

## **Specification of Alfred Coles and William Coles : trusses.**

### **Contributors**

Coles, Alfred.  
Coles, William (Journalist).

### **Publication/Creation**

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A.D. 1862, 15th MARCH. N° 711.

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

OF

ALFRED COLES AND WILLIAM COLES.

—  
TRUSSES.  
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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.

104.

1862.



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A.D. 1862, 15th MARCH. N° 711.

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**Trusses.**

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**LETTERS PATENT** to Alfred Coles and William Coles, both of Wych Street, Strand, in the County of Middlesex, Truss Makers, for the Invention of  
"IMPROVEMENTS IN THE CONSTRUCTION OF TRUSSES FOR CASES OF HERNIA."

Sealed the 12th September 1862, and dated the 15th March 1862.

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**PROVISIONAL SPECIFICATION** left by the said Alfred Coles and William Coles at the Office of the Commissioners of Patents, with their Petition, on the 15th March 1862.

We, ALFRED COLES and WILLIAM COLES, both of Wych Street, Strand, in the County of Middlesex, Truss Makers, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN THE CONSTRUCTION OF TRUSSES FOR CASES OF HERNIA," to be as follows:—

This Invention relates to certain improvements in the construction of trusses whereby the same truss can be adapted and rendered applicable to several distinct kinds of hernia. A piece of metal furnished with a longitudinal slot therein is connected with the body spring of the truss by means of a set screw which acts as a pivot, and works in a smaller slot at one end of the said piece of metal. The front pad is connected by its back with the slotted piece of metal by set screws passing through the longitudinal slot, so that the pad can be shifted and fixed by means of the set screws, the result being that the truss is lengthened or shortened as may be desired, while by reason of the



*A. & W. Coles' Improvements in the Construction of Trusses for Cases of Hernia.*

said slotted piece of metal being pivoted to the body spring, it can be placed and fixed at any required angle thereto. By these arrangements the same truss can be rendered applicable to cases of inguinal, femoral, scrotal, or crural hernia, by simply adjusting, in manner before mentioned, the position of the pad and the angle thereof with reference to the body spring. The posterior 5 end of the body spring is also furnished with a longitudinal slot, whereby the position of the back pad can be altered and adjusted, set screws being employed for fixing the same.

**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Alfred Coles and William Coles in the Great Seal Patent 10 Office on the 15th September 1862.

**TO ALL TO WHOM THESE PRESENTS SHALL COME**, we, **ALFRED COLES** and **WILLIAM COLES**, both of Wych Street, Strand, in the County of Middlesex, Truss Makers, send greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters 15 Patent, bearing date the Fifteenth day of March, in the year of our Lord One thousand eight hundred and sixty-two, in the twenty-fifth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto us, the said Alfred Coles and William Coles, Her special licence that we, the said Alfred Coles and William Coles, our executors, administrators, and assigns, or such 20 others as we, the said Alfred Coles and William Coles, our 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 25 Man, an Invention for "**IMPROVEMENTS IN THE CONSTRUCTION OF TRUSSES FOR CASES OF HERNIA**," upon the condition (amongst others) that we, the said Alfred Coles and William Coles, our executors or administrators, by an instrument in writing under our, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner 30 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 we, the said Alfred Coles and William Coles, do hereby declare the nature of our said Invention, and in what manner the same 35 is to be performed, to be particularly described and ascertained in and by the



*A. & W. Coles' Improvements in the Construction of Trusses for Cases of Hernia.*

following statement, reference being had to the Drawings hereunto annexed, and to the figures and letters marked thereon, that is to say :—

Our said Invention relates to certain improvements in the construction of trusses, whereby the same truss can be adapted and rendered applicable to  
5 several distinct cases of hernia.

The kind of truss to which our improvements are applicable is that for which Letters Patent, bearing date the Fifth day of July, One thousand eight hundred and twenty-one, and numbered 4567, were granted to William Coles, since deceased, and in which the pads are constructed with spiral springs for  
10 the purpose of adapting and equalising the pressure thereof. In the case of these and of all other trusses hitherto made, it has been necessary to have the trusses expressly manufactured for each description of abdominal hernia, inasmuch as it is requisite that the pads should be at different angles to the body spring, according to the kind of hernia under treatment. This objection  
15 is obviated by our said Invention in the following manner :—A piece of metal, constructed with a longitudinal slot therein, is connected with the body spring of the truss by means of a set screw, which acts as a pivot and works in a smaller slot at one end of the said piece of metal. The front pad is connected by its back with the slotted piece of metal by set screws passing through the  
20 longitudinal slot, thus enabling the pad to be shifted and fixed by means of the set screws, the result being that the truss can be lengthened or shortened, as may be desired, while, by reason of the said slotted piece of metal being pivoted to the body spring, as before mentioned, it can be placed and fixed at any required angle thereto. It will be manifest that by these arrangements  
25 the same truss can be rendered applicable to cases of inguinal, femoral, scrotal, or crural hernia, or, in fact, any other description of abdominal hernia, by simply adjusting, in manner before mentioned, the position of the pad and the angle thereof with reference to the body spring. The posterior end of the body spring is also furnished with a longitudinal slot, whereby the back pad  
30 can be altered and adjusted, set screws being employed for fixing the same, thus affording an additional advantage over the trusses in ordinary use. Although in the preceding description the arrangements requisite for single trusses are only spoken of, yet our said improvements are equally applicable to double trusses.

