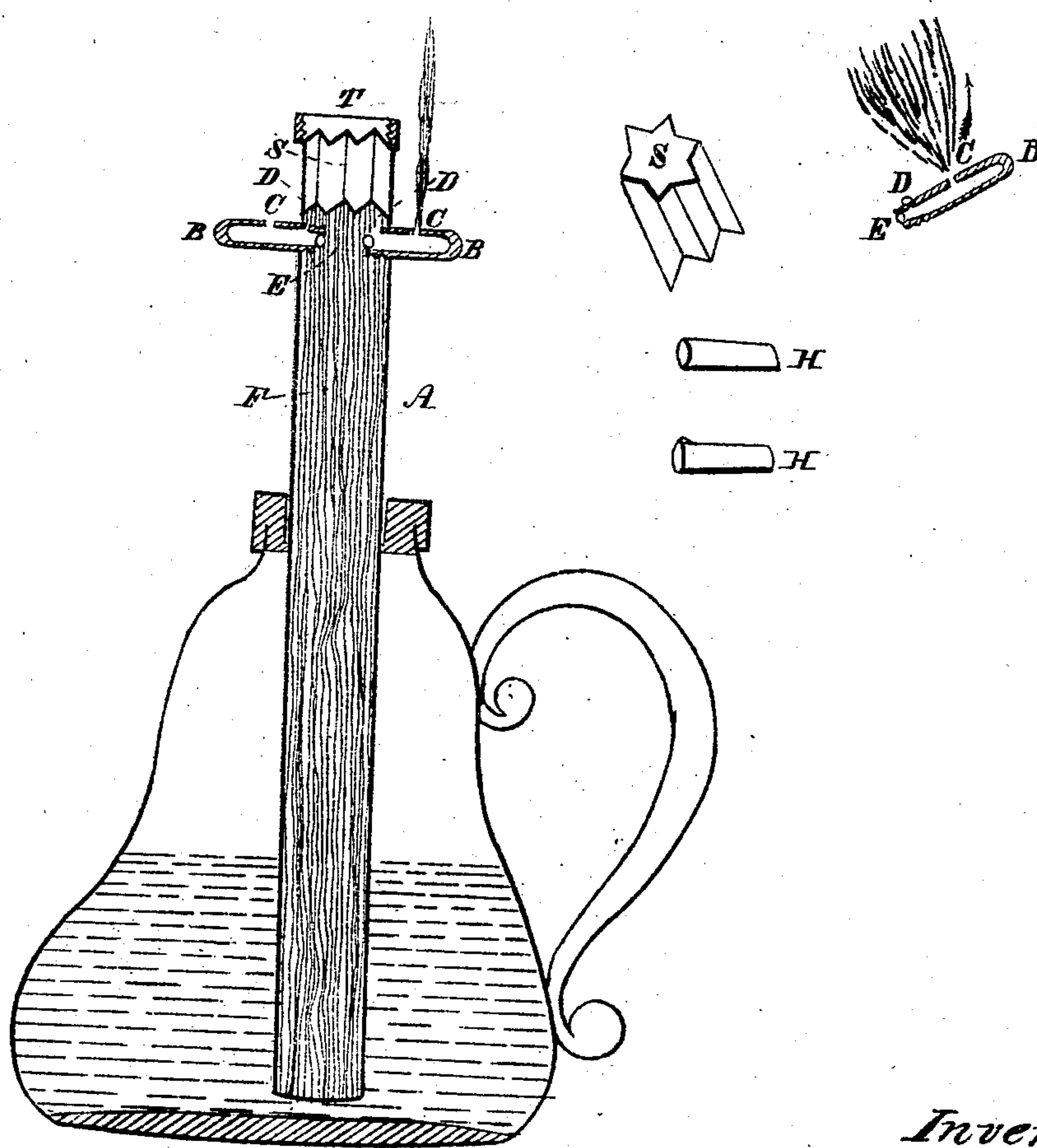


I. SUGGITT,
Vapor Burner.

No. 18,307.

Patented Sept. 29, 1857.



Inventor.
Isaac Suggitt

UNITED STATES PATENT OFFICE.

ISAAC SUGGITT, OF PROVIDENCE, RHODE ISLAND.

HYDROCARBON-VAPOR LAMP.

Specification of Letters Patent No. 18,307, dated September 29, 1857.

To all whom it may concern:

Be it known that I, ISAAC SUGGITT, of Providence, county of Providence, State of Rhode Island, have invented a new and
5 Improved Mode of Burning Hydrocarbons, known as Burning Fluids, for Artificial Illumination; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accom-
10 panying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the upper part of the tube A from which one or more arms or projections B are fitted
15 to the tube A about one inch below the top. The arms or projections B, are drilled hollow and provided with a slit or aperture C, for the escape of vapor to supply the flame, also with a slit or aperture D, to receive the
20 vapor from the tube A in case the ends E of the arms or projections get stopped up with particles of the cotton F. I fit a screwed or a sliding cap H so as to fit onto the arms or projections B, when only one
25 is required burning. I also fit an extra cap H² with a small channel or groove in it for the purpose of liberating a small quantity of vapor to heat the tube A in cold climates when only one light is required

burning, I make the upper part of the tube 30
A rough and of some dark color for the better radiation of heat.

S is a corrugated metal hoop to assist the escape of vapor and prevent the cotton
charring too quick. 35

T is a screwed cap to close up tube A.

Operation: I apply a light to the tube A and hold it till it generates vapor, which when formed will enter D and E and escape
at C and ignite, and will generate a sufficient 40
supply for artificial illumination.

I do not confine myself to place the arms B one inch from the top of tube A, as when there is only one arm it requires to be a little
lower than when two or more arms or pro- 45
jections are made. I do not claim a tube alone, but

I claim—

A tube in combination with arms or pro-
jections B, and corrugated hoop S, substan- 50
tially as set forth, to be used in any container or lamp suitable for the above purpose.

ISAAC SUGGITT.

Witnesses:

PHILIP C. SCOTT,
JOHN SHIELDS.