

Specification of Richard Archibald Brooman : abdominal supporters.

Contributors

Brooman, Richard Archibald.

Publication/Creation

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A.D. 1853 N° 1315.

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

OF

RICHARD ARCHIBALD BROOMAN.

—

ABDOMINAL SUPPORTERS.

—

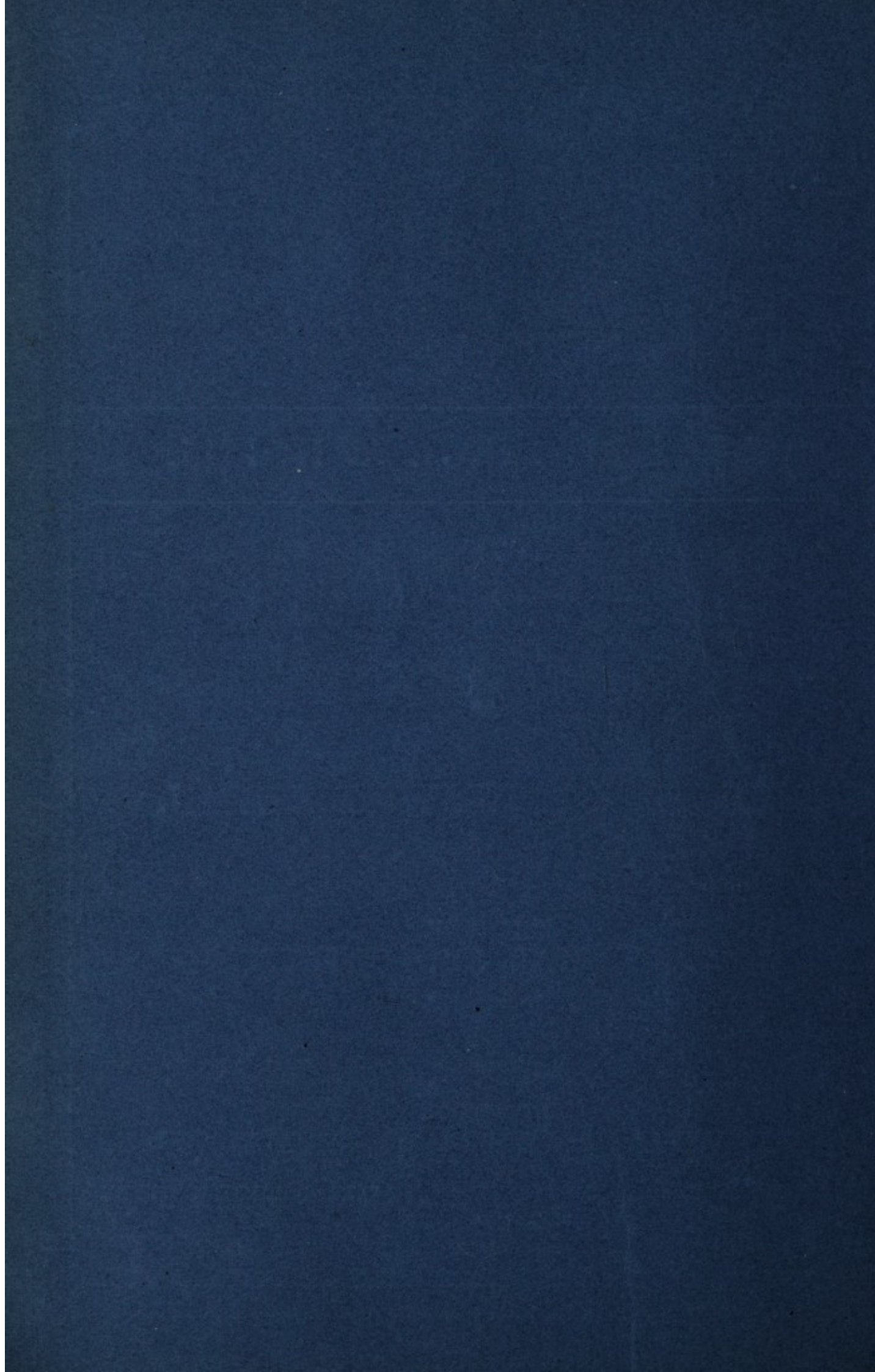
L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET,
NEAR FLEET STREET.

