form means of communication with the bore of said tube and the in-

terior of the sleeve 1. The upper part of the said tube 6 is screw-threaded, and thereon is adjustably mounted a thumb or adjusting nut 10, by means of which the said tube may be raised or lowered in the tap or extension, and consequently close or expose a greater or less portion of the said slot 9, and consequently increase or decrease the feed of the gas or to primarily regulate the burner.

Over the tap 2 is adapted to be mounted a cap 11, which holds a tip 12, as shown in dotted lines, the said cap covering the said tap 2 and the adjusting-nut, as well as the exposed portion of the tube 6.

It will be understood that the adjustable tube 6 provides means for adapting the burner to various pressures, and blowing of the gas through the burner without consumption of the same is avoided.

Having thus described the invention, what is claimed as new is—

In a gas burner, the combination with a lower sleeve adapted to be fitted upon a feed pipe, having a central annular flange and an upper extension adapted to receive a pillar, the said sleeve further having along its inner surface a tapering bore leading upwardly to a central circular opening, a threaded tube adapted to fit this central opening closed at the lower end by a flanged head and having a series of elongated slots therein above said head, a coiled spring surrounding the lower portion of said tube, abutting against said flanged head and urging said tube normally downward, and an adjusting nut fitting the upper end of said tube, substantially as and for the purpose described.

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Witnesses:

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