

Specification of Pierre Villiers : impregnating the air for the lungs, &c.;

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A.D. 1873, 20th August. N° 2751.

SPECIFICATION

OF

DE VILLIERS AND JOSEPH MAYER.

REGNATING AIR FOR THE LUNGS, &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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1874.





A.D. 1873, 20th August. N° 2751.

Impregnating Air for the Lungs, &c.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Pierre Villiers and Joseph Mayer at the Office of the Commissioners of Patents, with their Petition, on the 20th August 1873.

We, **PIERRE VILLIERS**, of No. 5, College Street, Fulham Road, M.D., 5 and **JOSEPH MAYER**, of No. 59, Great Portland Street, both in the County of Middlesex, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN MEANS AND APPARATUS FOR THE IMPREGNATION OF AIR FOR SUPPLYING THE LUNGS OR OTHER PARTS OF THE BODY,**" to be as follows:—

10 The object of the Invention is to supply increased quantities of oxygen or other gases or vapours to atmospheric air and to facilitate the conducting of the impregnated air to the lungs, or it may be to wounds or other openings on the surface of the body. For this purpose we apply the impregnating material in a small chamber open at the top
15 but enclosed in a larger and close chamber.

The air to be impregnated is forced by a hand ball, inflator, or other suitable forcing means through a tube into and through the cover of the larger chamber to near the bottom of the inner chamber, so that it

Villiers & Mayer's Apparatus for Impregnating Air for the Lungs, &c.

may be distributed amongst the matters in that vessel to absorb gas therefrom. This impregnated air thence passes away by another tube, by which and a suitable mouth piece it may be inhaled by a consumptive or other patient, or by adopting other forms of outlet the impregnated air may be forced into a wound or other opening. 5

For the supply of oxygen we employ camphor of Borneo combined with either rosin from cedar or from spruce, fir, or essence of canella, or turpentine or cachou (Japan earth), or Italian essence, or Royal essence, or American white turpentine, or Mecha's turpentine, or Chios, (or Greek) turpentine, or maritime spruce fir turpentine. 10

In the respective cases we combine the matters in equal proportions but we do not confine ourselves thereto, and then having well mixed the particular combination we subject it to a heating process for purification.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1874.



