

## **Specification of Frederick Henry Smith : tape plasters or bandages.**

### **Contributors**

Smith, Frederick Henry.

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A.D. 1874, 16th JANUARY. N° 211.

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SPECIFICATION

OF

FREDERICK HENRY SMITH.

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TAPE PLASTERS OR BANDAGES.

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LONDON:

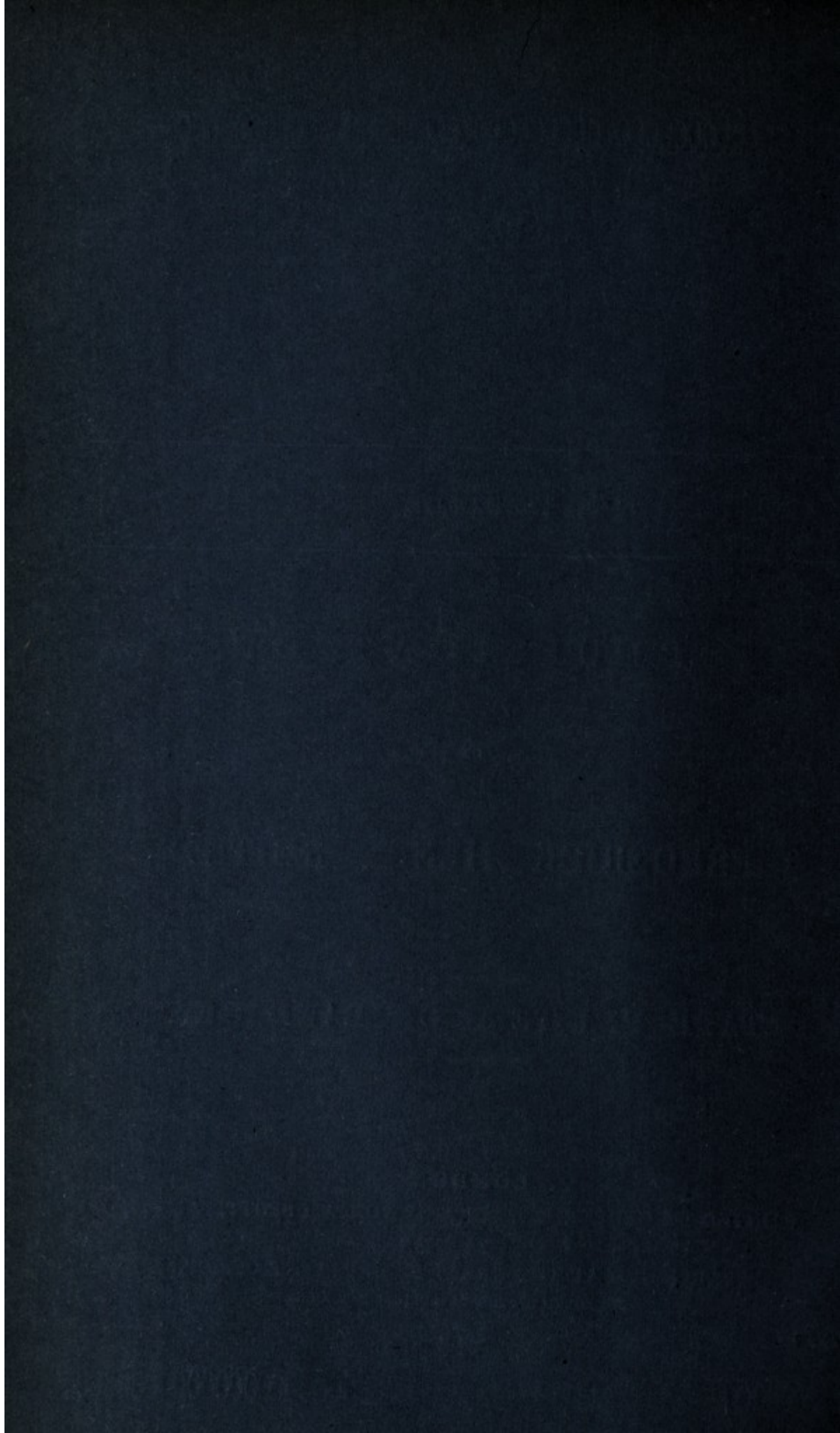
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1874.







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A.D. 1874, 16th JANUARY. N° 211.

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### **Tape Plasters or Bandages.**

**LETTERS PATENT** to Frederick Henry Smith, Doctor of Medicine, of Lewisham, in the County of Kent, for the Invention of "**IMPROVEMENTS IN THE MANUFACTURE OF TAPE PLAISTERS OR BANDAGES, AND IN MOUNTING THE SAME UPON REELS OR HOLDERS.**"

Sealed the 10th July 1874, and dated the 16th January 1874.

**PROVISIONAL SPECIFICATION** left by the said Frederick Henry Smith at the Office of the Commissioners of Patents, with his Petition, on the 16th January 1874.

I, **FREDERICK HENRY SMITH**, Doctor of Medicine, of Lewisham, in  
5 the County of Kent, do hereby declare the nature of the said Invention  
for "**IMPROVEMENTS IN THE MANUFACTURE OF TAPE PLAISTERS OR BANDAGES,**  
**AND IN MOUNTING THE SAME UPON REELS OR HOLDERS,**" to be as follows:—

This Invention has for its object improvements in the manufacture of  
adhesive plaster for surgical purposes whereby it is rendered soft and  
10 pliable, so as to admit of its being cut (by suitable mechanism) into



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long strips or tapes of various widths, which can be wound upon reels or holders in accordance with my Invention for convenience in use, and the plaister thus prepared and mounted will not be injured by keeping in any climate.

