

Specification of Alfred Vincent Newton : inhaling apparatus.

Contributors

Newton, A. V. 1820-1900.

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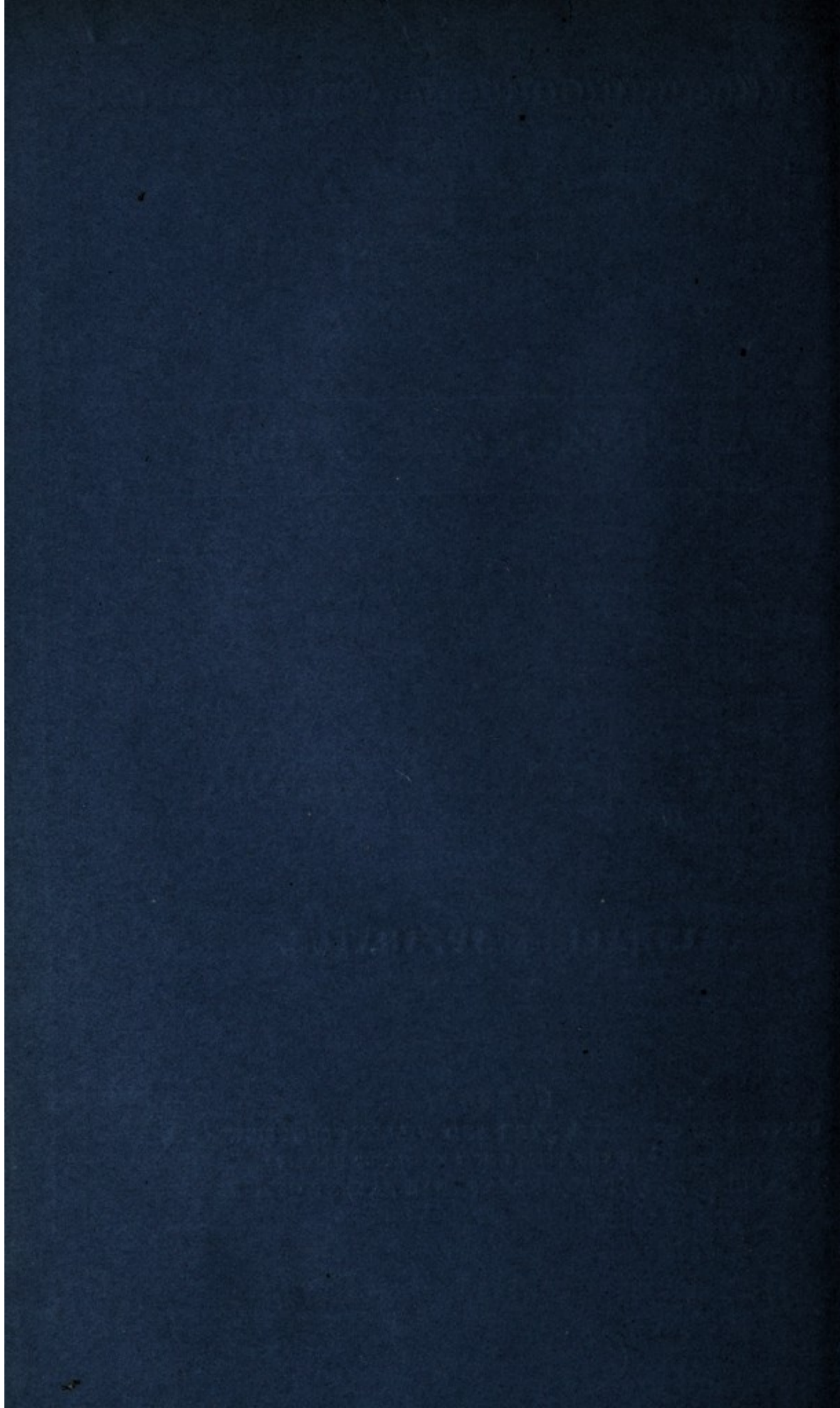
A.D. 1864, 7th Mar. N^o 1161.

