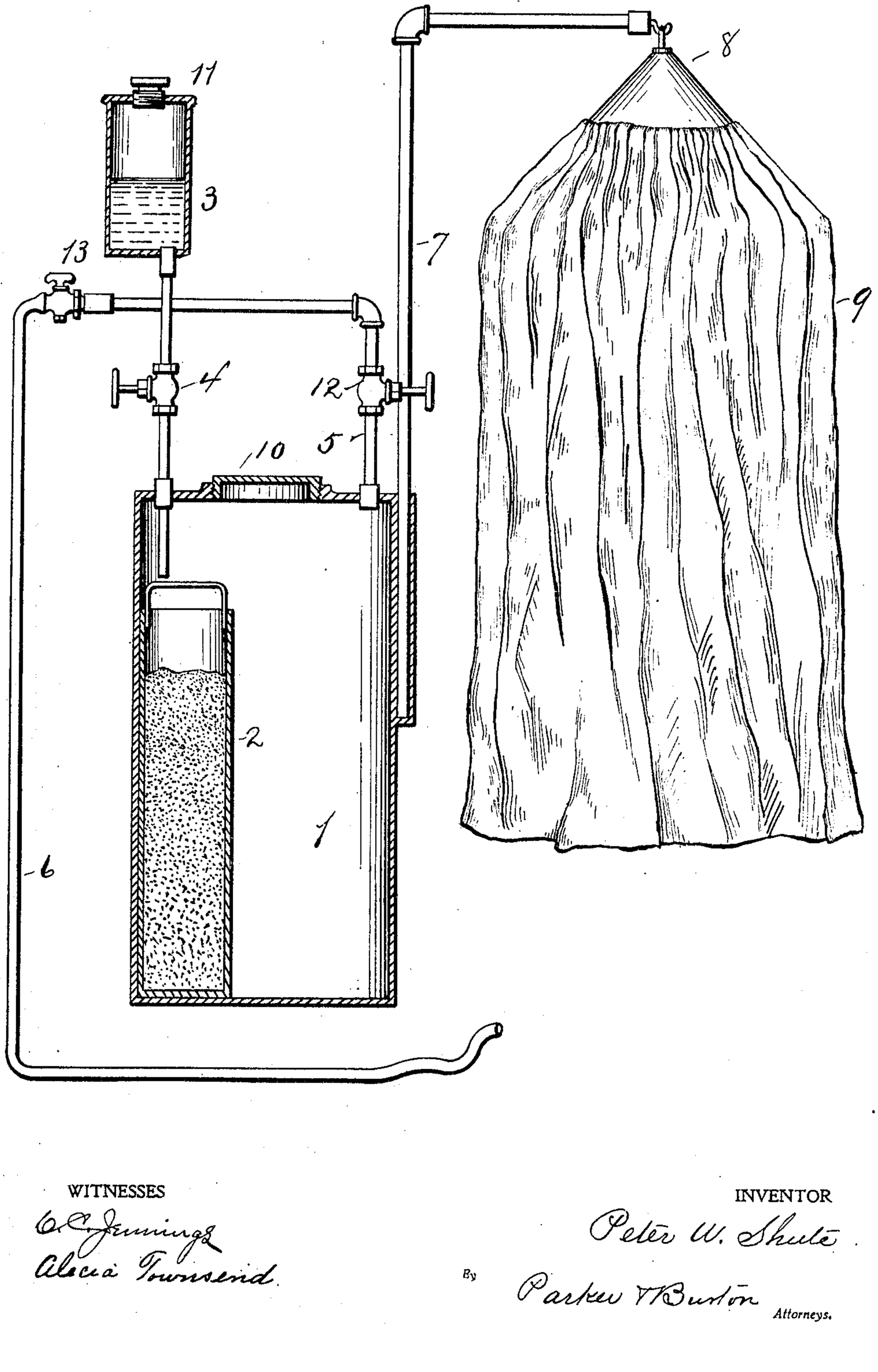
P. W. SHUTE.