For this purpose I prepare a composition consisting of the following 5 materials, the proportions of which may however be varied according to the temperature to which the plaister made therefrom is likely to be subjected, in order to prevent the surface as it is unwound from the reel from cracking, peeling, or breaking off when exposed to compara- 10 tively low temperatures:—

Soda	-	-	-	5 per cent.
Rosin	-	-	-	3 „
Litharge	-	-	-	25 „
Olive oil	-	-	-	67 „

These materials prepared as is well understood in the preparation of 15 similar compounds used for the manufacture of adhesive plaister are spread upon the surface of calico, linen, silk, leather, or other suitable materials, which are afterwards cut up into strips or tapes, and then wound upon reels or holders (by preference of cylindrical form) made of wood, metal, or other suitable materials in accordance with my 20 Invention.

I prefer to form the ends of the reels hollow, and to wind the tapes of plaister thereon with the prepared or adhesive surface outwards, by which arrangement they can be conveniently held by the user when in the act of unwinding and applying the plaister or bandage to the limb of 25 a patient.

The addition of olive or other suitable oil to the composition is the means by which the adhesive plaister is rendered soft, limp, and pliable, being thereby preserved and prevented from peeling, cracking, and breaking off in any climate, as would be the case with plaister as 30 ordinarily prepared.



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**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Frederick Henry Smith in the Great Seal Patent Office on the 16th July 1874.

**TO ALL TO WHOM THESE PRESENTS SHALL COME**, I, **FREDERICK HENRY SMITH**, Doctor of Medicine, of Lewisham, in the County of Kent, send greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Sixteenth day of January, in the year of our Lord One thousand eight hundred and seventy-four, in the thirty-seventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Frederick Henry Smith, Her special license that I, the said Frederick Henry Smith, my executors, administrators, and assigns, or such others as I, the said Frederick Henry Smith, 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 Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN THE MANUFACTURE OF TAPE PLAISTERS OR BANDAGES, AND IN MOUNTING THE SAME UPON REELS OR HOLDERS**," upon the condition (amongst others) that I, the said Frederick Henry Smith, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, 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 Letters Patent.

**NOW KNOW YE**, that I, the said Frederick Henry Smith, 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 thereof, that is to say :—

This Invention has for its object improvements in the manufacture of adhesive plaister for surgical purposes, whereby it is rendered soft and pliable, so as to admit of its being cut (by suitable mechanism) into long strips or tapes of various widths, which can be wound upon reels



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or holders, in accordance with my Invention, for convenience in use, and the plaister thus prepared and mounted will not be injured by keeping in any climate.

For this purpose I prepare a composition consisting of the following materials, the proportions of which may however be varied according to 5 the temperature to which the plaister made therefrom is likely to be subjected in order to prevent the surface as it is unwound from the reel from cracking, peeling, or breaking off when exposed to comparatively low temperatures :—

Soda	-	-	-	5 per cent.	10
Rosin	-	-	-	3 „	
Litharge	-	-	-	25 „	
Olive oil	-	-	-	67 „	

These materials, prepared as is well understood in the preparation of similar compounds used for the manufacture of adhesive plaisters, are 15 spread upon the surface of calico, linen, silk, leather, or other suitable materials, which are afterwards cut up into strips or tapes, and then wound upon reels or holders (by preference of cylindrical form) made of wood, metal, or other suitable materials, in accordance with my Invention. 20

I prefer to form the ends of the reels hollow, and to wind the tapes of plaister thereon with the prepared or adhesive surface outwards, by which arrangement they can be conveniently held by the user when in the act of unwinding and applying the plaister or bandage to the limb of a patient. 25

The addition of olive oil or other suitable oil to the composition is the means by which the adhesive plaister is rendered soft, limp, and pliable, being thereby preserved and prevented from peeling, cracking, and breaking off in any climate, as would be the case with plaister as ordinarily prepared. 30

Having thus described the nature of my Invention, and the manner of performing or carrying the same into practice, what I claim is,—

First. The improved manufacture of tape plaisters or bandages, substantially in the manner herein-before described.



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And, Secondly. I claim the mounting of tape plaisters or bandages upon reels or holders, substantially in the manner and for the purposes herein-before described.

5      In witness whereof, I, the said Frederick Henry Smith, have here-  
unto set my hand and seal, this Fourteenth day of July, in the  
year of our Lord One thousand eight hundred and seventy-  
four.

F. H. SMITH. (L.S.)

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LONDON :

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Printers to the Queen's most Excellent Majesty. 1874.



Smith's Laboratory in the Palace of the  
And, secondly, I claim the mounting of tape pictures or paintings  
upon cards or slabs, substantially in the manner and for the purposes  
herein-before described.

In witness whereof, I, the said Thomas Henry Smith, have here-  
unto set my hand and seal, this thirtieth day of July, in the  
year of our Lord One thousand eight hundred and seventy-  
four.

THOMAS HENRY SMITH. (A.)

LONDON:  
Printed by Groombridge and Sons and William Groombridge,  
Printers to the Queen's most Excellent Majesty, 1874.

