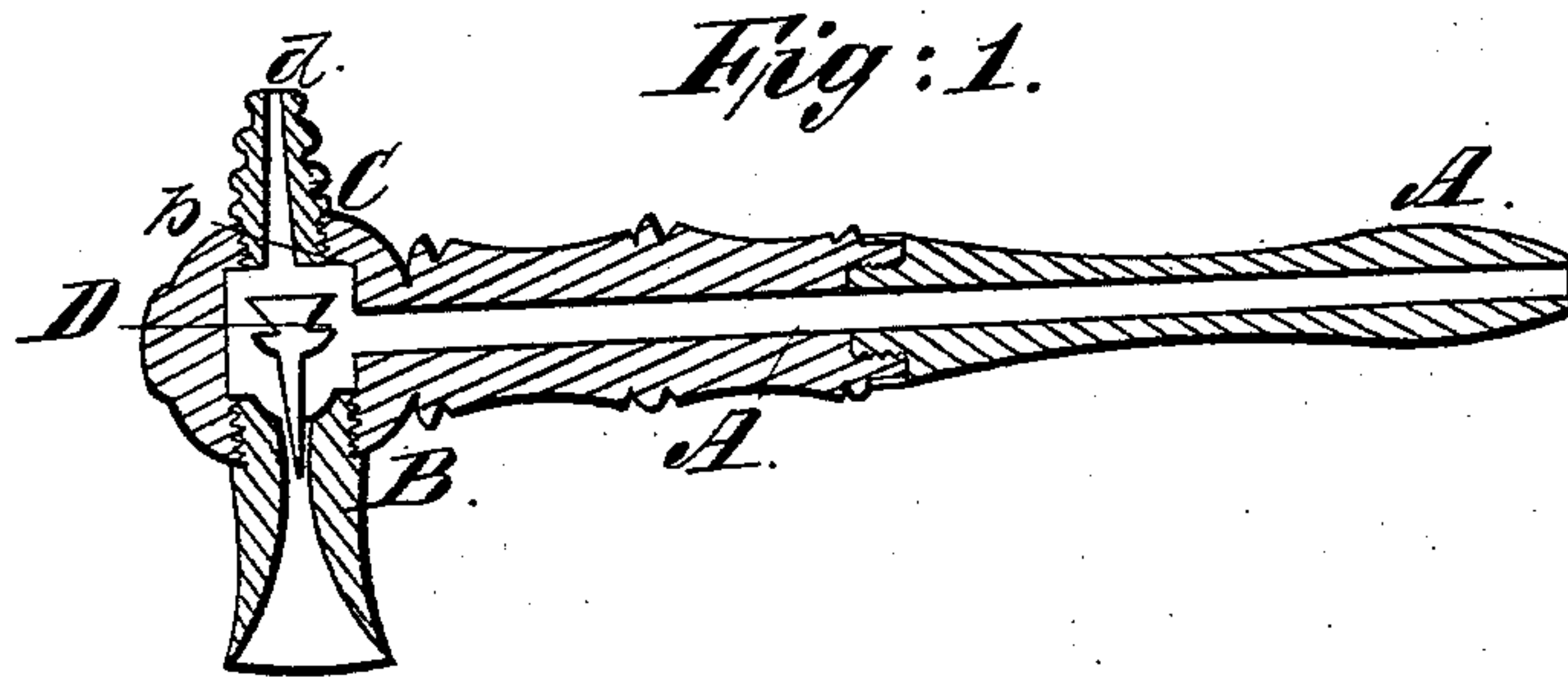


J. S. Rose,

Respirator.

N^o 3,079.

Patented May 8, 1843.



UNITED STATES PATENT OFFICE.

JACOB S. ROSE, OF PHILADELPHIA, PENNSYLVANIA.

BREATHING-TUBE.

Specification of Letters Patent No. 3,079, dated May 8, 1843.

To all whom it may concern:

Be it known that I, JACOB S. ROSE, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful instrument for inflating the lungs and applied the same to the cure of diseases of the lungs, called a "breathing-tube;" and I do hereby declare that the following is a full, clear, and exact description of the construction and mode of operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure I is a transverse section, A, the mouth piece and pipe; B, the cup; C, the nipple; D, the valve.

The pipe and mouth piece are about five inches long, the mouth piece being of ivory about half that length, in form like that of a flageolet. The other end of the pipe is of boxwood and terminates in a box or bulb, the circular cavity of which is about one third of an inch in diameter, and half an inch long and into the lower part of which is inserted by means of a screw the cup (B,) which is of ivory bell shaped and which has an aperture or perforation in its base of about two and a half lines diameter and contains the valve (D) which is also of ivory made to fit the aperture of the cup, and is held in its place by the stillete *a* on one side and the square projection *b* on the other.

Into the upper part of the bulb is inserted by means of a screw the nipple C, which is also of ivory and is perforated by an aperture *d*, there being three of these nipples accompanying these tubes which have apertures, respectively of the diameter of ($\frac{1}{2}$), (11), and $2\frac{1}{2}$ lines in diameter. These tubes

are applied to the cure and prevention of disease in the following manner.

The mouth piece is held in the mouth with the bowl downward, and the patient breathes through the tube no effort being required beyond that of natural respiration. The position in which the bowl is held being such, that at each inspiration the valve will be raised and the orifice enlarged, and at each expiration the valve will fall, forcing the air at each expiration through the small aperture in the nipple. The effect produced is to distend the air cells, free the circulation, and thus facilitate the access of all remedial agents taken by the patients to the diseased part of the lungs when disease has commenced its ravages, and to strengthen and defend them against its attacks, a much greater quantity of air will be received into the lungs at each inspiration through the opening of the valve than can pass out through the small aperture of the nipple at each expiration. On commencing the use of the tubes the nipples with the largest aperture should be used three times a day, continued about five minutes each time gradually increasing to half an hour and changing the nipples.

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

The application of the breathing tube as above described to the cure and prevention of diseases of the lungs and the application of the stillete valve, various sized nipples to the distending of the air cells in the manner hereinbefore described to that purpose.

J. S. ROSE.

Witnesses:

JOHN THOMPSON,
SPENCER C. McCORKLE.