

## **Specification of John Wainwright : respirators.**

### **Contributors**

Wainwright, John.

### **Publication/Creation**

London : Great Seal Patent Office, 1859 (London : George E. Eyre and William Spottiswoode)

### **Persistent URL**

<https://wellcomecollection.org/works/zss9yas>

### **License and attribution**

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>



---

A.D. 1858, 15th OCTOBER. N° 2305.

---

SPECIFICATION

OF

JOHN WAINWRIGHT.

—  
RESPIRATORS.  
—

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,  
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,  
25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 3d.

1859.



# PROCEEDINGS OF THE

100th ANNUAL MEETING

OF THE

1991

1992

1993

1994

1995

1996

1997

1998





---

A.D. 1858, 15th OCTOBER. N° 2305.

---

## Respirators.

*(This Invention received Provisional Protection only.)*

**PROVISIONAL SPECIFICATION** left by John Wainwright at the Office of the Commissioners of Patents, with his Petition, on the 15th October 1858.

I, JOHN WAINWRIGHT, of Birkenhead, in the County of Chester, Dental  
5 Surgeon, do hereby declare the nature of the said Invention for "**IMPROVE-  
MENTS IN RESPIRATORS,**" to be as follows:—

All the respirators hitherto in use have retained a portion of the expired  
air, which produces exhaustion and renders the instrument itself ultimately  
injurious, the respired air being of course quite unfit to re-enter the lungs,  
10 especially when the lungs have been so weakened as to require the use of  
such an instrument at all.

My improved respirator differs essentially from all others, firstly, in having  
two valves, thereby allowing the inhalation and exhalation to be conducted  
through separate media, all previous respirators being arranged so that the  
15 inspiration and expiration take place through one medium, which of course in  
time retains a portion of the expired air. In my respirator I separate by my  
valves the two actions, and render it impossible that any foul or exhausted air  
can be retained in the instrument. A person may continue to use it for an  
indefinitely long period with increasing benefit. Secondly, in constructing  
20 my improved respirator I employ a series of metal plates, by preference three  
in number, in place of the wire gauze usually employed in respirators.

---

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1859.

