

B. F. LOCKWOOD.
 HERNIAL TRUSS.
 APPLICATION FILED JUNE 12, 1907.

953,015.

Patented Mar. 22, 1910.

Fig. 1.

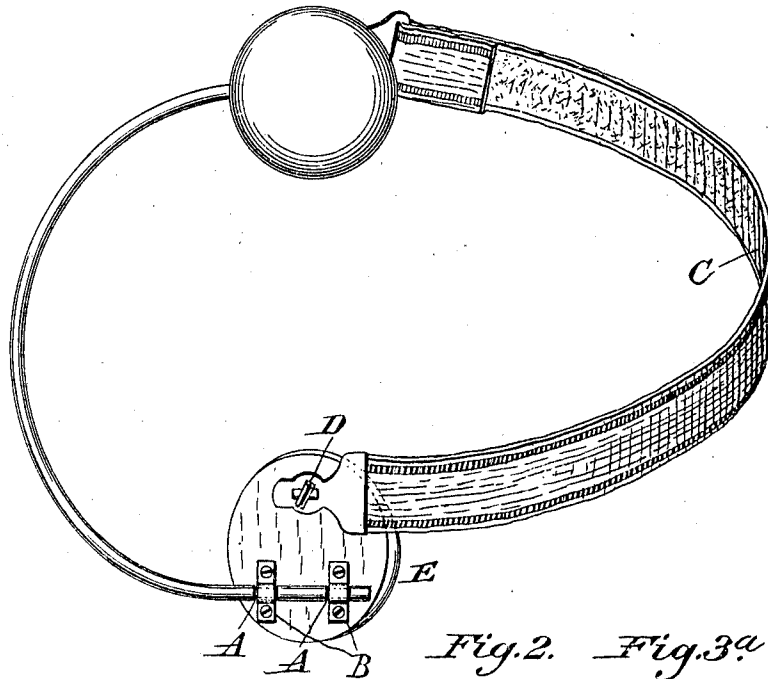


Fig. 2. Fig. 3^a Fig. 4^a

Fig. 7.

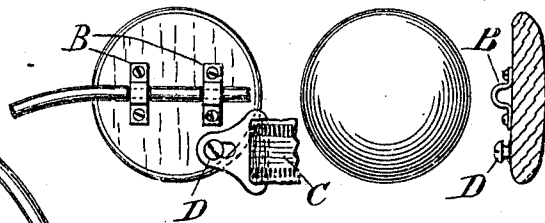
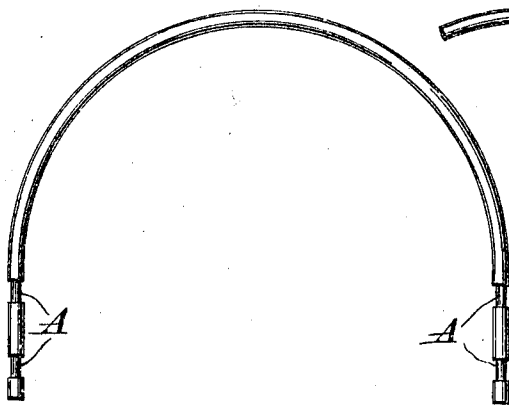


Fig. 3. Fig. 4

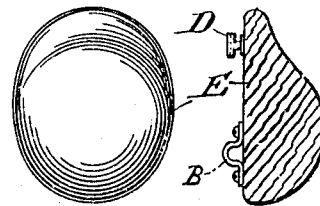
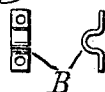


Fig. 5 Fig. 6.



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UNITED STATES PATENT OFFICE.

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HERNIAL TRUSS.

953,015.

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To all whom it may concern:

Be it known that I, BYRON F. LOCKWOOD, of the city and county of Jackson and State of Michigan, have invented an Improvement in Hernial Trusses, of which the following is a specification.

My invention relates to self adjusting pads, a new design in trusses and their construction, a description of which is as follows.

Figure 1, of the drawing is a general view of my truss and its application showing the combination that renders the pads self-adjusting. The face view is shown in Fig. 1 of the front pad E which also shows the manner of attaching the rod or bow and the elastic band with clips and screws. Fig. 2 shows a view of the rear pad with an extremity of the bow and elastic attachment by metal loops. Fig. 3 is a view of the oval or convex surface of the front or active pad. Fig. 3^a is a view of the oval surface of the rear pad. Fig. 4 is a vertical sectional view of the front pad. Fig. 4^a is a vertical sectional view of the rear pad—the last two figures show the convexity of the pads through the center. Fig. 5 is a face view of the clips, also shown in Figs. 1, 2, 4 and 4^a. Fig. 6 is a side view of the clips, showing their concavity and general shape. These clips are constructed of brass and are one sixteenth of an inch in thickness and one fourth of an inch in width and three fourths of an inch in length and fit in the grooves perfectly. Fig. 7 shows the bow or spring rod with grooves A for receiving the clips. B, shows the clips attached to pad.

C in Fig. 1 shows elastic band extending from rear to front pad attached with suitable loops to screws or studs D in Figs. 1, 4 and 4^a which are detachable. The front pad is of usual size and differs in its shape in that it is oblong in the perpendicular—having a length one fourth of an inch greater than its width. The purpose of this is to attach the elastic band at a sufficient distance above the clips to support them and allow the pads to oscillate freely and adjust themselves as shown by D and A A, in Fig. 1. The upper part of the pad is cut away on the inner side at the upper end to form a crescent shaped lip blending with the main pad as shown in

Figs. 3 and 4 to make room for the abdominal wall and allow free oscillation and self adjustment of the pad. The precise shape of these pads may be varied as the nature of the hernia and person may require. I have used hard maple for their construction, but they may be made of rubber or other hard material or they may also be cushioned and form a soft pad. The rear pad is of usual size and shape but with the elastic attachment above the spring rod similar to the front pad supporting the same, allowing free oscillation by which it adjusts itself and presses alike on the back in the bending movements and action of the person yielding as does the front pad in its oscillatory and rotary action to the slightest pressure or movement of the person—forward and backward, without resistance. A more uniform pressure is secured by this combination.

The bow being clipped to the lower edge of front pad at A A in Fig. 1 gives a lower, a more direct and upward pressure on the hernia—requires less pressure and relieves the distress that arises from the use of stationary pads in many instances.

This device of mine is unlike any other and is a much needed improvement in trusses.

Changes in form, proportion, and detail of construction can be had without departing from the intent of this invention.

I claim:—

In a truss, a spring rod provided at each end with two grooves spaced apart, a front pad and a rear pad, spaced clips attached near the lower edge of the back or outer surface of the front pad, spaced clips attached on the back of the rear pad, said clips having loops adapted to fit in the grooves of the spring rod thereby securing the rods to the pads, a stud on the upper part of the back of each pad and an elastic band provided with fastening means at each end adapted to engage with said studs, substantially as specified.

Signed and witnessed this 15th day of June A. D. 1907.

BYRON F. LOCKWOOD.

Witnesses:

FRANK A. PALMER,
IRA L. EVANS.