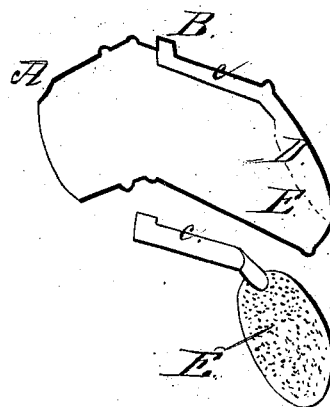
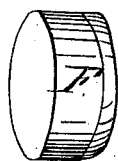
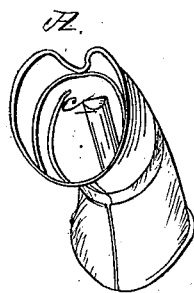
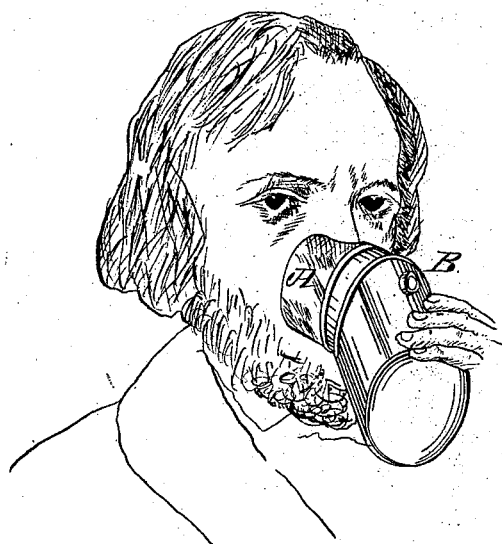


L. Roper.

Inhaler.

N^o 5,850.

Patented Oct. 10, 1848.



UNITED STATES PATENT OFFICE.

LEWIS ROPER, OF PHILADELPHIA, PENNSYLVANIA.

APPARATUS FOR ADMINISTERING ETHER.

Specification of Letters Patent No. 5,850, dated October 10, 1848.

To all whom it may concern:

Be it known that I, LEWIS ROPER, M. D., of the city of Philadelphia and State of Pennsylvania, have discovered a new and useful Manner of Administering the Vapors of Sulfuric Ether through the Respiratory Organs, so as to Procure Insensibility to Pain, to accomplish which I have invented an instrument of a new construction, of which I declare the following is a full and exact description.

My invention consists in making a vessel of metal, porcelain, wood or any other materials capable of holding a sufficient quantity, or more than a sufficient quantity of sulfuric ether to produce insensibility to pain, when administered through the respiratory organs. The mouth of said vessel is so shaped as to fit closely over the mouth and nose of the patient, as represented in the accompanying drawings at Figure A, while the body of the vessel inclines downward and slightly inward, over and in front of the vessel at the point marked B, is an opening of convenient size for the admission of atmospheric air; in connection with which, on the inside of the vessel are one or more tubes as at C, of a corresponding size, for the purpose of conveying the air to a chamber D, situated at the bottom of

the vessel and formed by a perforated plate E, extended across its inner surface. The air being thus admitted through the tube or tubes and chamber into the body of the vessel, unites with the vapors of the ether, (previously held there by means of a sponge) and is conveyed with it through the respiratory organs into the system.

To make the apparatus more convenient and portable while containing ether, a tight cover (represented by F) is provided for the part A, and the aperture B is so arranged as to be securely closed with a cork, cover or screw.

That which I claim as new in my invention and for which I desire Letters Patent, is—

The mouth piece, or the peculiar formation of the upper part of the instrument or vessel above described, fitting closely over the mouth and nose, so as to administer the vapor of ether through these two organs simultaneously, and in combination therewith, the arrangement of the air tube and perforated plate.

LEWIS ROPER.

Witnesses:

JOEL COOK,
E. DURAND.