

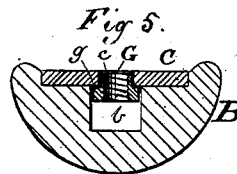
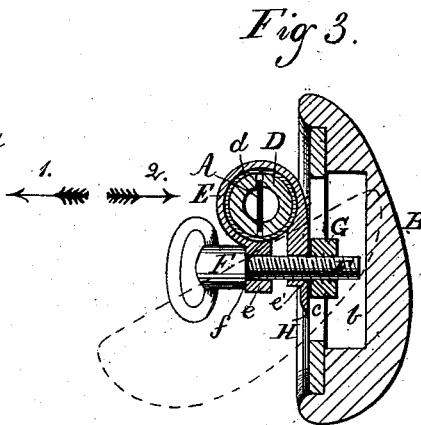
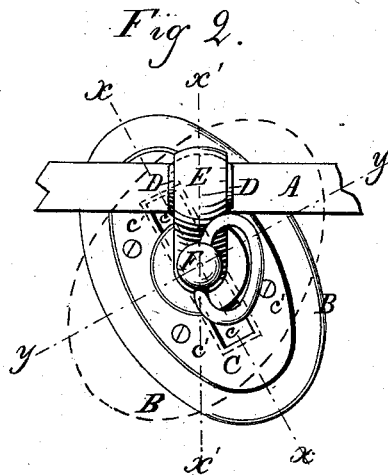
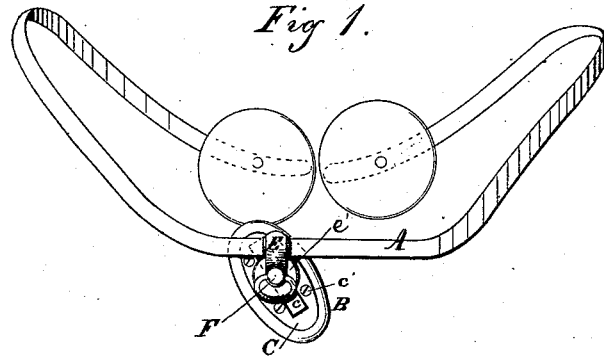
(No Model.)

A. GIRALT.

TRUSS.

No. 347,171.

Patented Aug. 10, 1886.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ALBERTO GIRALT, OF CARDENAS, CUBA.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 347,171, dated August 10, 1886.

Application filed June 26, 1886. Serial No. 206,313. (No model.)

To all whom it may concern:

Be it known that I, ALBERTO GIRALT, a citizen of Spain, and a resident of Cardenas, on the Island of Cuba, have invented certain new and useful Improvements in Hernia-Trusses, of which the following is a specification.

My invention relates to hernia-trusses, and has for its object to provide a simple and improved construction, whereby the pad, which directly presses upon the hernia, will be capable of adjustment not only as to elevation, but also as to vertical and lateral inclination.

The invention will be hereinafter fully described, and specifically pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 represents a front view of a hernia-truss constructed according to my present invention. Fig. 2 is a front view of the pad and portion of the band of the same, shown on a larger scale than in Fig. 1. Fig. 3 is a longitudinal section of the pad taken on the line *x x* of Fig. 2, and of its fastening and band, taken on the line *x' x'* of Fig. 2, and seen in the direction of arrow 1. Fig. 4 is a detail view of a split ball which forms a part of the joint by which the pad is secured to the truss-band, the detail being seen from the same side as in Fig. 2, or at right angles to it, as shown in Fig. 3—that is, in the direction of arrow 2. Fig. 5 is a cross-section on the line *yy* of Fig. 2, showing only the pad proper, the slotted plate attached thereto, and the threaded slide-block in the slot.

A is the truss-band, and is a flat metal band, as shown in Figs. 1, 2, 3.

