No. 754,386.

PATENTED MAR. 8, 1904.

C. P. NORRIS.

HERNIA TRUSS.

APPLICATION FILED JUNE 16, 1903.

NO MODEL.

Fig. 1.

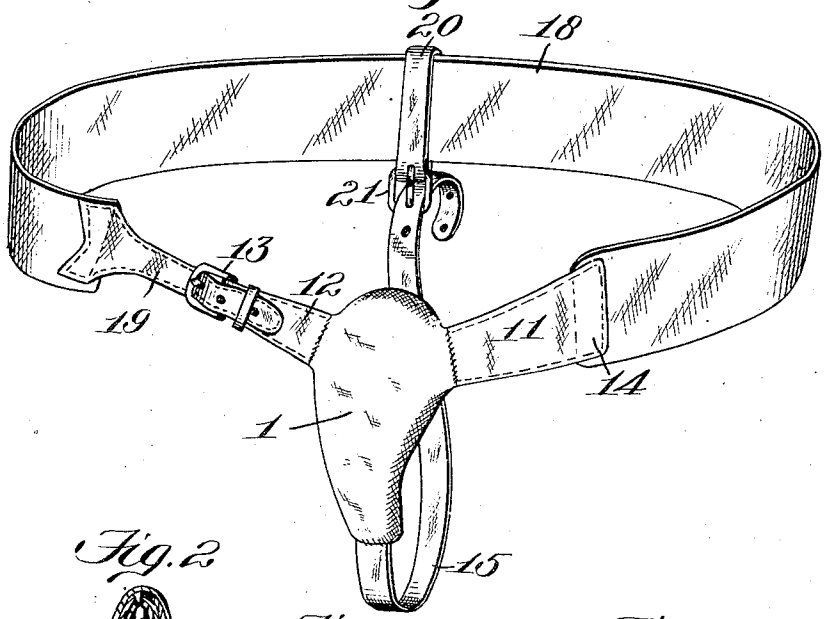


Fig. 2.

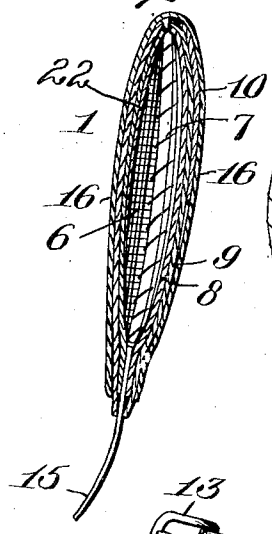


Fig. 3.

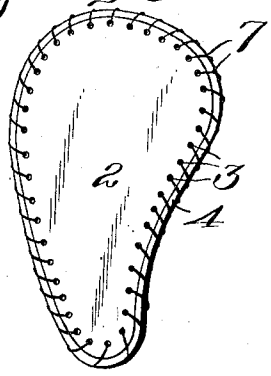


Fig. 4.

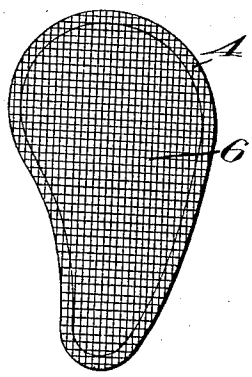


Fig. 5.

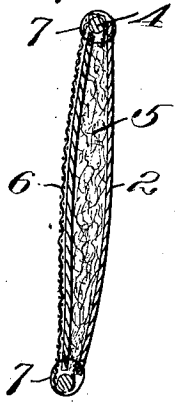


Fig. 6.

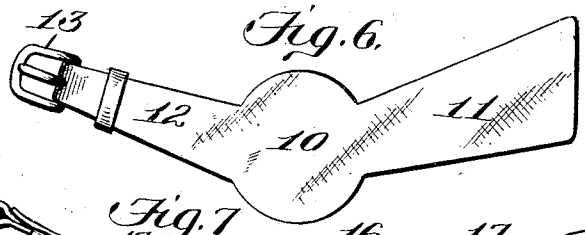
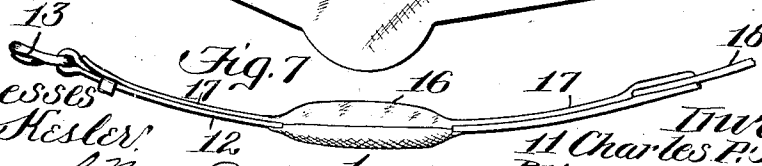


Fig. 7.