Price 4½d.

1853.





A.D. 1853 N° 1315.

Abdominal Supporters.

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by Richard Archibald Brooman at the Office of the Commissioners of Patents, with his Petition, on the 28th May 1853.—A communication.

I, RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN ABDOMINAL SUPPORTERS**" to be as follows:—

This Invention relates to improvements in abdominal supporters. The improvements consist in the manner of constructing and applying the pressure of the pads. These pads are constructed of horn, shell, wood, or other like material, and are not stuffed or cushioned. The spring braces are so applied as to produce a proper elevation of the bowels for the relief of the abdominal muscles, the resistance at the back being sustained or rather distributed over several points, care being taken to avoid pressure on the spine.

The following is a description of the method of constructing and applying the supporter:—At *a, a*, (Figure 1, of the Drawings annexed,) are two curved pieces of steel forming springs, which are bent in such

Brooman's Improvements in Abdominal Supporters.

a manner as to ride over the hips and follow the curvature of the body. they are cushioned on the inside to prevent the edges chafing the skin. *b*, is the supporting pad, which is held to an adjustable cross bar having links, by which it may be opened or closed to adapt it to various wearers, the ends of the bar being fastened to the steel pieces *a*, as 5 shown.

In order to give the proper angle to the pad, so that it may follow the curvature of the lower part of the bowels, an elliptical spring *e*, is combined with the steel strap, by which it is held to the adjustable cross piece. This tends to keep the supporter down, and allows the 10 abdomen to rest upon it, thereby raising or keeping the abdomen up.

As this pressure is transmitted to the steel springs *a*, they must be prevented from dragging upon the hips and drawing the spine, as it were, over, and producing a sensation of fatigue instead of rest. To avoid this the back is made to take the strain at several points, so dis- 15 tributed that the adjustment will be retained in every position, as represented at *f*, and *g*, Fig. 1. It will be seen that the tendency of the two pads *f*, is to act as a lever (the pad *g*, being the fulcrum) to raise up the front pad *b*, and give the proper support.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1853.

