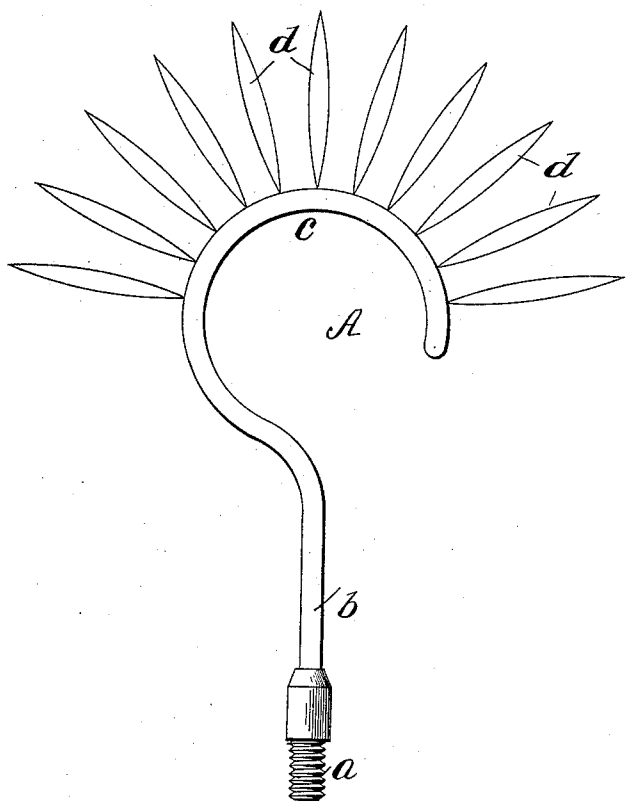
No. 652,141. Patented June 19, 1900.

K. H. RAUPP.

ACETYLENE GAS BURNER.

(Application filed Dec. 30, 1896.)

(No Model.)



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

KARL HEINRICH RAUPP, OF MENTZ, GERMANY.

ACETYLENE-GAS BURNER.

SPECIFICATION forming part of Letters Patent No. 652,141, dated June 19, 1900.

Application filed December 30, 1896. Serial No. 617,469. (No model.)

To all whom it may concern:

Be it known that I, KARL HEINRICH RAUPP, a subject of the German Emperor, residing at Mentz, Hesse, Empire of Germany, have invented certain new and useful Improvements in Acetylene-Gas Burners, of which the following is a specification.

The object of the present invention consists in a burner for acetylene gas, which is characterized thereby that it always burns soot-free.

A tube *b*, of material not attacked by acetylene, such as aluminium, is screwed into the tubular conduit (not shown) by a screw *a*, and has its upper portion bent in the form of a circular arch, which is arranged in a vertical plane, and is perforated along its top with a plurality of small holes, the directions of which diverge by reason of the circular bend of the tube. The flames issuing from the outer wall of the bent part, by means of the small holes provided therein, are directed radially from the center A of the circular arc *c*. Thus the distance between the flame-points *d* is greater than that between the bases *e* of the flames, so that such an abundant supply of air is effected that the flames, even under fluctuation of pressure, burn free from soot.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

A burner for acetylene gas, consisting of a tube having its upper portion bent into the form of a circular arc arranged in a vertical plane, and having a plurality of small holes along its top, the direction of such holes diverging by reason of the circular bend of the tube, substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

KARL HEINRICH RAUPP.

Witnesses:

ALFRED VON DAUBER,

GUSTAV RUTH.