Witnesses
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Atty.

No. 754,386. Patented March 8, 1904.

UNITED STATES PATENT OFFICE.

CHARLES PRINCETON NORRIS, OF CHAMBERSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-THIRD TO GEORGE L. SNIDER, OF WASHINGTON, DISTRICT OF COLUMBIA.

HERNIA-TRUSS.

SPECIFICATION forming part of Letters Patent No. 754,386, dated March 8, 1904.

Application filed June 16, 1903. Serial No. 161,727. (No model.)

To all whom it may concern:

Be it known that I, CHARLES PRINCETON NORRIS, a citizen of the United States, residing at Chambersburg, in the county of Franklin and State of Pennsylvania, have invented new and useful Improvements in Trusses, of which the following is a specification.

This invention relates to certain new and useful improvements in trusses and is especially designed for use in cases of rupture, and aims to provide a truss for the purpose set forth so constructed that the truss-pad is not provided with any metallic fastening means which is liable to injure the person using the truss by chafing or, as is generally the case, by injuring the wearing-apparel of the user of the truss.

The invention further aims to construct a truss for the purpose set forth which when in position will not inconvenience the wearer, particularly when it is desired to cross the limbs when in a sitting position.

The invention further aims to construct a truss for the purpose set forth which when in position will not move over the hips of the wearer, but will remain in the position originally set.

The invention further aims to provide a truss for the purpose set forth having its pad so constructed that when in position it will fit around the scrotum and the penis and lie close to the pelvis-bone.

The invention further aims to construct a truss for the purpose hereinbefore set forth which shall be extremely simple in its construction, strong, efficient in its use, readily attachable in position, not injuring the wearer when in use, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists in the novel combination and arrangement of parts hereinafter more specifically described, illustrated in the accompanying drawings, and particularly pointed out in the claims hereunto appended.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like reference characters denote corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of my new and improved trust. Fig. 2 is a vertical sectional view of the truss-pad. Fig. 3 is a front elevation of the base of the truss-pad. Fig. 4 is a rare elevation of the base of the truss-pad. Fig. 5 is a vertical sectional view of the base of the truss-pad. Fig. 6 is an elevation of the wing-piece, and Fig. 7 is a top plan view of the truss.

Referring to the drawings by reference characters, the truss-pad 1 is substantially pear-shaped, but having one side cut away in a curvilinear manner, so that the pad when set will fit around the scrotum and the penis. The pad 1 is constructed of a plate 2, of metal or other suitable stiff material, that will substantially hold its rigidity after being bent, if necessary. The plate 2 is provided with a continuous row of perforations 3 near its edge for a purpose to be hereinafter referred to. The plate 2 lies against a wire frame 4 of substantially the same contour as the said plate 2, and the frame 4 is adapted to surround a packing 5, of leather or other suitable material, which is mounted upon the plate 2. The packing 5 is inclosed by means of a piece of wire-gauze 6, which extends over the front of the packing and is secured to the frame 4. The frame 4 and wire-gauze 6 are connected to the plate by means of a wire or other suitable fastening means 7, which extends around the frame 4 through the gauze 6 and the openings 3 in the plate 2. The plate 2, wire frame 4, and packing 5 will be hereinafter referred to generally as the "base" of the truss-pad. That side of the base formed by the wire-gauze will be termed the "inner face," and that part of the base formed by the plate 2 will be termed the "outer face," of the base. The wire-gauze 6 permits the perspiration to pass to the packing 5, where it is absorbed. This has a tendency to keep the inner face of the truss-pad 1 dry, as the perspiration can pass through the coverings of the base, to be hereinafter referred to, and through the gauze 6 into the packing 5. The gauze 6 also permits of the

