

Bartlett & Butman,

Truss.

N^o 37,381.

Patented Jan. 13, 1863.

Fig. 1

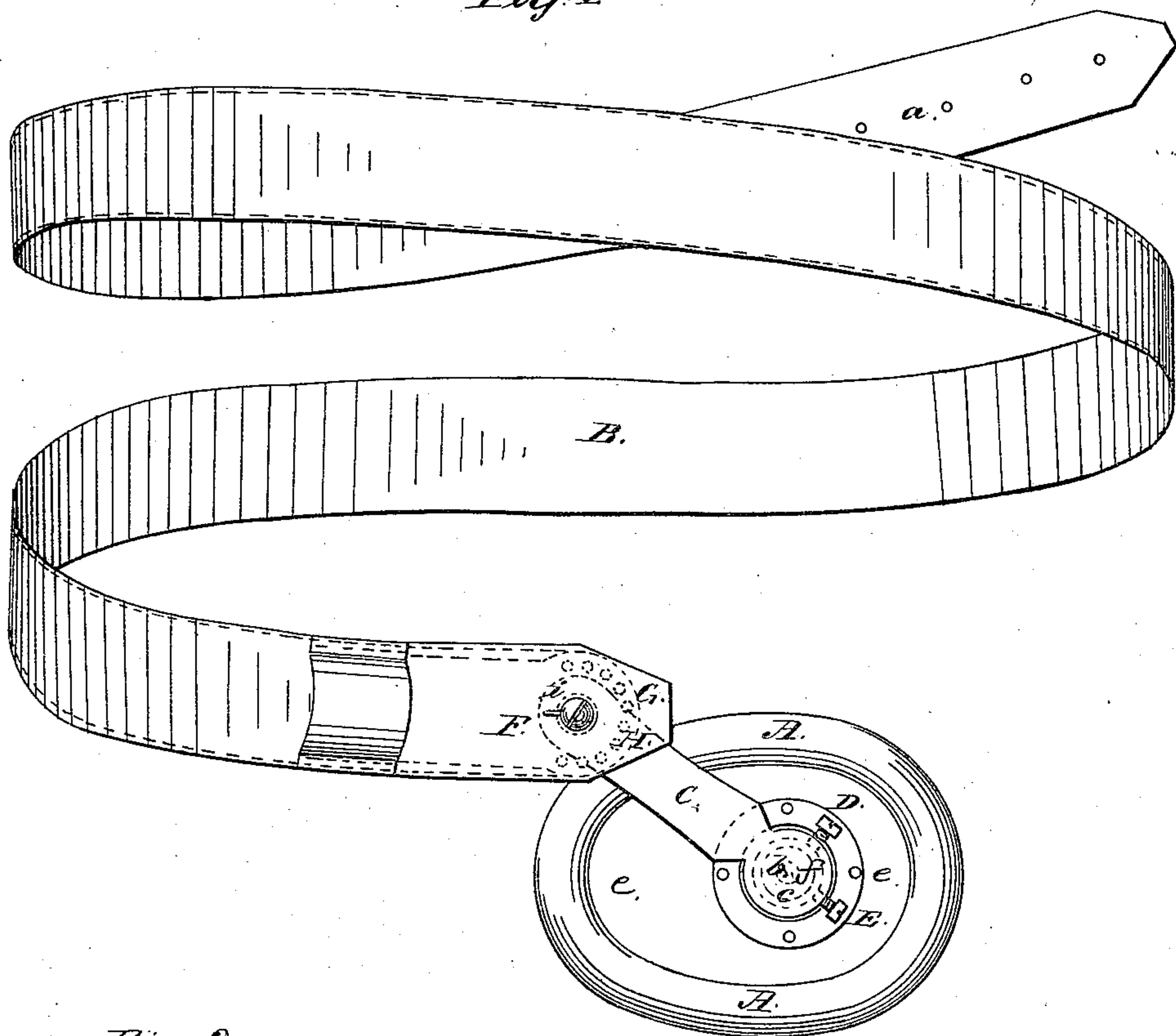


Fig. 2.

