

**Specification of Joseph Rogers : galvanic shield for the chest and lungs,  
&c.;**

**Contributors**

Rogers, Joseph.

**Publication/Creation**

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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. 1875, 11th SEPTEMBER. N° 3187.

SPECIFICATION

OF

JOSEPH ROGERS.

GALVANIC SHIELD FOR THE CHEST AND  
LUNGS, &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

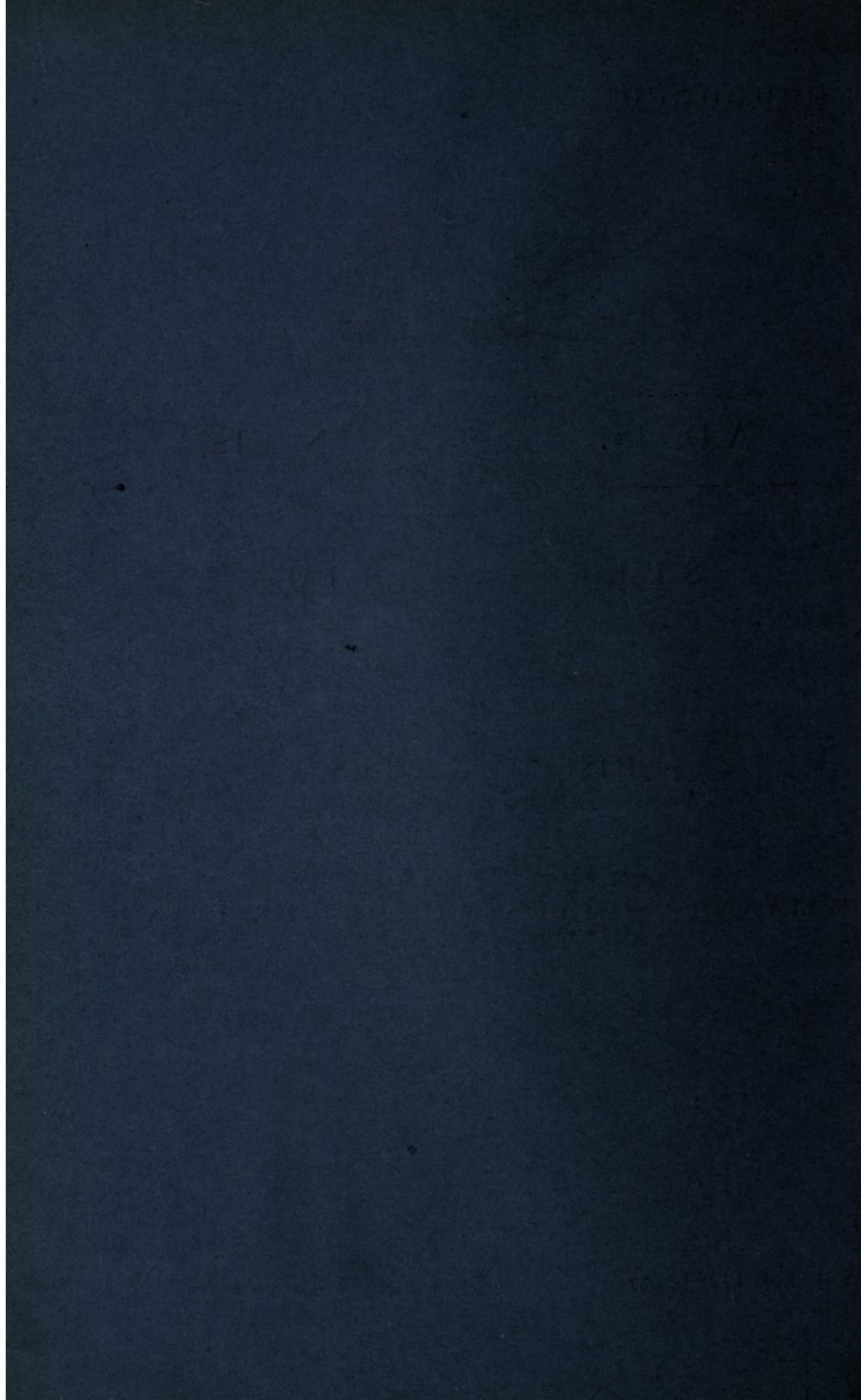
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.

3d.

1876.







A.D. 1875, 11th SEPTEMBER. N° 3187.

**Galvanic Shield for the Chest and Lungs, &c.**

*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by Joseph Rogers at the Office of the Commissioners of Patents, with his Petition, on the 11th September 1875.

I, JOSEPH ROGERS, of Owens Row, Goswell Road, in the County of Middlesex, Electrician, do hereby declare the nature of the said Invention for "A NEW OR IMPROVED GALVANIC SHIELD OR PROTECTOR FOR IMPARTING ELECTRICITY TO THE CHEST AND LUNGS AND OTHER PARTS OF THE HUMAN BODY," to be as follows:—

This Invention relates to a novel construction of electrical protectors applicable to various parts of the human body to which it may be necessary to communicate electrical currents.

I form a series of batteries composed of copper and zinc as follows:— I take a small plate of the metal and bend it double, leaving a narrow space within, and I press the edges together and solder the same, leaving a small opening for the insertion of a suitable exciting acid or salt, or other electrical excitant compound, and I then hermetically close the aperture, thus forming a cell. These cells may be respectively of copper or of zinc, and are to be connected by short lengths of chain



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*Rogers' Improved Galvanic Shield for the Chest and Lungs, &c.*

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or wire to each other, but by the intervention of a simple plate of copper or zinc, so that a copper cell may be connected to a zinc plate, and vice versa; or I make the entire series in the cellular form excited as described. Or in some cases I place the copper cell on the surface of a zinc plate with the intervention of a piece of fabric, and I secure the two by means of an eyelet rivet; or I place a zinc cell on a copper plate. These may form separate batteries, but in some cases I connect the entire series throughout my protector by means of chains or wires exactly on the principle of a galvanic battery. And I also propose to insulate the positive and negative elements by the intervention of gutta 10 percha or other insulating compound to assist the process.

