

Specification of Gustave Gabillon : preparing and preserving styptic paper, &c.;

Contributors

Gabillon, Gustave.

Publication/Creation

London : Great Seal Patent Office, 1868 (London : George E. Eyre and William Spottiswoode)

Persistent URL

<https://wellcomecollection.org/works/dq7gzzmv>

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
<https://wellcomecollection.org>



A.D. 1867, 9th JULY. N° 2006.

S P E C I F I C A T I O N

OF

GUSTAVE GABILLON.

PREPARING AND PRESERVING STYPTIC
PAPER, &c.

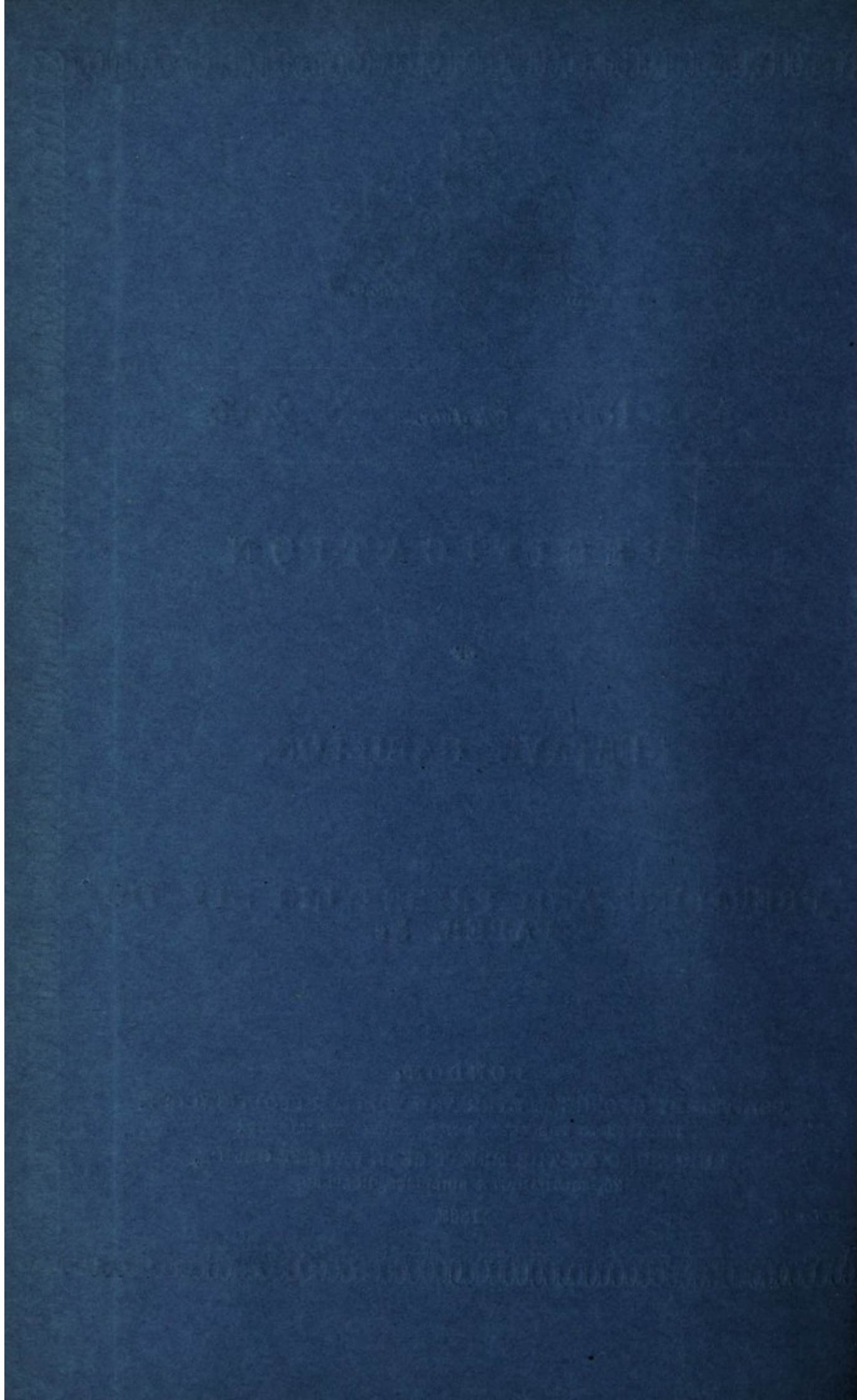
LONDON:

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.

Price 4d.

1868.





A.D. 1867, 9th JULY. N° 2006.

Preparing and Preserving Styptic Paper, &c.

LETTERS PATENT to Gustave Gabillon, of No. 7, Rue Joquelet, Paris, in the Empire of France, Chemist, for the Invention of "**A PROCESS TO PREPARE AND PRESERVE PAPER AND TISSUES WITH A SOLUTION OF PERCHLORIDE OF IRON, INTENDED FOR STOPPING THE BLEEDING OF WOUNDS.**"

Sealed the 31st December 1867, and dated the 9th July 1867.

PROVISIONAL SPECIFICATION left by the said Gustave Gabillon at the Office of the Commissioners of Patents, with his Petition, on the 9th July 1867.

