

## **Specification of William Darlow : trusses, splints, &c.;**

### **Contributors**

Darlow, William.

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A.D. 1874, 31st MARCH. N° 1121.

SPECIFICATION

OF

WILLIAM DARLOW.

TRUSSES, SPLINTS, &c.

LONDON:

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1874.







A.D. 1874, 31st MARCH. N° 1121.

**Trusses, Splints, &c.**

**LETTERS PATENT** to William Darlow, of 435, Strand, in the County of Middlesex, for the Invention of "IMPROVEMENTS IN TRUSSES, SPLINTS, AND OTHER SURGICAL APPLIANCES EMPLOYED FOR AFFORDING SUPPORT TO THE HUMAN BODY OR LIMBS."

Sealed the 25th September 1874, and dated the 31st March 1874.

**PROVISIONAL SPECIFICATION** left by the said William Darlow at the Office of the Commissioners of Patents, with his Petition, on the 31st March 1874.

I, WILLIAM DARLOW, of 435, Strand, in the County of Middlesex, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN TRUSSES, SPLINTS, AND OTHER SURGICAL APPLIANCES EMPLOYED FOR AFFORDING SUPPORT TO THE HUMAN BODY OR LIMBS," to be as follows:—

This Invention relates to the application of magnetism pure and simple to or in magnetising the metallic parts of every description of hernial truss and other surgical supports and appliances in which there is or may be inserted steel or other magnetisable material or metal employed in the construction of such trusses, supports, or appliances



*Darlow's Improvements in Trusses, Splints, &c.*

in order to impart curative or healing properties thereto by magnetization.

The application of my Invention to a truss or other surgical support or appliance does not depend upon or relate to its form or construction so long as it can be magnetised, and by such action bring to bear the 5 healing curative properties of such magnetism on the hernial, umbilical, or other rupture.

Also in bringing magnetic properties to bear on the dorsal region and abdominal plexus for the cure of incipient rupture, or for reducing obstinate forms of hernia, and at the same time imparting strength to 10 the organs surrounding this part of the system.

Also by acting on the abdomen most beneficially when the patient suffers from great bowel weakness, or where low spinal weakness exists, and which up to this time has not been treated either by truss or bandage. The application of galvanism for such purposes has been 15 attempted but has failed in consequence of the difficulty attending its application. No means have as yet been attempted except the mechanical aid afforded by such contrivances, but by my improvements I bring to bear curative power as well as mechanical aid.

My improvements are also applicable to splints, pads, and other 20 surgical supports or appliances, for whatever purpose they may be applied to the human body or limbs.

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SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said William Darlow in the Great Seal Patent Office on the 30th September 1874. 25

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM DARLOW, of 435, Strand, in the County of Middlesex, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Thirty-first day of March, in the year of our Lord One thousand eight hundred and seventy-four, in the 30 thirty-seventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said William Darlow, Her special license that I, the said William Darlow, my executors,



*Darlow's Improvements in Trusses, Splints, &c.*

administrators, and assigns, or such others as I, the said William Darlow, 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  
5 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 TRUSSES, SPLINTS, AND OTHER SURGICAL APPLIANCES EMPLOYED FOR AFFORDING SUPPORT TO THE HUMAN BODY OR LIMBS," upon the condition (amongst others) that I, the said William Darlow,  
10 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  
15 after the date of the said Letters Patent.

NOW KNOW YE, that I, the said William Darlow, 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, to be as follows:—

20 This Invention relates to the application of magnetism pure and simple to or in magnetizing the metallic parts of every description of hernial and other trusses and other surgical supports and appliances in which there is or may be inserted steel or other magnetizable material or metal employed in the construction of such trusses, supports, or appliances,  
25 in order to impart curative or healing properties thereto by magnetization.

The application of my Invention to a truss or other surgical support or appliance does not depend upon or relate to its form or construction so long as it can be magnetized, and by such action bring to bear the healing  
30 curative properties of such magnetism on the hernial, umbilical, or other rupture.

Also in bringing magnetic properties to bear on the dorsal region and abdominal plexus for the cure of incipient rupture, or for reducing obstinate forms of hernia, and at the same time imparting strength to  
35 the organs surrounding this part of the system.

