

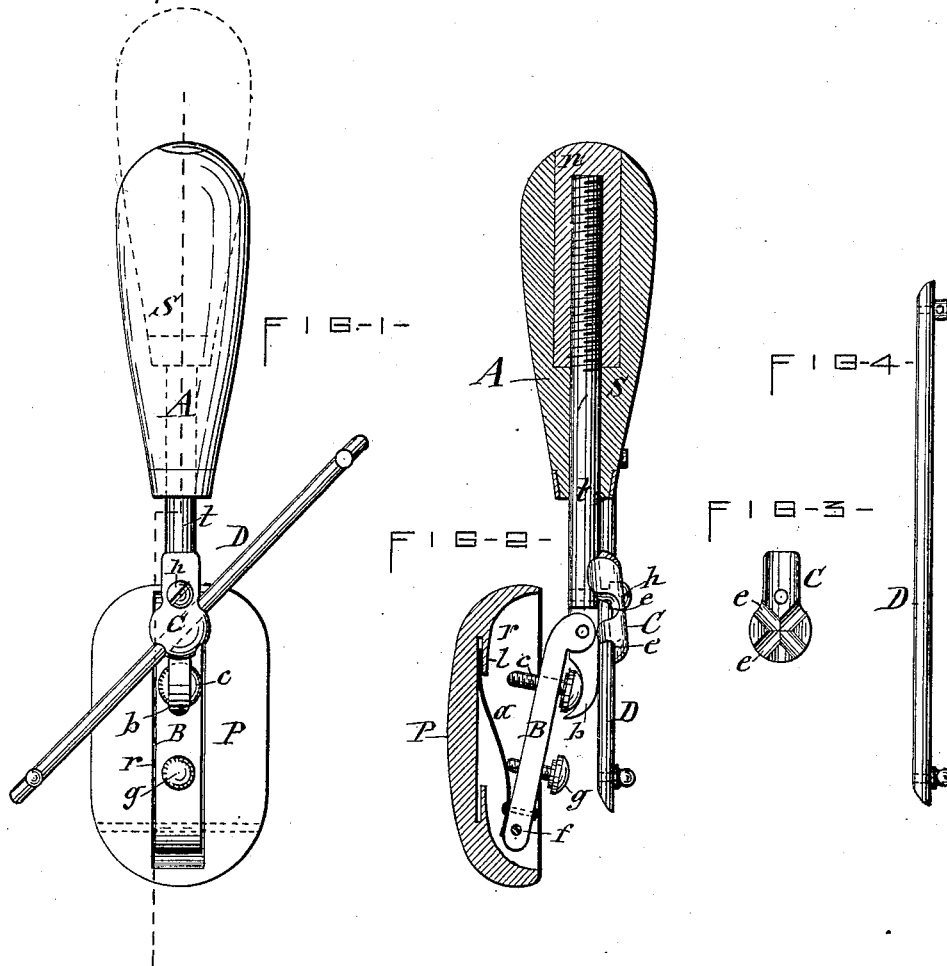
(No Model.)

F. R. SMITH.

TRUSS.

No. 266,215.

Patented Oct. 17, 1882.



WITNESSES—
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UNITED STATES PATENT OFFICE.

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OF JORDAN, NEW YORK.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 266,215, dated October 17, 1882.

Application filed July 29, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN R. SMITH, of Syracuse, in the county of Onondaga in the State of New York, have invented new and useful Improvements in Hernial Trusses, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to that class of hernial trusses in which the pad is hinged to a supporting-arm extended upward from the upper end of the pad and adapted to rest against the abdomen.

The invention consists in certain improvements in the construction and arrangement of the constituent parts of the truss, whereby the adjustment thereof to the wearer is greatly facilitated and the cost of the manufacture of the truss is materially reduced.

The invention is fully illustrated in the annexed drawings, wherein Figure 1 is a view of the outer face of the truss. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a detached view of the under side of the clasp by which the attaching-bar of the truss is secured in its position, and Fig. 4 is a detached view of said bar.

Similar letters of reference indicate corresponding parts.

P denotes the pad, provided in its back or outer side with a longitudinal recess, *r*, extending nearly the length thereof. In said recess plays a bar, B, which is hinged to the base of the pad, as shown at *f*, Fig. 2 of the drawings.

