

No. 703,847.

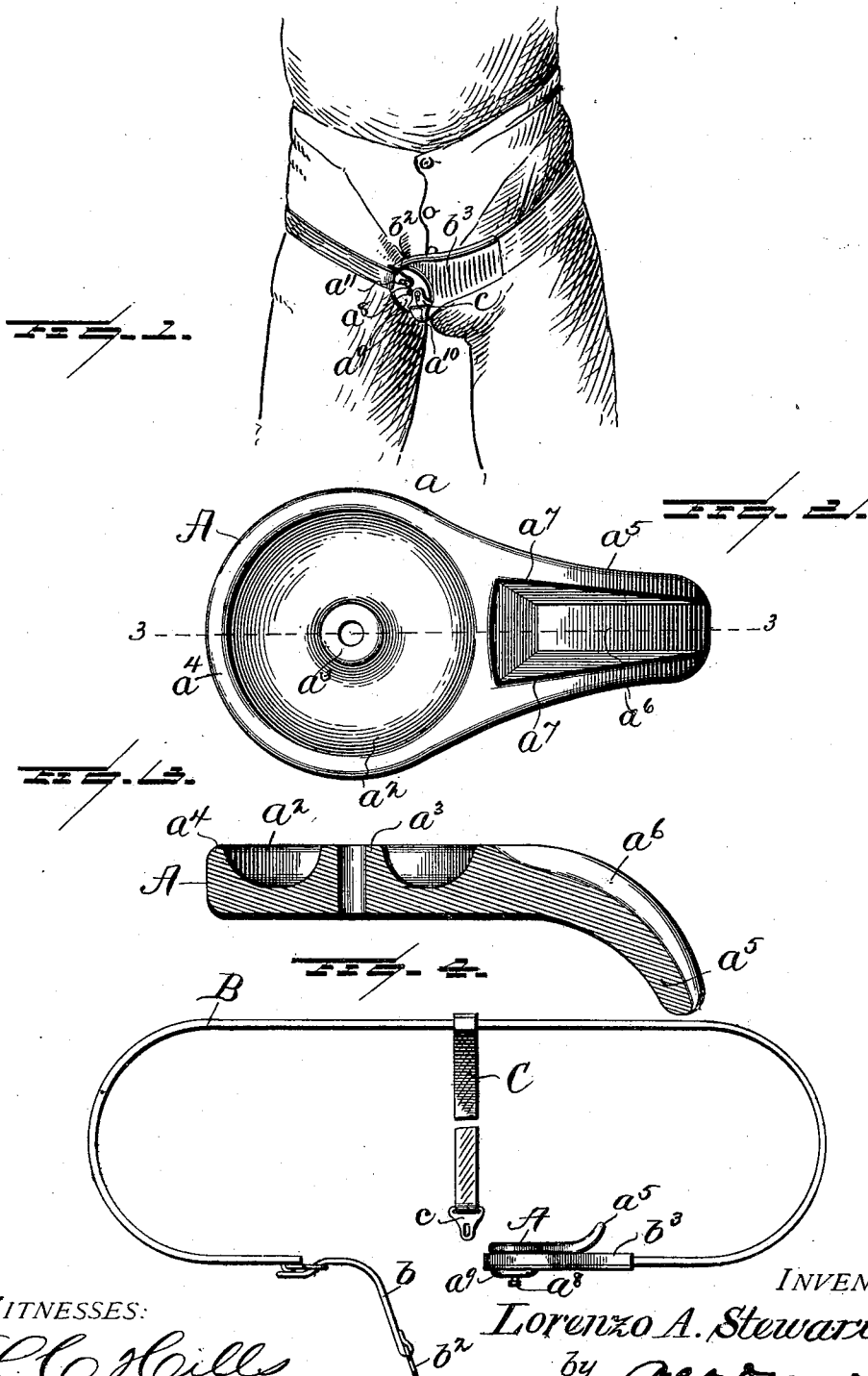
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L. A. STEWART.

HERNIAL TRUSS.

(Application filed Aug. 17, 1900.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## HERNIAL TRUSS.

SPECIFICATION forming part of Letters Patent No. 703,847, dated July 1, 1902.

Application filed August 17, 1900. Serial No. 27,201. (No model.)

*To all whom it may concern:*

Be it known that I, LORENZO A. STEWART, a citizen of the United States, residing at Waukegan, in the county of Lake and State of Illinois, have invented certain new and useful Improvements in Trusses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object is to provide a simply-constructed and thoroughly efficient form of truss for use in cases of inguinal hernia, either external or oblique or internal or direct.

The invention consists in the novel form of truss-pad, together with other features of construction of the truss as a whole, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of the specification, and in which like letters of reference indicate corresponding parts, I have illustrated a form of embodiment of my invention, it being understood that the same may be varied without departing from the spirit of the invention, and in these drawings—

Figure 1 is a view in perspective, exhibiting the trunk of the human figure with the truss positioned thereon. Fig. 2 is a view in plan, exhibiting the pad detached from the truss. Fig. 3 is a view in transverse section, taken on the line 3-3, Fig. 2, exhibiting the construction of the pad; and Fig. 4 is a view in plan, exhibiting the truss as a whole.