SPECIFICATION
OF
ALFRED VINCENT NEWTON.

—
INHALING APPARATUS.
—

LONDON:
PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1864.





A.D. 1864, 7th MAY. N° 1161.

Inhaling Apparatus.

LETTERS PATENT to Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for the Invention of "**IMPROVED APPARATUS FOR FACILITATING THE INHALATION OF MEDICINAL SUBSTANCES.**"—A communication from abroad by John Jones, of the City and State of New York, United States of America.

Sealed the 30th September 1864, and dated the 7th May 1864.

PROVISIONAL SPECIFICATION left by the said Alfred Vincent Newton at the Office of the Commissioners of Patents, with his Petition, on the 7th May 1864.

I, **ALFRED VINCENT NEWTON**, of the Office for Patents, 66, Chancery Lane, 5 in the County of Middlesex, Mechanical Draughtsman, do hereby declare the nature of the said Invention for "**IMPROVED APPARATUS FOR FACILITATING THE INHALATION OF MEDICINAL SUBSTANCES,**" to be as follows :—

This Invention relates to a novel arrangement of apparatus whereby medicinal substances, such as chlorate of potash, in a fine granulated state may be 10 inhaled with facility for the purpose of treating certain affections of the lungs and throat.

The apparatus consists of a case with a hinged lid formed with two inclines. In one of these an opening is made to permit of the insertion of the nose and mouth of the patient and in the lid a wire screen is fitted. Within the 15 case is fitted a removable box with a segmental bottom, and in this box is

Newton's Improved Inhaling Apparatus.

mounted a fan with radial wings formed of feathers, bristles, or other suitable material. The axle of this fan projects through the case and to it is keyed a winch handle for imparting rotary motion to the fan; holes are made in the case and box to allow of the free admission of air to the interior. The medicinal substance to be inhaled having been reduced to a dry fine powder is 5 placed in the box and the lid being shut down the patient places his face over the opening in the lid, at the same time he rotates the fan by the winch handle. A current of air is thus put in rapid circulation in the box, and the powder is caused to mix with it, the patient therefore while breathing inhales the powder freely, the supply being regulated by the speed at which the fan 10 is rotated.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Alfred Vincent Newton in the Great Seal Patent Office on the 7th November 1864.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ALFRED 15
VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Seventh day of May, in the year of our Lord One thousand eight hundred and sixty-four, in the twenty-seventh year 20 of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Alfred Vincent Newton, Her special license that I, the said Alfred Vincent Newton, my executors, administrators, and assigns, or such others as I, the said Alfred Vincent Newton, my executors, administrators, and assigns, should at any time agree with, and no others, from time to 25 time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**IMPROVED APPARATUS FOR FACILITATING THE INHALATION OF MEDICINAL SUBSTANCES**," being a communication from abroad, upon the condition 30 (amongst others) that I, the said Alfred Vincent Newton, by an instrument in writing under my hand and seal, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said 35 Letters Patent.

Newton's Improved Inhaling Apparatus.

NOW KNOW YE, that I, the said Alfred Vincent Newton, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the Drawing hereunto
5 annexed, and to the letters and figures marked thereon (that is to say):—

The object of this Invention is to provide a means of administering to the lungs of persons suffering from phthisis the medicinal substances recommended by the faculty. My correspondent having noticed the difficulty of conveying by vapor salts and heavy substances to the cavities of the lungs &c., of
10 phthysical patients has planned the apparatus which I will now describe for administering such substances in a pulverulent state.

In the accompanying Drawing, Fig. 1 represents the apparatus as in use, it being placed upon a table, and the patient inhaling from it the prepared powders. This apparatus consists of a box shewn in vertical section at Fig. 2,
15 and within which is placed an inner box or case; in this inner case is mounted a rotating fan or distributor for agitating the powder, and keeping it in suspension in the air, so that the patient drawing air from the box through an opening in the lid may receive the powder into the lungs. Fig. 3 is an edge view of the box. A sieve is connected with the cover for diffusing the
20 powders that rise before they can be inhaled. The same letters refer to the same parts in all the Figures.