In order to apply these batteries to the human body I employ suitable fabrics, such as flannel or felt, wash leather, cotton, wool, or silk, and I form receptacles or pockets in the interior lining or body of the protector, and then apply my galvanic series in any positions and 15 number required with their connections, after which I complete the article by external and internal layers of fabric, when by straps or bands the protector may be adjusted to the chest or back, or both, or to any desired part of the body to be treated.

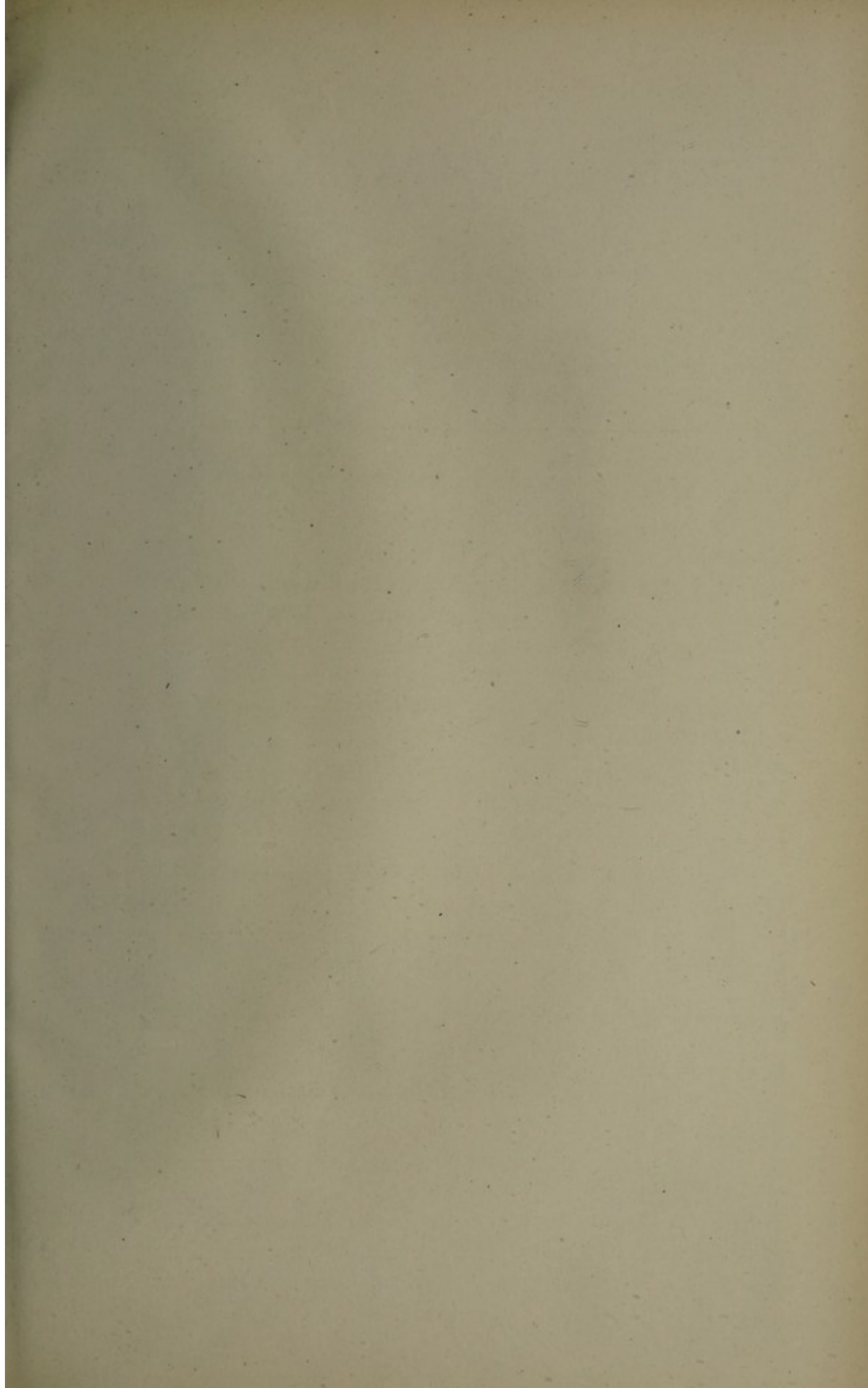
In the chest and back protector I propose to employ an independent 20 battery or plate for the purpose of obtaining a positive current directly through the body.

In lieu of copper and zinc I use platinum, platinized lead, silver, or other well known metals or combinations of batteries, capable of concentration in a small compass, the principle of my Invention being the 25 same.

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1876.





My dear Mr. [Name]

I have just received your letter of the 10th inst. and am glad to hear that you are well. I am also well and hope this letter finds you the same. I have been thinking much of late about the future of our country and the state of our Union. It seems to me that we are passing through a great crisis and that the result will determine whether we are to remain a united people or become a collection of warring states. I feel that it is our duty to stand by our principles and to maintain the Union at all costs.

I have been reading much of the literature of the day and have been struck by the many different opinions that are being expressed. Some people think that we should give up our principles and follow the lead of the South. Others think that we should stand by our principles and fight to the last. I think that the right course is to stand by our principles and to maintain the Union at all costs. I believe that this is the only way to preserve our country and our way of life.

I am, dear Mr. [Name], very truly yours,

[Signature]

Very truly yours,  
[Signature]