packing 5, when the pad 1 is not in use, to rapidly dry out. The base is inclosed by a primary chamois-skin or other suitable covering 8, and the lower end of the said covering 8 projects a suitable distance below the lower end of the base, so that the said covering can be bent when securing pad 1 in position. The primary covering 8 is inclosed by an auxiliary covering 9, of leather or other suitable material, and the lower end of the said covering 9 projects below the end of the base, so that the lower end of the pad 1 can be bent when desired, or, in other words, the two coverings 8 and 9 are of such length as to form the lower end of the pad 1 flexible. The coverings 8 and 9 are secured in position by suitable stitching, and the primary covering 8 snugly engages the base, and the auxiliary covering 9 snugly engages the covering 8. The outer face of the covering 9 has secured thereto a wing-piece comprising a body portion 10, carrying a pair of lateral wings 11 12, which extend in opposite directions, but upwardly at an inclination. These wings 11 12 are of less width than the supporting-band, to be hereinafter referred to. The wings 11 12 extend upwardly at an inclination, so that the supporting-band, to be hereinafter referred to, can be passed around the waist, and when the truss is in position the supporting-band will not ride over the hips or work its way upward on the body. The providing of the wings 11 12 of such width and the manner in which they extend will permit of the user crossing his limbs when in a sitting position, for the reason that the supporting-band will not interfere in any manner. The wing 12 is provided with a buckle 13, and the wing 11 is secured, as at 14, to one end of the supporting-band. The lower end of the primary covering 8 has secured thereto the depending strap 15, which passes between the limbs of the wearer and is connected to the supporting-band in the manner as hereinafter referred to. The primary covering 9 is inclosed by a chamois-skin or other suitable covering 16, and the inner face of the wings 11 12 has a chamois-skin or other suitable lining 17, the lining being connected to the wings in any suitable manner.

The reference character 18 denotes the supporting-band, which may be of any suitable material, and is adapted to be passed around the waist of the user of the truss. As before stated, one end of the band 18 is connected to the wing 12, the free end of the wing 12 being slightly enlarged for this purpose. The other end of the band 18 is provided with the strap 19, which is adapted to engage the buckle of the wing 11 for securing the band around the waist of the wearer. The band 18 carries an adjustable loop 20, having a buckle 21, which is adapted to be engaged by the strap 15 for securing the truss-pad 1 in position.

The inner face of the pad 1 near its upper end bulges outwardly somewhat, which can be obtained by having that part of the auxiliary covering 9 thickened or by the interposition of a small piece of suitable material between the primary covering 8 and the base. This piece of material is indicated by the reference character 22.

When the truss-pad 1 is constructed in the manner as hereinbefore set forth, it can be readily bent to fit the user; but the base of the truss-pad 1 is constructed of such material that after being bent to the desired shape it will be substantially rigid. The various coverings, hereinbefore set forth, and the wire-gauze, which is preferably copper, and the packing will make the inner face of the truss-pad slightly elastic. The curvilinear portion of the truss-pad 1 is of such shape as to fit around the scrotum and the penis, and consequently when the pad 1 is in position the wearer will not be placed to any inconvenience whatsoever.

The manner of securing the various coverings around the base by stitching and the employment of the wings 11 12 in the manner as hereinbefore set forth dispenses with the use of any metallic fastening devices, which invariably injure the wearer of the truss or the wearing-apparel of the user of the truss. Furthermore, as the outer covering is of chamois-skin or other soft material all chafing of the user is overcome. The coverings are so secured in position around the base as to form the edges of the truss-pad in a rounded manner, and which substantially forms a cushion, thereby not injuring the user in any manner.

It is thought the many advantages of my improved truss can be readily understood from the foregoing description, taken in connection with the accompanying drawings, and it will, furthermore, be evident that changes, variations, and modifications can be resorted to without departing from the spirit of the invention or sacrificing any of its advantages, and I therefore do not wish to restrict myself to the details of construction as herein described, and shown in the accompanying drawings, but reserve the right to make such changes, variations, and modifications as come properly within the scope of the protection prayed.

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

1. A truss-pad substantially pear-shaped in contour, provided with a pair of upwardly-extending inclined wings and having one side cut away in a curvilinear manner.

2. A truss-pad substantially pear-shaped in contour, provided with a pair of upwardly-extending inclined wings, a flexible lower end and having one side cut away in a curvilinear manner.

3. A truss-pad provided with a pair of up-

wardly-extending inclined wings and with a flexible lower end.

4. A truss-pad provided with a pair of upwardly-extending inclined wings, a flexible lower end and having one side cut away in a curvilinear manner.