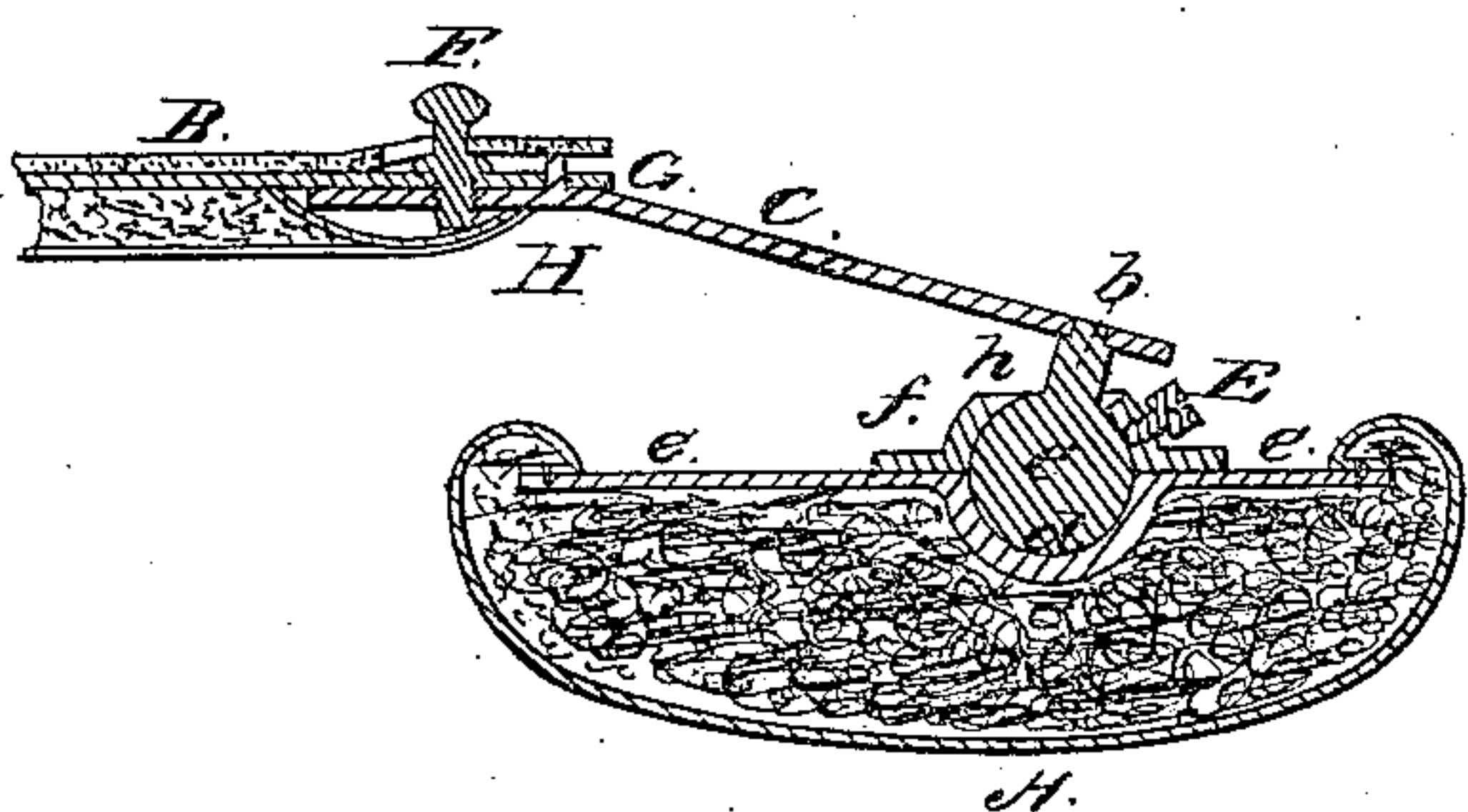
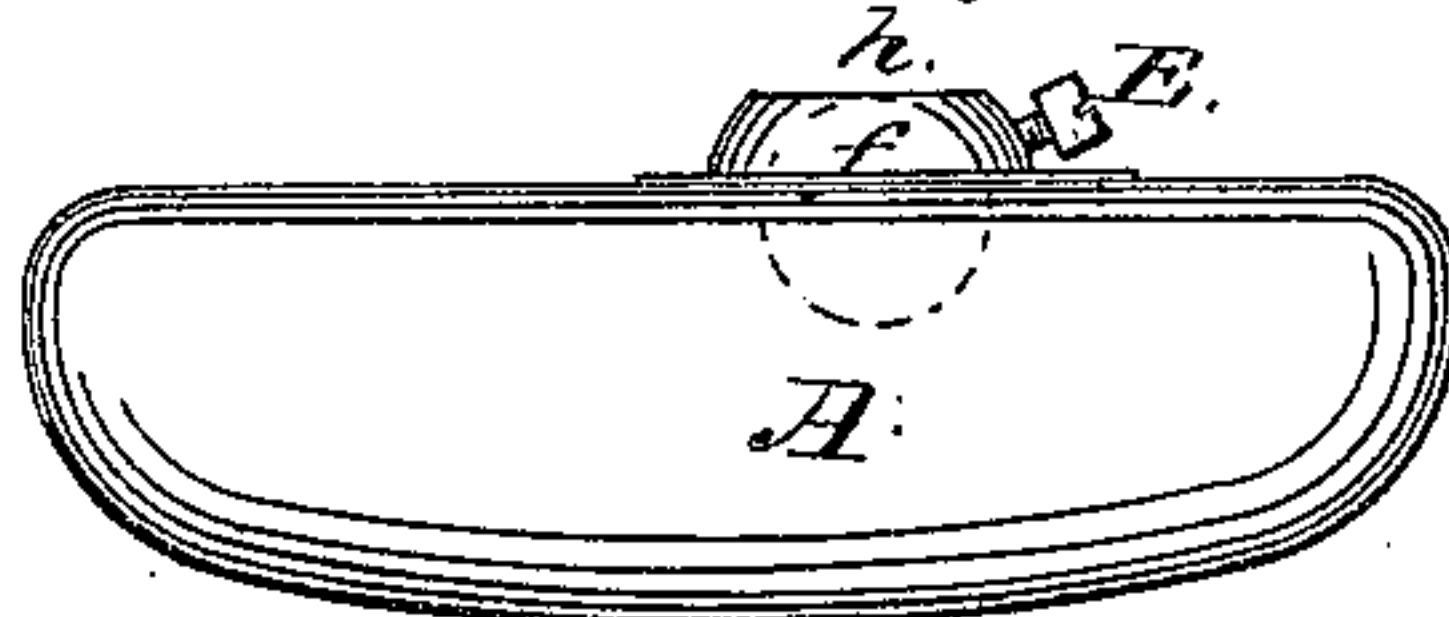