Also by acting on the abdomen most beneficially when the patient suffers from great bowel weakness or where low spinal weakness exists,



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*Darlow's Improvements in Trusses, Splints, &c.*

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and which up to this time has not been treated either by truss or bandage. The application of galvanism for such purposes has been attempted but has failed in consequence of the difficulty attending its application. No means have as yet been attempted except the mechanical aid afforded by such contrivances, but by my improve- 5  
ments I bring to bear curative power as well as mechanical aid.

My improvements are also applicable to splints, pads, and other surgical supports or appliances for whatever purpose they may be applied to the human body or limbs.

In carrying out the first part of my improvements I magnetize all or 10  
a part of the steel or magnetizable matter in an ordinary truss, thus polarizing the truss and making it a magnet or magnets in itself in accordance with my Invention.

In carrying out another part of my improvements I place on or affix 15  
magnets to a truss so as to act independently of or in conjunction with the said truss or surgical appliance to which it is affixed in accordance with my Invention.

In carrying out another part of my improvements I magnetize all steel or magnetizable matter in truss pads, and thus localise and focus 20  
the magnetic force directly on the rupture to which it is applied for the purpose of facilitating the healing of the ruptured parts in accordance with my Invention.

In carrying out another part of my improvements I make non-con-  
ducting truss pads magnetic by mixing magnetic oxide of iron, steel, or other magnetizable matter with india-rubber and vulcanize it, or by 25  
mixing the magnetizable matter with china or other clay, and moulding it into the shapes required, after which it is baked in the ordinary way and then magnetized in accordance with my Invention. Or I imbed small strips or pieces of steel, cut, cast, or made by other means, into any 30  
shape in vulcanite, china, or enamel so that the magnetizable matter may be magnetized either before or after being put into the truss or other surgical pads if required.

In carrying out another part of my improvements I enamel iron or steel made in the form of a truss or truss pad, so that the pad itself may be non-conducting (and yet be capable of being strongly magnetized if 35  
required). The pad may be flat, concave, or convex, to suit the part to



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*Darlow's Improvements in Trusses, Splints, &c.*

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which it is applied. The truss may be made of thin sheet or other iron or steel cut, welded, or cast into the desired forms, then enamelled by any of the ordinary methods of enamelling, and afterwards magnetized, thus dispensing with the ordinary modes of padding, and combining  
5 lightness and durability with the magnetic power.

Having thus described the nature of my improvements and the manner of performing or carrying the same into practice, what I claim is, the application of magnetism to hernial and other trusses, and other surgical supports and appliances by magnetizing the iron, steel, or other mag-  
10 netizable material employed in the construction of such surgical appliances, substantially in the manner and for the purposes hereinbefore described.

In witness whereof, I, the said William Darlow, have hereunto set my hand and seal, this Twenty-ninth day of September, in  
15 the year of our Lord One thousand eight hundred and seventy-four.

WILLIAM DARLOW. (L.S.)

Witness,

J. G. TONGUE,  
20 Patent Agent,  
34, Southampton Buildings,  
Chancery Lane,  
London,  
W.C.

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LONDON:

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



*Patent for Improvements in Various Appliances, &c.*

which is applied. The lens may be made of thin sheet of other iron or steel cut, or cast into the desired form, then annealed by any of the ordinary methods of annealing, and afterwards magnetized, thus dispensing with the ordinary modes of grinding, and combining lightness and durability with the magnetic power.

Having thus described the nature of my improvements and the manner of performing or carrying the same into practice, what I claim is the application of magnetism to ferrous and other alloys, and other supports and appliances by magnetizing the iron, steel, or other magnetic material employed in the construction of such magnetic appliances, substantially in the manner and for the purposes hereinbefore described.

In witness whereof, I, the said William Darioff, have hereunto set my hand and seal, this Twenty-ninth day of September, in the year of our Lord One thousand eight hundred and seventy-four.

WILLIAM DARIOFF, (Esq.)

Witness,  
J. G. Tuxford,  
Patent Agent,  
21, Southampton Buildings,  
Chancery Lane, London, E.C.

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Printers to the Queen and the Exhibition of 1874.