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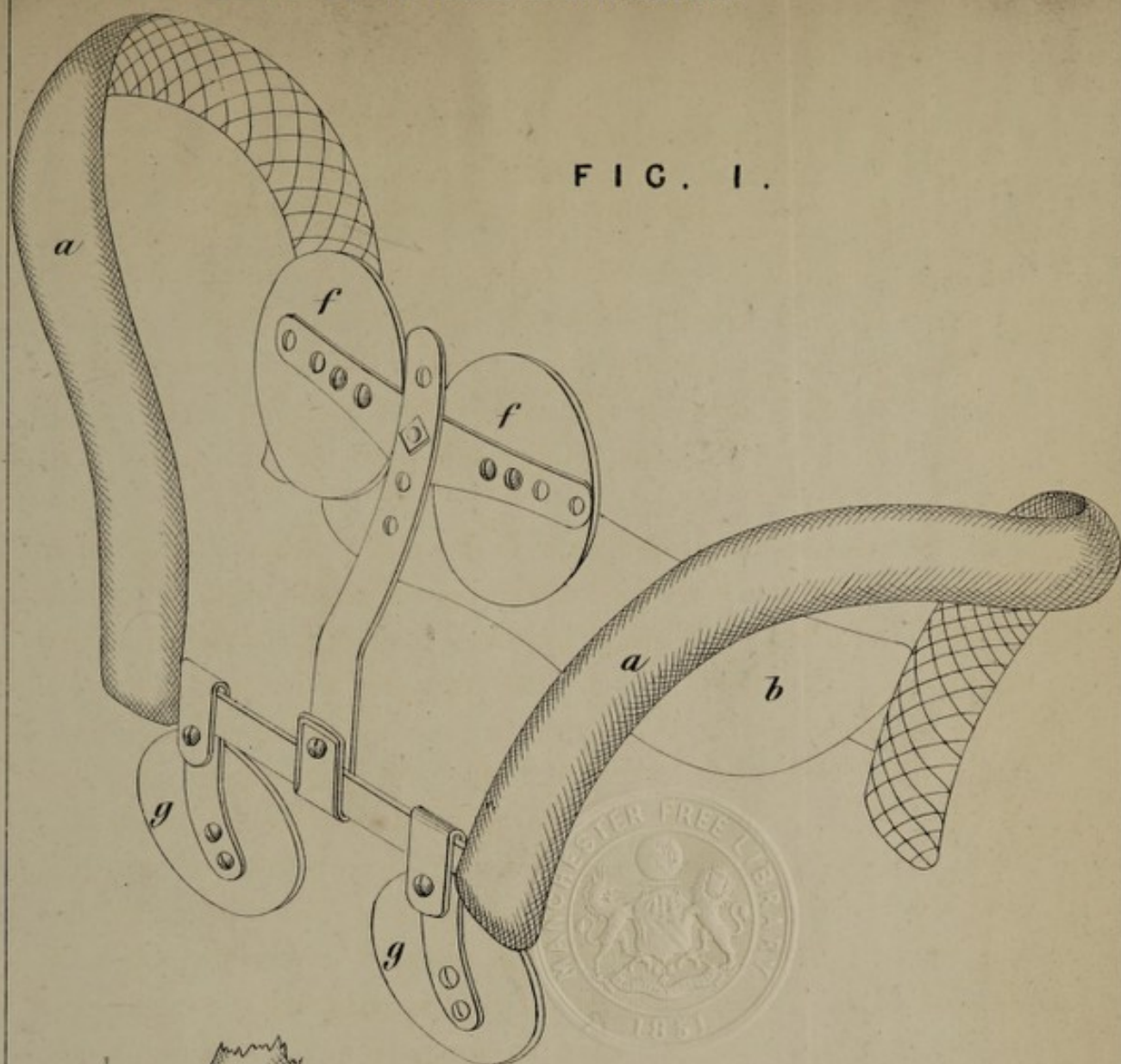
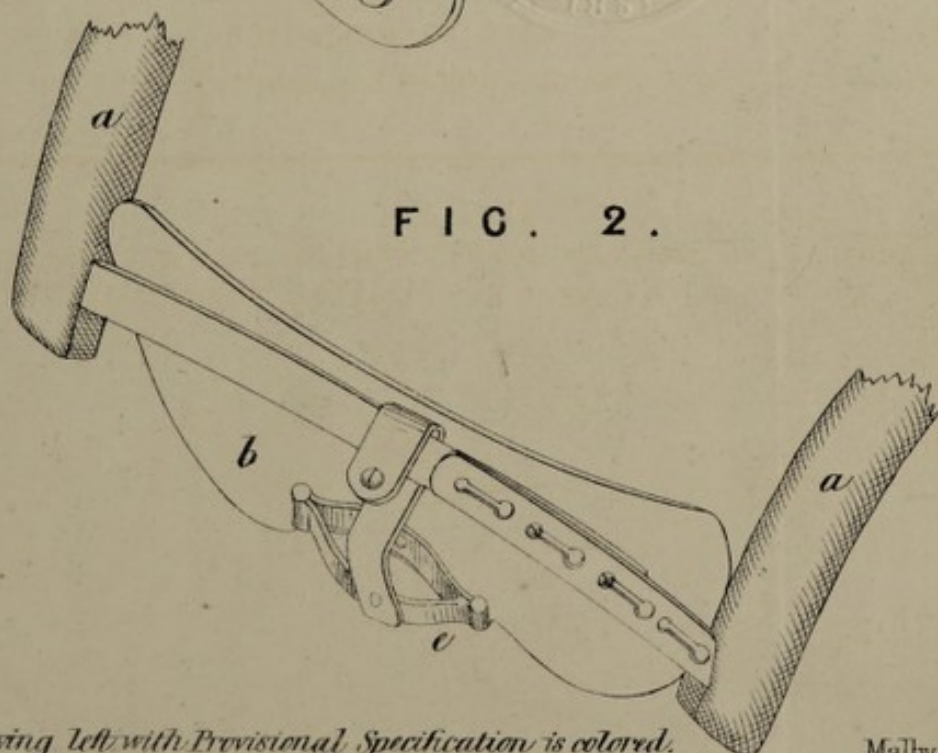


FIG. 2.



The drawing left with Provisional Specification is colored.

Malby & Sons, Lith.