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JASON T. BARTLETT AND EDWARD E. BUTMAN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN TRUSSES.

Specification forming part of Letters Patent No. 37,381, dated January 13, 1863.

To all whom it may concern:

Be it known that we, JASON T. BARTLETT and EDWARD E. BUTMAN, citizens of the United States, and residents of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Trusses for the Cure or Alleviation of Hernia; and we do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a front elevation of a truss provided with our invention. Fig. 2 is a longitudinal section of the pad, its supporting arm, and the connections of the latter with the spring. Fig. 3 is an elevation of the pad, its socket, and confining-screws.

Our invention has for its object the ready and proper adjustment and fixation of the pad. Its adjustment in any desirable direction is effected through the agency of a ball-and-socket joint, its fixation in position after each adjustment being produced by two screws arranged with their axes at a right angle or thereabout. One screw is not sufficient to hold the pad in place, because it will not prevent the pad from being easily turned in a plane at right angles to the axis of the screw. By having two screws going through the socket-cap and against the ball, and arranging them so that their axes shall be disposed at a right angle with each other, each, when screwed up closely against the ball, will counteract or prevent any movement of the pad in a plane at a right angle with the axis of the other, the two screws co-operating to hold the pad fast in any assumed position. In our truss the pad-arm is connected with the spring by means of a clamp-screw whose head serves as a button for the strap of the spring. In connection with the said clamp-screw and the spring and arm, we employ on the arm a stud to enter one of a series of holes made in the spring and arranged in the arc of a circle concentric with the clamp-screw.

In the drawings, A denotes the pad, while B is the spring, the latter being covered in the usual manner with leather and cloth or other material, and provided with a holding-

strap, *a*. The pad is directly connected with the spring by means of an arm, C, from or near the outer end of which there is a projecting shank, *b*, carrying a spherical ball, *c*, which enters a corresponding socket, *d*. This socket is formed not only by a semispherical depression of the pad-plate *e*, but by a cap, *f*, made to partially cover the ball and fastened to the said plate, the said cap being provided with a circular opening or mouth, *h*, having a diameter about three times that of the shank *b*. Two screws, D E, are screwed into and through the cap of the socket and against the ball and are so arranged that their axes stand at a right angle, or thereabout, with each other. Furthermore, the arm C is placed flatwise against the spring and is secured to it by means of a clamp-screw, F, which goes through the spring and screws into the arm, and has a shoulder, *i*, to bear against the spring, the same being as shown in Fig. 2. The spring, near its end, is provided with a series, G, of holes or perforations, arranged in the arc of a circle and concentrically with the clamp-screw. A stud, H, projecting from the outer surface of the arm C, enters some one of the holes of the series G, and serves, with such hole and the clamp-screw, to hold the arm in its position with respect to the spring, which position may be varied by loosening the clamp-screw and changing the stud to another one of the series of holes.

By means of its peculiar adjusting devices the pad may be adapted with great accuracy to that part of the body of a person against which it may be desirable to have it act, either for the cure or alleviation of hernia.

We claim—

The arrangement of the two screws D E with the ball and socket of the pad and its arm C, substantially as specified, the arm being applied to its spring by devices to admit of its adjustment, substantially as explained.

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Witnesses:

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