B is the ordinary pad, of wood or other suitable material, and is provided longitudinally with a recess, *b*. The upper or outer surface of the pad is covered by a metallic plate, C, which is secured to the pad by means of small screws *c'*, and has longitudinally above and in line with the recess *b* a slot, *c*.

D is a ball made in two halves to clamp and embrace the band A, as in Figs. 2 and 3, and in order to keep the two halves of the ball from lateral displacement, before the ball is inserted in the socket, as will be presently described, a groove is turned in the surface of the ball D, transversely or at right angles to the band A, and a split ring, *d*, (see Figs. 3

and 4,) is sprung over the ball D into the groove, thus holding the two halves together.

In order to connect the pad B to the band A, the said ball D, surrounding the band, is clamped into a corresponding socket, which is formed of a friction-band or friction-clip, E, which has perforated lugs *e e'*, (the latter, *e'*, being extended in the shape of a flat disk, as shown in Figs. 2 and 3,) by which and a screw, F, having a shoulder at *f*, they are pressed toward each other, thereby clamping the ball D in the clip. For this purpose a block, G, threaded to receive the screw F, and flattened on opposite sides to fit and slide in the slot *c*, is arranged within the socket *b*, underneath the plate C, and the portion of the said block G below the slot *c* is wider than the slot, so as to form shoulders *g* on opposite sides, which act as stops against the plate C, so that when the screw F is passed through the lugs *e e'* and turned into the said slide block or nut G the lug or disk *e'* will be secured against the plate C of the pad B, at the same time forcing the lug *e* toward the lug *e'*, and thereby tightly clamping the friction-clip E around the ball D, and tightening the latter upon the band A. A washer, H, of cloth, rubber, leather, or other material suitable to produce friction, is interposed between the disk *e'* and the plate C, so as to assist in retaining the pad B at any lateral inclination to which it may be turned with relation to the position of the clip E—as, for instance, in the position indicated in dotted line in Fig. 2, or in full line in the same figure, or in position in which the long axis of the pad may be placed parallel with the band A. It is evident that the elevation of the pad may be adjusted by simply sliding it upon the block G, which fits the width of the slot *c*, and then tightening it by the screw F in the adjusted position; or, if it is desired to incline the pad to the vertical, or in a plane at right angles to that of the lateral inclination just above mentioned—for instance, as indicated by the dotted line in Fig. 3, it is only necessary to loosen the screw F a little and turn the clip-socket E upon the ball D until the pad has assumed the desired inclination, and then again tighten the screw F.

It will be seen that by the simple fastening device consisting of the ball D, band A, slotted

plate C, and slide-nut and screw G F the pad B may be raised, lowered, inclined laterally in the same plane, or vertically in a plane at right angles thereto in any desired position.

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

1. In combination with the truss band A and pad B, the ball D, encircling the said band, the
10 friction-band E, encircling the said ball, and having perforated lugs *e e'*, and a screw, F, passing through the said lugs and secured to the said pad, substantially as and for the purpose set forth.

15 2. The combination of the pad B, provided longitudinally with a slot, *c*, and a threaded block or nut, G, fitted to slide without turning in the said slot, with the band A, the ball D, surrounding the said band, the friction-band
20 E, surrounding the said ball, and having perforated lugs *e e'*, and the screw F, passing

through the said lugs and threaded into the said slide-nut G, substantially as and for the purpose set forth.

3. In combination with the pad B and truss- 25 band A, the ball D, made in two halves and surrounding the said truss-band, the friction band or clip E, encircling the said ball and secured to the said pad, the said ball D having transversely to the said band a circumferen- 30 tial groove, and a ring, *b*, in the said groove for holding the two parts of the ball together upon the said truss-band.

In testimony that I claim the foregoing as my invention I have signed my name, in pres- 35 ence of two witnesses, this 10th day of June, 1886.

ALBERTO GIRALT.

Witnesses:

A. W. ALMQVIST,
R. DOMINGUEZ.