To the upper end of the bar B is hinged the supporting-arm A, which is designed to rest against the abdomen above the hernia, said arm being formed of a tang, *t*, which is hinged to the bar B, and has its upper extremity screw-threaded, and entering a nut, *n*, secured in a sleeve, S, of suitable shape and material to afford a convenient and proper bearing on the abdomen. The aforesaid construction and combination of parts allow the arm A to rotate on its axis and one part, S, to move longitudinally on the other part, *t*, and thus become distended or contracted in length, as may be desired by the wearer of the truss. The lower extremity of the tang *t* has an extension, *b*, underneath which is a set-screw, *c*, passing through the bar B, and having under the ex-

tension *b* a milled head by which to manipulate it and adjust it. The bearing of the extension *b* on the head of the set-screw *c* serves as a fulcrum by which the arm A imparts to the pad the requisite pressure against the hernia. The bar B being hinged to the base of the pad transmits the aforesaid pressure directly and positively to that part of the pad. The pressure of the upper and free end of the pad is limited by the encounter of the end of the set-screw *c* with the back of the pad, and is regulated by turning said set-screw, so as to cause it to protrude through the bar B a greater or less depth. The projection of the extension *b* over the head of the said set-screw forms a guard or shield over the same to prevent accidental turning thereof.

The pressure of the upper portion of the pad I render yielding by means of a spring, *a*, connected to the bar B near the hinge thereof, and having its free end bearing on the upper portion of the pad. Said end of the spring passes underneath a lip, *l*, on the back of the pad, so as to prevent the upper portion of the pad from falling away from the bar B when the truss is not in use. The pressure of the spring *a*, I adjust by means of a set-screw, *g*, passing through the bar B and bearing on said spring, as illustrated in Fig. 2 of the drawings.

D denotes the bar by which the truss is connected to the usual waistband. Said bar is adjustably secured to the supporting-arm A by means of a clamp, C, in the form of a plate, detachably secured to the tang *t* by means of a set-screw, *h*, passing through said plate and entering a screw-threaded socket in the tang. The side of the clamp C adjacent to the tang is provided with diagonal grooves *ee*, disposed in opposite directions, so as to adapt the truss to be applied to either the left or right side of the abdomen, the bar D passing through that one of the grooves *e* which brings the said bar in range with the ends of the waistband, and allows the pad P and supporting-arm A to be placed in their requisite position to properly retain the hernia, said bar being secured in its position on the supporting-arm A by the set-screw *h*, before described.

Having described my invention, what I claim is—

1. In combination with the pad P and bar B, hinged to the base thereof, the set-screw *c*, applied to the upper portion of the bar B, and the arm A, hinged on said bar, and having the extension *b* over the head of the set-screw, substantially in the manner and for the purpose shown and set forth.

2. The combination, with the pad P, of the bar B, hinged to the base of said pad, the arm A, hinged to the upper end of the bar B and provided with the extension *b*, the set-screw *c*, applied to the bar underneath the extension *b*, and the spring *a*, bearing on the upper portion of the pad, substantially as described and shown.

3. The combination, with the supporting-arm A, of the clasp C, detachably connected thereto, and provided with the transverse grooves *ee*, and the bar D, clamped in said clasp, substantially in the manner described and shown.

4. In combination with the pad P, the supporting-arm A, composed of sections or parts adapted to slide longitudinally one upon the other, substantially as and for the purpose set forth.

5. In combination with the pad P, the tang *t*, hinged thereon, and having its free end screw-threaded, and the sleeve S, provided internally with the nut *n* for the reception of the tang, substantially as shown and described.

6. The combination, with the pad P, of the bar B, hinged to the base thereof, the spring *a*, connected to said bar and bearing on the upper portion of the pad, the adjusting-screw *g*, bearing on said spring, the arm A, hinged to the upper end of the bar B and provided with the extension *b*, and the set-screw *c*, applied to the bar underneath said extension, substantially as shown and set forth.

In testimony whereof I have hereunto signed my name and affixed my seal in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 18th day of July, 1882.

FRANKLIN R. SMITH. [L. S.]

Witnesses:

C. H. DUELL,
F. H. GIBBS.