(No Model.)

G. V. HOUSE, Jr.

TRUSS PAD.

No. 456,823. Patented July 28, 1891.

Fig. 1.

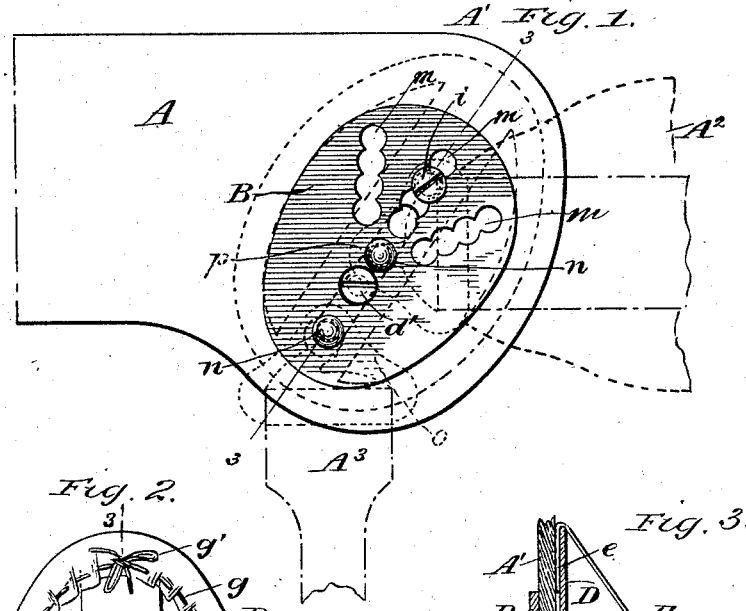


Fig. 2.

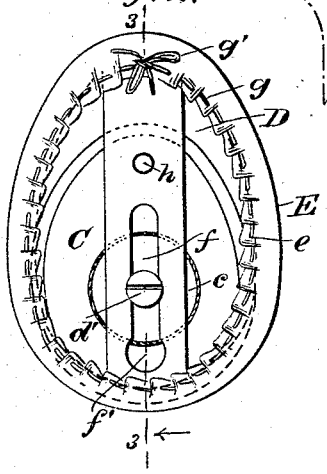


Fig. 3.

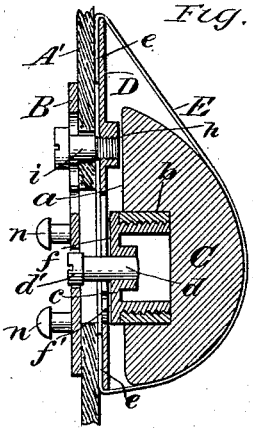
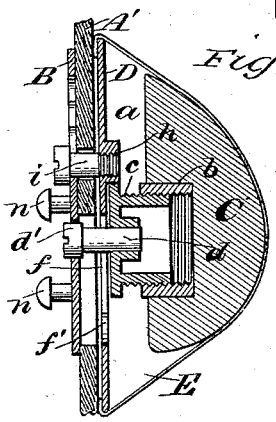


Fig. 4.



WITNESSES:

W. R. Dame

C. Sedgwick

INVENTOR:

G. V. House Jr.

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE V. HOUSE, JR., OF NEW YORK, N. Y.

TRUSS-PAD.

SPECIFICATION forming part of Letters Patent No. 456,823, dated July 28, 1891.

Application filed April 4, 1891. Serial No. 387,580. (No model.)

To all whom it may concern:

Be it known that I, GEORGE V. HOUSE, Jr., of New York, in the county and State of New York, have invented a new and useful Improvement in Truss-Pads, of which the following is a full, clear, and exact description.

The object of this invention is to improve the construction of the truss invented by me and fully described in my application, Serial No. 375,562, filed December 23, 1890, and allowed March 23, 1891, whereby the production is cheapened and a more convenient lighter device is afforded.

To this end my invention consists in the peculiar construction of parts, and their combination, as is hereinafter described and claimed.

Reference is to be made to the accompanying drawings, forming a portion of this specification, in which similar letters of reference indicate corresponding parts in all the views.

Figure 1 is an exterior view of connected truss-band end portions, partly in dotted lines, showing part of the pad-support on which a patent is allowed. Fig. 2 is a detached view of the truss-pad complete, showing its surface that is normally in contact with the truss-band end that it is connected with. Fig. 3 is a longitudinal section of the pad, showing the improvement in one position of adjustment; and Fig. 4 is a longitudinal section on the same line with Fig. 3, indicating another adjustment of parts.

In the device which the present invention is intended to improve, as before mentioned, a movable pad-bulb of ovate form is shown, which is held upon a carrier-plate by a contractile marginal flange, which embraces the edge of the carrier-plate, said bulb, as shown and described, being made of partly elastic material, such as gum, vulcanized or otherwise and slightly elastic.