INHALER.

APPLICATION FILED DEC. 13, 1907.

912,742. Patented Feb. 16, 1909.



WITNESSES

C. C. Jennings

Alecia Townsend.

INVENTOR

Peter W. Shute.

By Parker & Burton

Attorneys.

UNITED STATES PATENT OFFICE.

PETER WILKES SHUTE, OF WHITE PIGEON, MICHIGAN.

INHALER.

No. 912,742. Specification of Letters Patent. Patented Feb. 16, 1909.

Application filed December 13, 1907. Serial No. 406,273.

To all whom it may concern:

Be it known that I, PETER WILKES SHUTE, citizen of the United States, residing at White Pigeon, county of St. Joseph, State of Michigan, have invented a certain new and useful Improvement in Inhalers, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to inhalers.

It has for its object an improved apparatus for producing and confining a gas to be inhaled for medical purposes.

The gas to be used is one that is set free from a solid by the action thereon of a liquid. Acetylene gas will be mentioned as the one employed as I have found that gas to have beneficial medical effects on some forms of diseases, affecting the nose, throat and lungs.

The drawing shows the generating apparatus in sectional elevation, and the canopy or hood, in perspective.

The main generating tank is indicated at 1. The solid from which the gas is generated (as for example calcium carbid) is contained in a removable receptacle 2, into which the liquid is conducted from a liquid tank 3. The flow of the liquid is controlled by a valve 4. The gas generated is held in the tank 1, from which it is allowed to escape through outlet pipe 5 and a flexible conductor 6. A suitable arm 7 rises from the generating tank 1, and holds a canopy support 8, from which hangs a curtain canopy 9.

The tank 1, is provided with a removable cover 10, through which the receptacle 2, may be inserted and secured. The liquid tank 3, is also provided with a removable cover 11. The outlet 5, is provided with a main or cut-off valve 12, and a regulating valve 13.

The apparatus is preferably made of proper size to place on a table, at which the user can sit and cover his head and the upper part of his body with the curtain of the canopy, and control the flexible tube 6, with one hand, and the valve 13, with the other hand, and thereby regulate to his need, the amount of gas that escapes from the generator.

What I claim is:

1. An inhaler, having in combination a main generating tank, a supplemental tank having an open top removably located therein, said tank occupying but a small portion of the interior of said main tank, means extending into said generating tank from without for directing a flow of water upon the contents of said supplemental tank, means for regulating the speed of flow of the water, an escape pipe leading from the generating tank, a cut-off valve therein, a flexible gas conduit leading from said escape pipe, a canopy supported at one side of the device, within which the free end of the flexible conduit is adapted to extend, and a control valve closely adjacent to the canopy, whereby the flow of vapor from the generating tank may be regulated, substantially as described.

2. An inhaler, having in combination a gas generator, a supporting frame and a canopy depending therefrom at one side thereof, a storage receptacle within said generating tank wherein solids may be held, its interior being open to communication with the interior of said generating tank through its uncovered top, means for introducing from without a supply of water adapted to fall upon the contents of said second tank, means whereby the flow of water may be manually regulated, an outlet pipe adapted to lead from communication with the interior of the generating tank to a point within said canopy, a cut-off valve therein and a controlling valve whereby the flow of vapor through the outlet pipe may be regulated, substantially as described.

3. An inhaler, having in combination an external air-tight tank, an open topped storage receptacle wherein solids may be stored, adapted to be located therewithin, regulatable means for permitting a flow of water thereupon from without, means for conducting away from the external tank the vapor generated by the fall of water upon the stored solids and confined within the tank, a canopy supported from said tank into which the conducting means is adapted to discharge vapor, and means whereby the escape of vapor through said conducting means may be regulated irrespective of the rapidity of its generation, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

PETER WILKES SHUTE.

Witnesses:
H. H. HARDENBERG,
A. W. MURRAY.