

A. ADAMSON.
Trusses.

No. 200,160.

Patented Feb. 12, 1878.

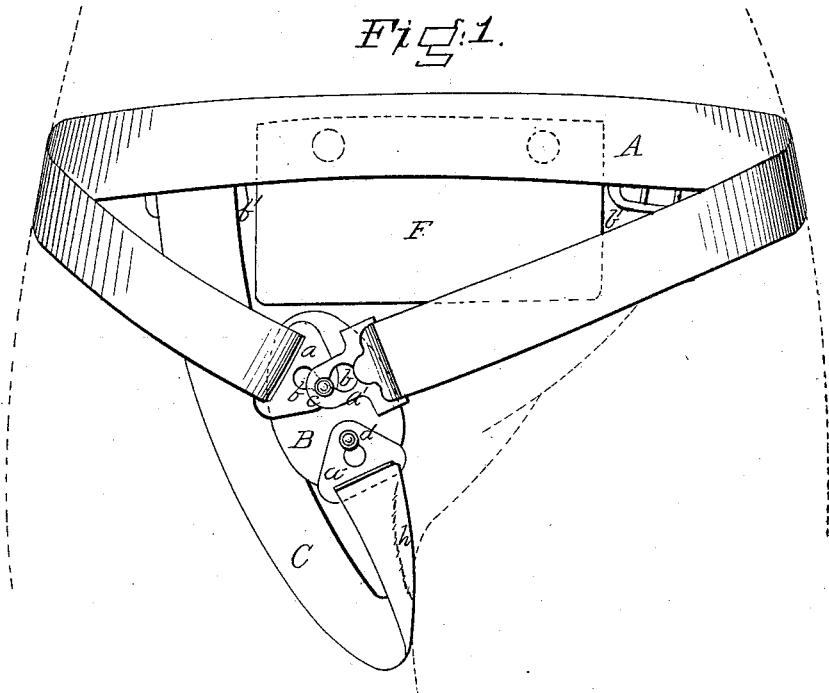


Fig. 2.

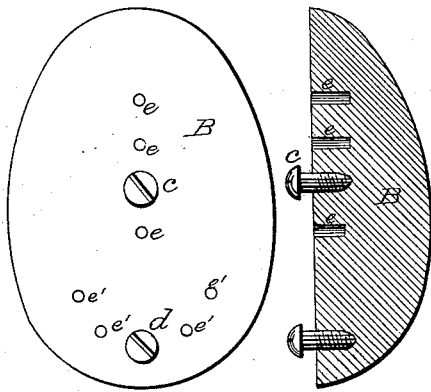
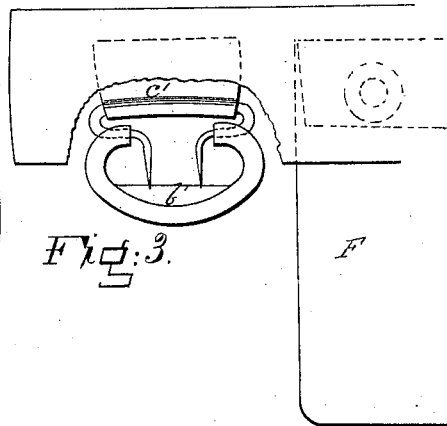


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALEXANDER ADAMSON, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN TRUSSES.

Specification forming part of Letters Patent No. **200,160**, dated February 12, 1878; application filed July 21, 1877.

To all whom it may concern:

Be it known that I, ALEXANDER ADAMSON, of Washington, in the county of Washington and District of Columbia, have invented a new and valuable Improvement in Trusses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a front view of this invention applied. Fig. 2 is a back view of the pad. Fig. 3 is a longitudinal section of the pad. Fig. 4 is a partial back view, showing the tag and buckle and one end of the money-belt.

This invention has relation to hernial trusses; and it consists in the construction and novel arrangement of the wooden pad, having an adjustable middle screw-stud in its plane back for the attachment of the waist-belt ends, and below the same in said back an adjustable screw-stud for the attachment of the front end of the crotch-strap, in combination with the hip-strap and crotch-strap, all as hereinafter fully shown and described.

The object of this invention is to provide a truss which, because of the relation of its attachments for the fastening belts and strap, shall preserve in a fixed manner the position in the groin to which it may be adjusted, and shall have a steady upward pressure at its lower end, or against the hernial opening.

In the accompanying drawing, the letter A designates the main or horizontal belt, which is passed around the upper portion of the hips to sustain the pad. Its ends are provided, one with a metallic plate, *a*, and the other with a buckle, *a'*, which have elongated slots *b*, enlarged at one end for the reception of the central screw-stud of the pad.

B designates the pad, which is of wood, and may be made in any of the most approved forms. Its back is flat, and is provided with two or more screws, for the attachment of the belt and strap in the following manner: The stud *c* is located centrally, or as near the center of the back of the pad as shall suit the convenience of the wearer, reference being

had to the position of the hernial opening. Adjusting-holes *e* may be provided above and below the center, for convenience in adjusting the screw, although, if it be made of soft wood, the wearer will have no difficulty in making holes in the proper place when the screw needs adjustment. Below this screw, and nearer the lower margin, is located a second screw, *d*, for the attachment of the front or scrotal end of the crotch-strap C, which is provided with a slotted plate, *a*², for the purpose of convenient attachment and detachment. This strap is rolled over some soft wadding along its front portion, forming an elongated edge cushion, *h*, to prevent chafing in the crotch, and its rear end is connected to the belt A at either side, behind, according to the side of the hernia, by means of buckles *b'* attached to the belt by tags *e'*.

The screw-stud *d* is also made adjustable by means of lateral adjusting-holes *e'*, so that the upward pressure of the lower portion of the pad may be regulated to suit the requirements of the parts which are involved at the hernial opening.

Both ends of the main or hip strap are attached by means of the detachable plate and buckle to the central screw, and the object of this construction is, by centering these ends of the belt in this stud, to prevent leverage between the two ends, as would be the case were they separately attached to independent studs, and consequently to secure for the pad a steady position in the groin, despite the workings of the muscles of the hips in walking or other exercise.

The position of the central portion of the pad being thus assured, the crotch-strap is brought forward, and attached by its plate to its screw-stud at the lower portion of the pad, whereby it is designed to effect a steady pressure of the pad on the hernial spot. As the tension is always from the central stud, there will not be any lateral or vibratory working of the pad, as would be the case were the belt ends attached to separate studs of the pad. At the same time there is an upward pressure on the hernial opening, which is sought for by sufferers under this affliction, and which can be regulated by the simple means of adjust-

ment afforded in the construction to suit the circumstances of cases differing in minor particulars.

The hip-belt is adjusted to the size of the wearer by means of the buckle *a*¹ at its end, and the crotch-strap is also adjustable to give the proper pressure by means of the buckle *b*¹. Between the buckles *b*¹, to the back of the belt, is attached a sack or bag, *F*, by means of buttons and button-holes, so that it can be detached when desired. It is designed to hold money or valuable papers, and serves to dispense with a separate money-belt for travelers.

What I claim as new, and desire to secure by Letters Patent, is—

In a truss, a wooden pad having an adjustable middle screw-stud, *c*, in its flat back for the attachment of the waist-belt ends, and below the same in said back an adjustable screw-stud, *d*, for the attachment of the front end of the crotch-strap, in combination with the hip-strap *A* and crotch-strap *C*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALEXANDER ADAMSON.

Witnesses:

FRANK J. MASI,

FRANK GALT.