A is the box, or whole exterior of the apparatus; B is the lid, in which the opening C is made, and to which the person using the apparatus applies the mouth, and thereby closes the opening air-tight or nearly so; D is an interior
25 box, generally of tin, having a semi-cylindrical bottom to correspond to the sweep of the rotary fan; E is an opening at one side of the tin case D to admit the air which is drawn in by the rotation of the fan; F, outside apertures admitting air to the interior of the box; H, the wings of the fan made of hair, feathers, or other light substance; I, the sieve, which is set in the bottom part
30 of the cover B to diffuse the rising powders, which as the breath is drawn come up through the sieve with the air. The shape or construction of the exterior box A is not essential. It is required to enclose properly the inner box D and the sieve I. The box D is made to take in or out at will for cleansing. The revolving fan is also made to take in or out to be cleaned,
35 or when different preparations are to be used. The crank, therefore, requires to be connected with the inner box and fan by a screw shank to be screwed into place after the box D and its revolving fan are put in. One end of the shaft or cylinder to which the wings H are attached has a journal or pivot. The fan may be made with few or many wings and these constructed of hair,

Newton's Improved Inhaling Apparatus.

feathers, or any light substance. To put the apparatus in use, the top or cover is opened and the powders put in. The medicated powders should be pulverized to the highest degree and superdesiccated, and be kept bottled and safe from the absorption of water from the air. When these are put in the cover is shut down, and the patient sits before the box as shewn at Fig. 1, 5 and placing the mouth and nose in the opening C, so as to close it, turns the crank with more or less speed according to the nature of the powders in order to disturb them, and diffuse them in the air, at the same time drawing in the breath. The expiration of breath may be out of the box or within it, but out of it is best. By the act of inhalation air is drawn in at the opening E made 10 in the box D from the outside openings F. Chlorate of potash and other proper substances may thus be placed in juxtaposition with the ulcers or inflamed surfaces of the lungs and throat.

Having now set forth the nature of the Invention of improved apparatus for facilitating the inhalation of medicinal substances, as communicated 15 to me from abroad, and explained the manner of carrying the same into effect, I wish it to be understood that under the above in part recited Letters Patent I claim, the construction and use of the box for containing medicated powders for respiration, and fitted with a revolving fan for mixing them with the air to be breathed in the manner substantially as above described. 20

In witness whereof, I, the said Alfred Vincent Newton, have hereunto set my hand and seal, this Seventh day of November, in the year of our Lord One thousand eight hundred and sixty-four.

A. V. NEWTON. (L.S.)

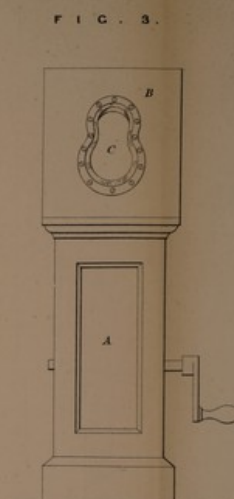
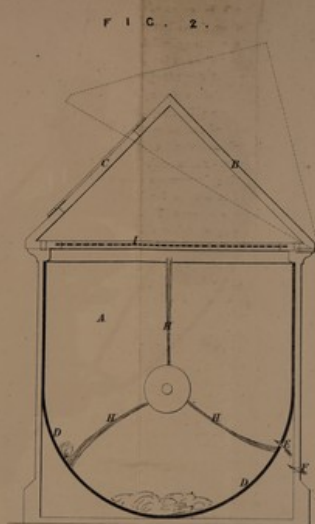
Witness,

J. W. MOFFATT,

66, Chancery Lane.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1864.



The steel drawing is partly colored.

Drawn on Stone by Milby & Sons

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