Referring to the drawings, A designates the pad, B the waist-strap, and C the center strap. The waist-strap C has adjustably connected with it a short strap b, carrying a plate b<sup>2</sup>, provided with an opening, and the center strap carries a similar plate c, the function of these two plates being described farther on.

The invention resides particularly in the pad. This pad is by preference made of metal, preferably of aluminium, on account of its lightness and its non-oxidizing properties, and is provided with an enlarged head a, which is hollowed out, as at a<sup>2</sup>, for lightness, leaving a center core a<sup>3</sup> and a surrounding rim a<sup>4</sup>. From the head the pad gradually tapers and is curved inward from its securing-belt and toward the body of the wearer to form a horn or finger a<sup>5</sup>. The outer or back-

curved surface of this horn or finger is hollowed out, as shown at a<sup>6</sup>, to present edges or flanges a<sup>7</sup> for engaging with the part carrying the pad, thereby to hold the pad in position against shifting laterally when positioned on the wearer.

The pad-carrying portion b<sup>2</sup> of the waist-strap is constructed, preferably, of leather on the outside and velvet or other soft yielding material on the inside, the particular function of the velvet being to permit the edges or ribs a<sup>7</sup> to sink thereinto, and thus prevent the shifting of the pad in use. The pad is secured in position on the waist-strap by a screw a<sup>8</sup>, which passes through a plate a<sup>9</sup> on the outer side of the strap and into the pad. While the screw is herein shown, it is to be understood that I do not limit my invention to this particular form of holding means, as a rivet or other suitable fastening device may be employed. The plate a<sup>9</sup> carries two headed lugs a<sup>10</sup> and a<sup>11</sup>, arranged on opposite sides of the plate a<sup>9</sup>, the lug a<sup>10</sup> to be engaged by the plate c of the center strap C and the lug a<sup>11</sup> to be engaged by the plate b<sup>2</sup> of the waist-strap.

When the truss is positioned as shown in Fig. 1, the horn or finger a<sup>5</sup> will be caused to press against the inguinal canal, and the plate b<sup>2</sup> will then be brought into engagement with the lug a<sup>11</sup>. The center strap will then be passed between the legs of the wearer on one side of the scrotum and the plate c brought into engagement with the lug a<sup>10</sup>. When thus positioned, the truss will be held in position against shifting, and owing to the manner in which it is constructed and adjusted will be found to be very easy to wear, obviating all inconvenience and pain to the user, such as accompanies the use of most truss-pads employed for the treatment of inguinal hernia.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. As a new article of manufacture, a truss-pad formed with a flat bearing-surface substantially circular in outline and an inflexible horn projecting therefrom, the horn being curved toward the body of the wearer and away from the supporting-strap, substantially as described.

2. A truss-pad comprising a body portion substantially circular in outline, a horn formed integral with the body portion and extending therefrom, the body portion adapted 5 to be centrally pivoted to a securing-strap, thus enabling the horn to be brought to bear upon different portions of the anatomy about the body portion as a center, without altering the application of the body portion, substantially as described.
3. As a new article of manufacture, a truss-pad formed wholly of non-corrosive metal, and having a flat body portion, and a horn or 10 finger, the pad being provided upon its back with projecting ribs, the said horn being curved and adapted to extend inward into contact with the body of the wearer, when the pad is in position, substantially as described.
4. In a truss, the combination with a secur- 15 ing-strap, of a pad, the body portion thereof presenting a flat bearing-surface substantially circular in outline, an inflexible horn integral with the body portion and projecting therefrom, said horn being curved inward to- 20 ward the body of the wearer and away from the securing-strap and terminating beyond the plane of the bearing-surface of the body portion, the body portion centrally pivoted to the securing-strap, thus adapting the 25
- curved horn to be brought to bear upon dif- 30 ferent portions of the anatomy without altering the application of the body portion, substantially as described.
5. A truss comprising a pad formed with a flat body portion and a curved horn or finger 35 hollowed out to form ribs extending therefrom, the said horn being curved and adapted to extend inward into contact with the body of the wearer, when the pad is in position, means for securing the pad to the body of the 40 wearer, and yielding material interposed between the securing means and the ribs of the horn, substantially as described.
6. A truss comprising a waist-strap carrying a plate, a center strap also carrying a 45 plate, a pad carried by the waist-strap, the pad having a flat body portion, and a curved horn or finger, the horn or finger having its back formed with one or more ribs and yield- 50 ing material interposed between the waist-strap and the ribs, substantially as described.
- In testimony whereof I affix my signature in the presence of two subscribing witnesses.
- LORENZO A. STEWART.
- Witnesses:  
M. LUCY BREWSTER,  
E. J. HEYDECKER.