I, **GUSTAVE GABILLON**, of No. 7, Rue Joquelet, Paris, in the Empire of France, Chemist, do hereby declare the nature of the said Invention for "**A PROCESS TO PREPARE AND PRESERVE PAPER AND TISSUES WITH A SOLUTION OF PERCHLORIDE OF IRON, INTENDED FOR STOPPING THE BLEEDING OF WOUNDS,**" to be as follows:—

The perchloride of iron possesses hemostatic properties in a high degree, and paper or tissue prepared with it being applied on wounds instantly stops the bleeding.

It is indeed well known that perchloride of iron possesses the property of stopping the effusion of blood, but the solution which was to be used directly offered some difficulties, and could not be readily applied nor carried about.

Gabillon's Process of Preparing and Preserving Styptic Paper.

The paper or tissue to be impregnated with a solution of perchloride of iron undergoes a first preparation to render it supple, and to prevent the destruction of its fibres when dry it is dipped in a saturated solution of perchloride of iron. Now the hemostatic properties acquired would be lost after a short time if this paper were left in the open air or folded in a cloth or in common paper, 5 the part of the Invention relative to the preservation of the impregnated paper, which is yellow, consists in wrapping it in a waterproof taffeta prepared with an addition of resinous substances, which allows the impregnated paper to be kept for any length of time always ready for use.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed 10 by the said Gustave Gabillon in the Great Seal Patent Office on the 8th January 1868.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, GUSTAVE GABILLON, of Number 7, Rue Jacquenet, Paris, in the Empire of France, Chemist, send greeting. 15

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Ninth day of July, in the year of our Lord One thousand eight hundred and sixty-seven, in the thirty-first year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Gustave Gabillon, Her special licence, that I, the said Gustave Gabillon, my 20 executors, administrators, and assigns, or such others as I, the said Gustave Gabillon, my executors, administrators, and assigns, should at any time agree with, and no others, from time to 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 25 Islands, and Isle of Man, an Invention for "**A PROCESS TO PREPARE AND PRESERVE PAPER AND TISSUES WITH A SOLUTION OF PERCHLORIDE OF IRON, INTENDED FOR STOPPING THE BLEEDING OF WOUNDS,**" upon the condition (amongst others) that I, the said Gustave Gabillon, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should 30 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 Patent Seal Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Gustave Gabillon, do hereby declare the 35 nature of my said Invention, and in what manner the same is to be per-

Gabillon's Process of Preparing and Preserving Styptic Paper.

formed, to be particularly described and ascertained in and by the following statement:—

The hemostatic (or "hæmostatic") properties of perchloride of iron are well known, but hitherto it has been used for this purpose only in a liquid state, as
5 it was not thought possible to obtain or prepare this substance in a more convenient form for ready application, and thus to introduce it into more general use. The main cause preventing the use of perchloride of iron in combination with another material is its destructive nature. It is by paralysing this cause that I succeed in applying this ferruginous compound on paper and tissues of
10 all kinds. Accordingly I have combined a preparation to prevent the said papers and tissues being eaten by the perchloride of iron, and consequently to impart to them the property of receiving and keeping the said perchloride of iron in a convenient form, which allows it to be used very easily wherever it may be required. It is this particular fact of rendering paper and tissues
15 impervious to the attack of perchloride of iron by means of a protecting preparation, and thereby obtaining the said perchloride in a supple and solid state which constitutes the main basis of my Invention.

My process consists of two principal points:—Firstly, the actual preparation of paper or tissues with perchloride of iron; secondly, the mode of
20 permanently preserving the said paper when prepared with the perchloride of iron. The paper or tissues are at first coated with the protecting composition, this being effected by dipping them in the following solution, namely, one pound of benzoin resin of first quality, one pound of rock alum, and four and $\frac{1}{3}$ gallons of water. The whole is thrown into a suitable vessel, say, an
25 earthen or a copper one, carefully tinned on the inner side; this vessel is placed over the fire and heated to the boiling point; the solution must be kept boiling during four hours, and be stirred from time to time. The evaporated water is replaced by the same quantity of fresh water, and as soon as the solution is cooled it is filtered off; the paper or the tissues to be prepared
30 are then dipped in the said solution, and remain dipping as long as may be deemed necessary for their saturation, after which they are left to dry with all requisite care. When in this state a solution of perchloride of iron in a more or less concentrated state is applied over the prepared sheets of paper or cloth in the simplest manner, for instance, by means either of a brush or
35 of a roller. The paper or tissue being thus prepared is folded up and carefully preserved from the action of the atmosphere by wrapping it in a piece of waterproof taffeta prepared with an addition of resinous substances, and is thus preserved during any length of time in a perfect state and always ready for use.

Gabillon's Process of Preparing and Preserving Styptic Paper.

My Invention being now described, I desire to have it understood that I do not claim the use of perchloride of iron as a hemostatic agent; but what I claim is,—

The preparation of paper or tissue of any suitable kind with perchloride of iron, as before described, to be used as a very convenient and efficacious 5 hemostatic agent.

And I claim also the means of preventing the said paper or tissue thus prepared from being destroyed by the action of the air by folding and wrapping it up in a piece of waterproofed taffeta prepared with an addition of resinous substances, as above described. 10

In witness whereof, I, the said Gustave Gabillon, have hereunto set my hand and seal, this Fourth day of January, in the year of our Lord One thousand eight hundred and sixty-eight.

G. GABILLON. (L.S.)

Signed and sealed in the presence of

D'AUBRÉVILLE, C. E.

15

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1868.