In the manufacture of cheaper grades of trusses it is found that good results can be secured by using a rigid pad-bulb and dispensing with the carrier-plate.

In the drawings, A represents the main portion of the truss-band, having a cap-plate B, provided for its exterior at the end A′, which is of substantially ovate form, this plate being utilized for the clamping of the pad-bulb C upon the truss-band, and is not specially claimed in this connection.

One of the improved features consists in the provision of a rigid pad-bulb C, ovate in form, having a flat side *a*, in which an aperture is produced of circular form and proper depth, affording a cup-like recess, wherein an internally-threaded sleeve *b* is firmly embedded, so as to form a nut within the recess of the pad-bulb, which latter may be made of wood or other rigid material that is suitable. Within the sleeve-nut *b* a male screw or threaded hub *c* is inserted, having a firmly-attached cylindrical shank *d* centrally secured in it to project therefrom concentrically, as shown in Figs. 3 and 4, the length of said shank being so proportioned to the thickness of the truss-band A, plate B, and an intervening base-plate D that its transversely-slotted head *d′* will be located flush with the exterior surface of the cap-plate B when the parts are assembled.

The base-plate D is formed of thin metal having an ovate contour which defines the marginal shape of the completed truss-pad, and upon its edge a thin envelope E has its margin secured adjustably by overlapping the same, as at *e*, and inserting a draw-string *g*, which may be drawn tight or slackened, as may be required, and then tied, as at *g′* in Fig. 2, said adjustable envelope having also been previously shown in my allowed patent.

The base-plate D is slotted at *f* longitudinally a proper distance to permit the shank *d* to slide therein when the pad-bulb C is to be moved correspondingly, so as to locate it either toward one extremity of the base-plate, as indicated in Fig. 3, or any other point longitudinally considered, the truss-band A being similarly slotted to allow said adjustment to be effected, whereby the thin envelope E may be projected and the general conformation of the ovate pad changed to suit the requirements of the rupture under treatment. In order to enable the insertion of the shank-head *d′* into the slot *f* when the shank is affixed to the hub-piece *c* an enlargement of said slot is made near one end, as at *f′* in Fig. 2.

The base-plate D is perforated at *h* and threaded to receive a set-screw *i*, that may be inserted in any one of the several holes *m*, located in rows which radiate from the hole in the cap-plate B, wherein the head *d'* of the shank *d* is located and which affords a fulcrum for the lateral swinging adjustment of the pad upon the truss-band, it being understood that alinging holes are formed in the band to permit the set-screw *i* to be changed in position, as may be required.

On each side of the shank-head *d'* projecting studs *n* are located in longitudinal alignment therewith for the hooked connection of the hooks *o p* on the end A' of the truss-band proper, and also of the supplementary band A^3, which serves to hold the truss in position, as usual with this form of truss.

By provision of the rigid bulb C and its attachment, as has been explained, there is facility afforded for the movement of the bulb laterally and longitudinally within its envelope E, and also for its outward projection from the base-plate D, as shown in Fig. 4, and at a reduced cost as compared to my previous invention.

I do not claim, broadly, in this application a pad having a nut, a threaded hub working therein and provided with an adjusting-screw passing through a slot in a plate and through one of a series of adjusting-apertures in an outer plate, nor the thin envelope secured around the edge of the first-named plate and covering the pad, as the same forms the subject of my application before referred to; but I claim the improvements thereon hereinafter claimed.

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

1. A truss provided with a pad-bulb having a nut on its inner face, a threaded hub working in the said nut and provided with a fixed headed shank of less diameter, a base-plate having a longitudinal slot enlarged at one end to permit the head to enter and admit the shank into said slot, the slot being of less width than the diameter of the said hub, and the thin envelope inclosing the bulb and secured around the edge of the base-plate, whereby the pad and base-plate may be disconnected without removing the hub-shank and the position of the pad may be properly adjusted, substantially as set forth.

2. A truss having a pad-bulb which is rigid and is provided with a threaded hole penetrating from the plane surface thereof for the insertion of a hub that is threaded and adapted to rest upon a base-plate normally having a headed concentric shank that enters a longitudinal slot in said base-plate through an enlargement at one end of the slot and extends through the base-plate and also through the truss-band whereon the pad is mounted and through a hole in the cap-plate on the opposite side of the truss-band, which cap-plate is radially perforated to allow a set-screw to be variously adjusted in it, through which the screw passes and thence through the truss-band into a threaded hole in the base-plate, substantially as described.

GEORGE V. HOUSE, JR.

Witnesses:
WM. P. PATTON,
E. M. CLARK.