35 Our Invention will be more clearly understood by reference to the annexed Drawings.

Figures I. and II. in Sheet I. represent respectively a single and a double truss. In Sheet II., Figure I. is the before-mentioned piece of metal, which is attached to the body spring. *a* is the longitudinal slot, and *b* the slot by



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which it is connected with the body spring, *c* being the set screw by which it is pivoted thereto; *d, d*, are the set screws for lengthening or shortening the pad.

Figure II. shews the pad as adjusted for inguinal hernia, Figure III. as placed for femoral hernia, Figure IV. for scrotal hernia, and Figure V. for 5 crural hernia. It may be observed, however, that the last-mentioned Figures are not to be taken as absolutely correct with regard to the angles at which the pads are placed, but only as being illustrative of the mode of adjustment.

Having thus described and ascertained the nature of our said Invention, and the manner in which it is to be performed, we would observe, in 10 conclusion, that what we consider as being novel and original, and therefore claim as our Invention, is the construction of trusses applicable to cases of abdominal hernia in manner herein-before substantially set forth and described.

In witness whereof, we, the said Alfred Coles and William Coles, have 15 hereunto set our hands and seals, this Fifteenth day of September, in the year of our Lord One thousand eight hundred and sixty-two.

ALFRED COLES. (L.S.)

WILLIAM COLES. (L.S.)

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1862.

57  
A. D. 1862. MARCH 15. N<sup>o</sup> 711.  
A. & W. COLE'S SPECIFICATION.

(2 SHEETS.)  
SHEET 1.

FIGURE 1.

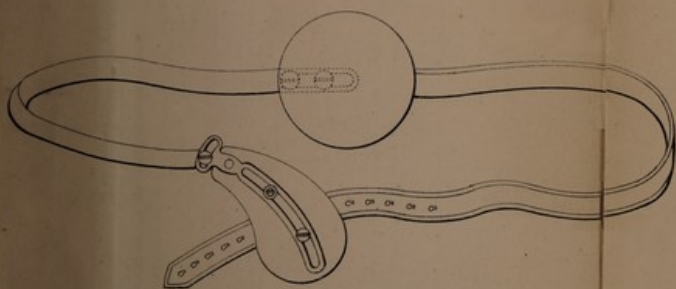
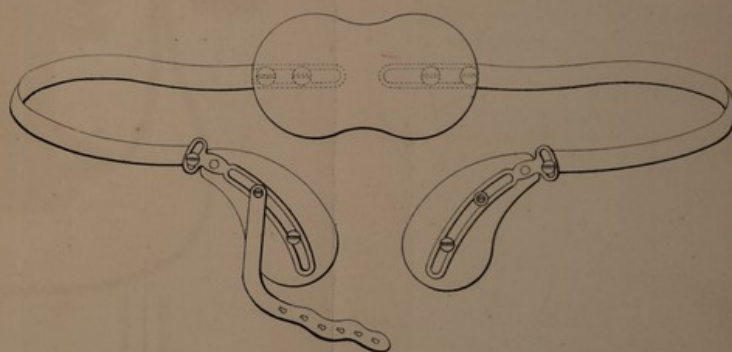


FIGURE 2.



*The filed drawing is not colored.*

Drawn on Stone by Malby & Sons.

