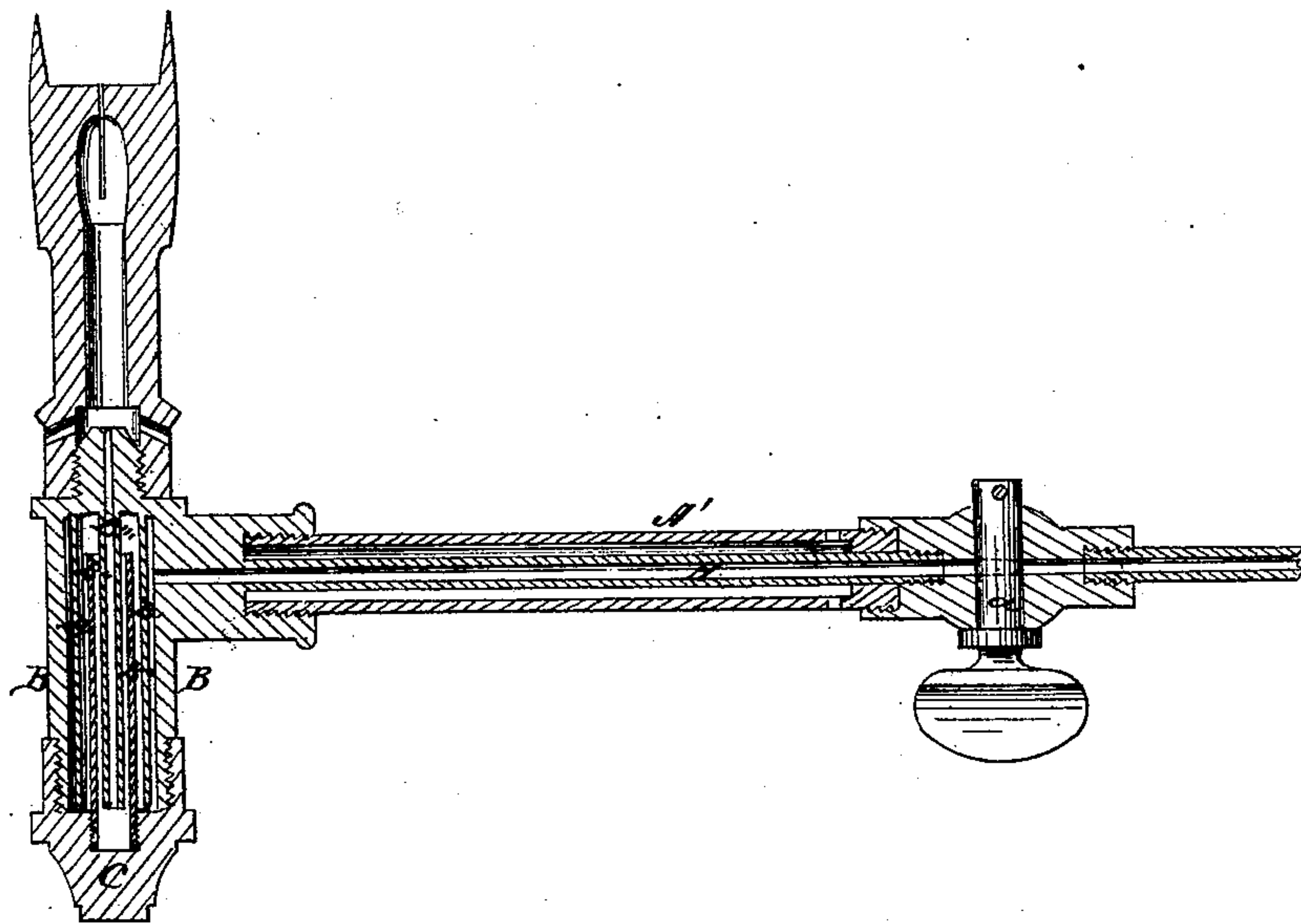


H. SCHMINKE.

Vapor Burner.

No. 100,930.

Patented March 15, 1870.



Witnesses:

Victor Hagmann
C. A. Pettit

Inventor:

H. Schminke
per [Signature] & Co
Attorneys.

United States Patent Office.

HENRY SCHMINKE, OF BALTIMORE, MARYLAND.

Letters Patent No. 100,930, dated March 15, 1870.

IMPROVEMENT IN VAPOR-BURNERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY SCHMINKE, of the city and county of Baltimore, and State of Maryland, have invented a new and improved Gas-Generator for heating and illuminating purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which the drawing is a sectional elevation.

This invention relates to an apparatus intended for burning the vapor generated by heat from any hydrocarbon liquid, such as gasoline, and has for its object to utilize the heat of the burning jet in generating the vapor required to feed the same, and to prevent the impurities of the hydrocarbon from obstructing the flow of the vapor.

In the drawings—

A is a pipe leading out of a reservoir of gasoline or other material whence inflammable vapor may be produced; and

a is the cock that regulates the supply of the liquid.

A' is a pipe inclosing the pipe A, and provided with orifices for the admission of air to the annular space between the pipes, for the purpose of keeping the inner pipe cool.

B is a cylindrical casing attached to the bottom of the burner, into which casing the pipe A opens.

B' is an interior casing, concentric with the casing B, and likewise attached at its upper end to the bottom of the burner.

C is a cup screwed upon the lower end of the casing

B for the purpose of collecting the coal-tar and other impurities that may flow along with the gasoline.

B" is a pipe interior to and concentric with the casing B' said pipe projecting upward from the center of the cup C, and inclosing the tube B"', by which the vapor finds its way to the burner.

There are annular spaces between the casings B and B', the casing B' and the tube B", the tube B" and pipe B'''.

The gasoline flows out of the pipe A down into the cup C. On applying the flame of a lamp or taper to the latter the liquid becomes speedily vaporized, and passes through the casing B', pipe B", and tube B''' to the burner. On lighting the jet at the latter, its heat, being communicated to all the casings and tubes above described, continues the vaporization of the liquid, and does this so effectually that little or none of the latter rises within the second chamber, being previously converted into vapor.

The cup C, may be removed at any time and emptied of its contents.

Having thus described my invention,

What I claim as new and desire to secure by Letters Patent, is—

The combination of the casing B with a series of inclosed casings, pipes, or tubes, as and to the end set forth.

HENRY SCHMINKE.

Witnesses:

G. H. SEMCKE,

H. C. A. SMITH.