5. A truss-pad provided with a pair of upwardly-extending inclined wings, a flexible lower end and having one side cut away in a curvilinear manner and a strap secured to said lower end.

6. A truss comprising a pad having one side cut away in a curvilinear manner, a pair of upwardly-extending inclined wings and a strap connected to the bottom thereof, a supporting-band secured to one of said wings and adapted to be connected to the other of said wings, and a loop carried by said band and adapted to be connected to said strap.

7. A truss consisting of a flexible pad having its lower end of greater flexibility than its remaining portion, a pair of upwardly-extending inclined wings and a strap secured to said lower end, a supporting-band having one end secured to one of said wings and its other end adapted to be connected to the other of said wings, and a loop carried by said band and adapted to be connected to said strap.

8. A truss consisting of a flexible pad having its lower end of greater flexibility than its remaining portion, a pair of upwardly-extending inclined wings, a strap secured to said lower end, said pad having one side cut away in a curvilinear manner, a supporting-band having one end secured to one of said wings and adapted to have its other end connected to the other of said wings, and a loop carried by said band adapted to be connected to said strap.

9. A truss-pad comprising a metallic base provided with a packing and a plurality of coverings of flexible material enveloping said base, and a pair of upwardly-extending inclined wings secured to an inner one of one of said coverings.

10. A truss-pad comprising a metallic base cut away at one side in a curvilinear manner and provided with a packing and a plurality of coverings of flexible material enveloping said base, and a pair of upwardly-extending inclined wings secured to an inner one of one of said coverings.

11. A truss-pad comprising a metallic base provided with a packing, a plurality of coverings of flexible material enveloping said base, a pair of upwardly-extending inclined wings secured to an inner one of one of said coverings, and a strap secured to the lower end of an inner one of one of said coverings.

12. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame and a packing interposed between said gauze and plate, and a plurality of coverings of flexible material enveloping said base.

13. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame and a packing interposed between said gauze and plate, and a plurality of coverings of flexible material enveloping said base, said coverings projecting below said base to form said pad with a flexible lower end.

14. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate and a plurality of coverings of flexible material enveloping said base, and a pair of upwardly-extending wings secured to an inner one of one of said coverings.

15. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate and a plurality of coverings of flexible material enveloping said base, said coverings projecting below said base to form said pad with a flexible lower end, and a pair of upwardly-extending wings secured to an inner one of one of said coverings.

16. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate and a plurality of coverings of flexible material enveloping said base, a pair of upwardly-extending wings secured to an inner one of one of said coverings, and a strap secured to the lower end of an inner one of one of said coverings.

17. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate and a plurality of coverings of flexible material enveloping said base, said coverings projecting below said base to form said pad with a flexible lower end, a pair of upwardly-extending arms secured to an inner one of one of said coverings, and a strap secured to the lower end of an inner one of one of said coverings.

18. A truss-pad comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate and a plurality of coverings of flexible material enveloping said base, said base cut away at one side in a curvilinear manner, and said coverings conforming in shape to said base, a pair of upwardly-extending wings secured to an inner one of one of said coverings, and a strap secured to the lower end of an inner one of one of said coverings.

19. A truss comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate, a plurality of coverings of flexible material en-

veloping said base, said base cut away at one side in a curvilinear manner and said coverings conforming in shape to said base, a pair of upwardly-extending wings secured to an inner one of one of said coverings, a strap secured to the lower end of an inner one of one of said coverings, a supporting-band secured to one of said wings and adapted to be connected to the other of said wings, and a loop carried by said band and adapted to be connected to said strap.

20. A truss comprising a base consisting of a metallic plate, a wire frame secured thereto, a wire-gauze secured to said frame, a packing interposed between said gauze and plate, a plurality of coverings of flexible material enveloping said base, said coverings projecting below said base to form said pad with a flexible lower end, a pair of upwardly-extending arms secured to an inner one of one of said coverings, a strap secured to the lower end of an inner one of one of said coverings, a supporting-band secured to one of said wings and adapted to be connected to the other of said wings, and a loop carried by said band and adapted to be connected to said strap.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES PRINCETON NORRIS.

Witnesses:
R. O. NAPPER,
JOHN L. ETCHBERGER.