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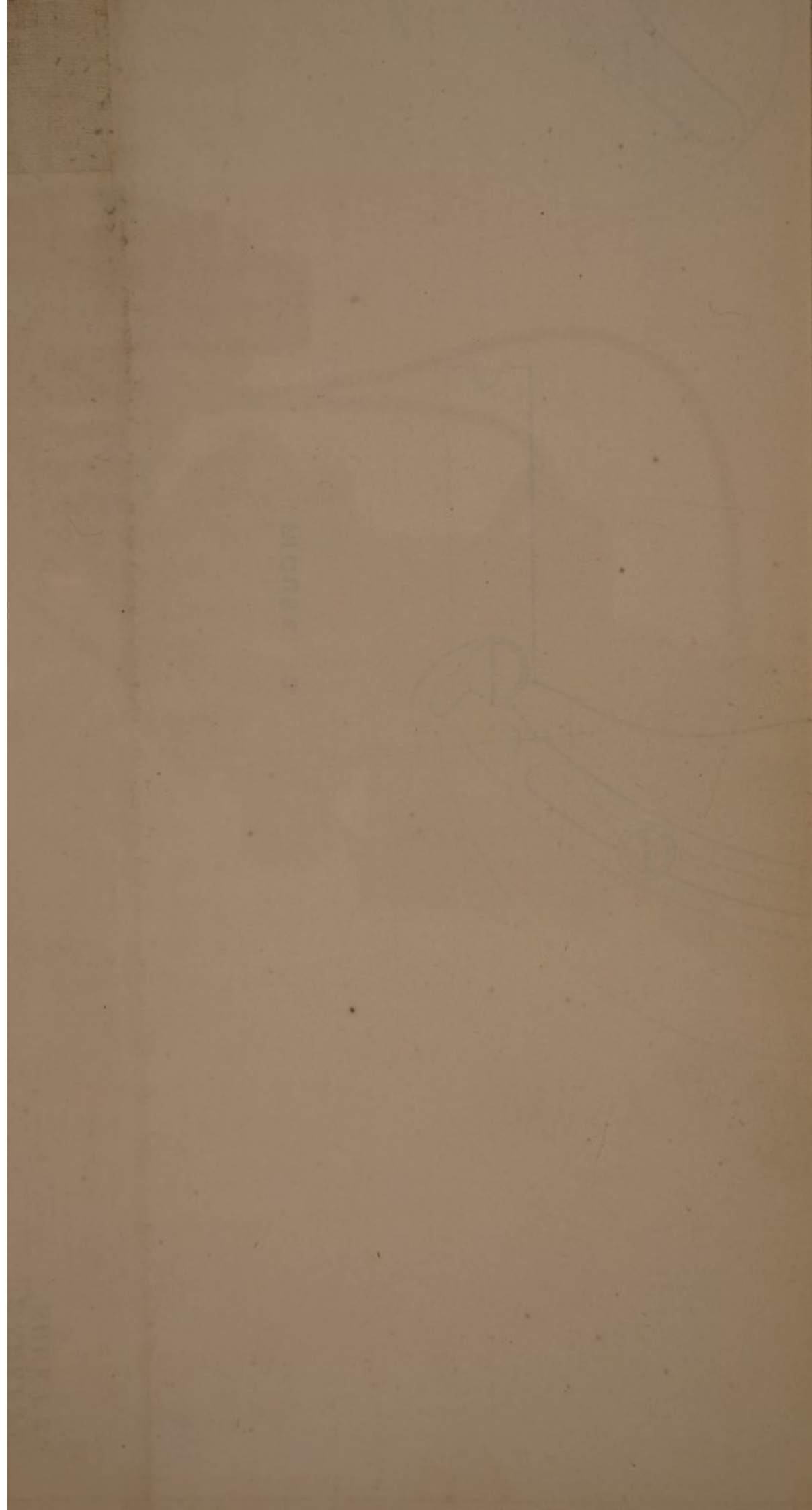


FIGURE 1.

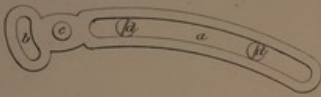


FIGURE 2.



FIGURE 3.

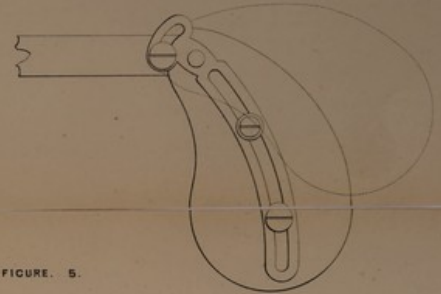


FIGURE 4.

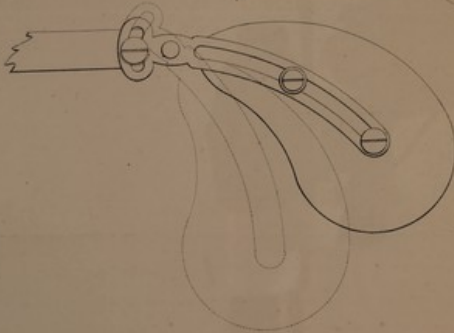
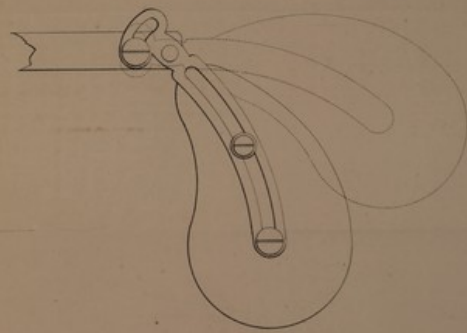


FIGURE 5.



The filed drawing is not colored.



