

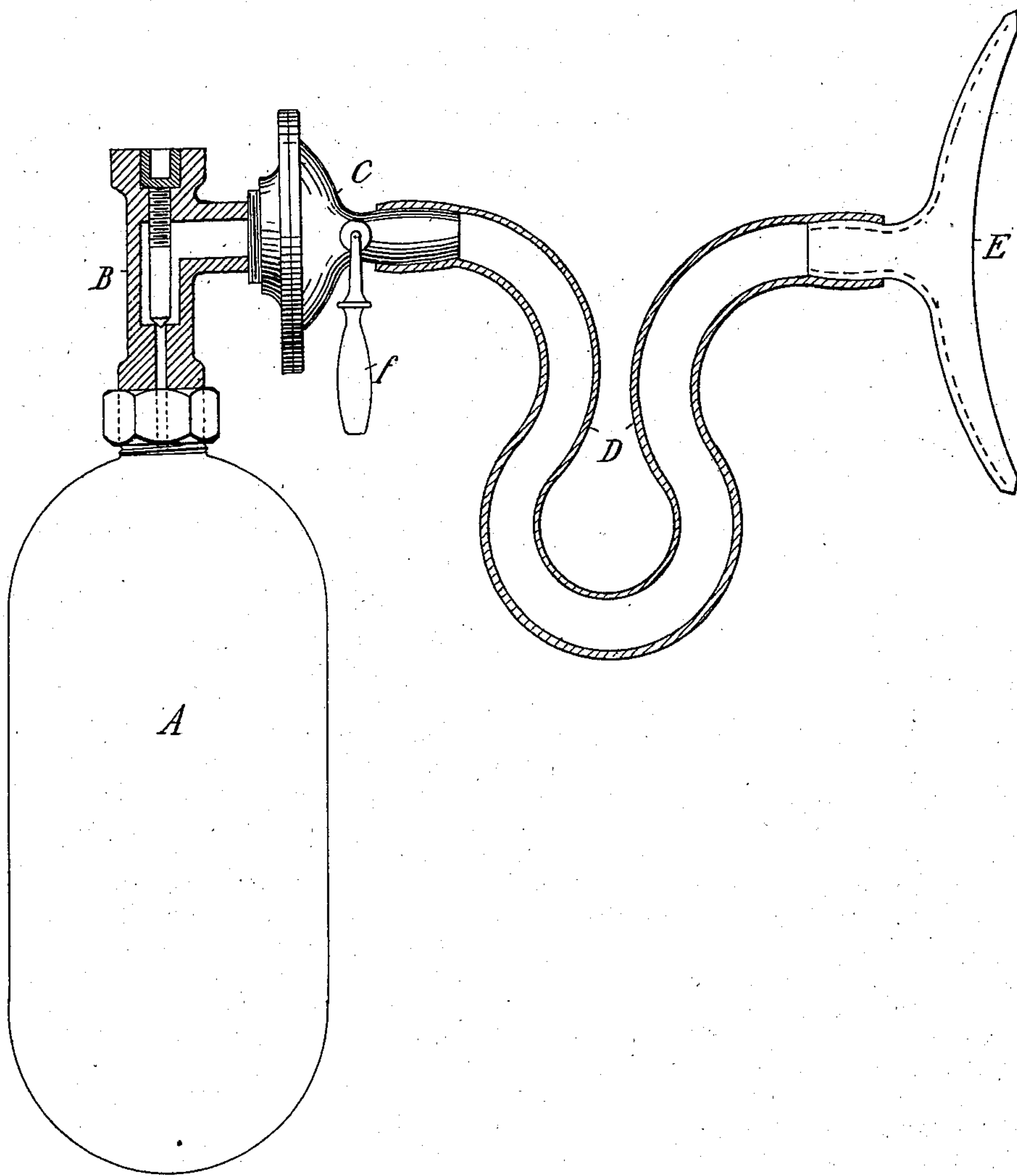
No. 700,232.

Patented May 20, 1902.

J. PLANEUR & L. DUTREMBLAY.  
PORTABLE INHALING APPARATUS.

(Application filed Mar. 18, 1902.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JEAN PLANEUR, OF LYONS, AND LOUIS DUTREMBLAY, OF PARIS, FRANCE.

## PORTABLE INHALING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 700,232, dated May 20, 1902.

Application filed March 18, 1902. Serial No. 98,820. (No model.)

*To all whom it may concern:*

Be it known that we, JEAN PLANEUR, merchant, residing at Lyons, (whose postal address is 1 Grande Rue St. Clair, Lyons,) and  
5 LOUIS DUTREMBLAY, doctor of medicine, residing at Paris, France, (whose postal address is 9 Rue de la Chaussée d'Antin, Paris,) citizens of the Republic of France, have invented certain new and useful Improvements in Portable Inhaling Apparatus, of which the follow-  
10 ing is a specification.

This invention relates to a portable inhaling apparatus which when filled with oxygen is particularly applicable for use on board  
15 ship for diminishing the effects of seasickness.

The apparatus consists, principally, of a steel vessel *a*, which may be of any suitable form and which, for example, as shown in the accompanying drawing, may have the form of  
20 a cylinder. At the upper part of this vessel a tap *b* is arranged, serving for the filling of said vessel and for closing it tightly, and for this object a stopper is provided with a special arrangement necessitating the use of a  
25 key of peculiar form, thus preventing the use of the apparatus by a stranger. In continuation of the tap an expander *c* is arranged for limiting the pressure of the escaping gas, so  
30 as to allow the gas to be easily inhaled. Finally, a flexible tube *d*, of india-rubber or metal, is terminated by a mask *e* for covering the nose and mouth and capable of being retained on the face by any suitable means.  
35 Further, the expansion device has an operating-key *f*, easily accessible by the person using the apparatus and which allows him to regulate or stop the escape of the gas as desired.

40 The working of this apparatus will be easily understood, and its handling is very simple.

The apparatus possesses the following advantages over the india-rubber balls at present employed: The gas does not assume a disagreeable smell in the steel reservoir. Fur-

ther, a larger quantity of oxygen is concentrated in a smaller space, and consequently the inconvenience of carrying the apparatus is diminished. Further, the expansion of the compressed gas conveys the oxygen to the  
50 breathing organs of the patient at a much lower temperature than the surrounding air, which of itself produces an agreeable sensation. Further, the pressure is always maintained, and the gas is thus caused to pene-  
55 trate fully into the pulmonic alveolas, which is not the case with india-rubber balls.

It is needless to state that the forms and dimensions of the inhaling apparatus hereinbefore described may vary according to re-  
60 quirements and to their particular applications. The relative arrangement of the constituent parts of our apparatus may also be modified, if desired.

We declare that what we claim is— 65

A portable inhaling apparatus specially adapted for diminishing the effects of seasickness, consisting of a steel vessel *a* containing pure oxygen under pressure and provided with a tap *b* for filling and closing it,  
70 such tap being formed in such a way as to be only capable of being opened or closed by means of a special key, an expander *c* connected with a branch of the tap *b* for regulating the pressure of the escaping gas, and pro-  
75 vided with a handle or key *f* easily accessible to the person using the apparatus, and a flexible tube *d* having at its free end a mask *e* adapted to fit over the nose and mouth of the patient, substantially as described. 80

In witness whereof we have hereunto set our hands in presence of witnesses.

JEAN PLANEUR.

LOUIS DUTREMBLAY.

Witnesses as to Jean Planeur:

MARIN PACHON,

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Witnesses as to Louis Dutremblay:

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