

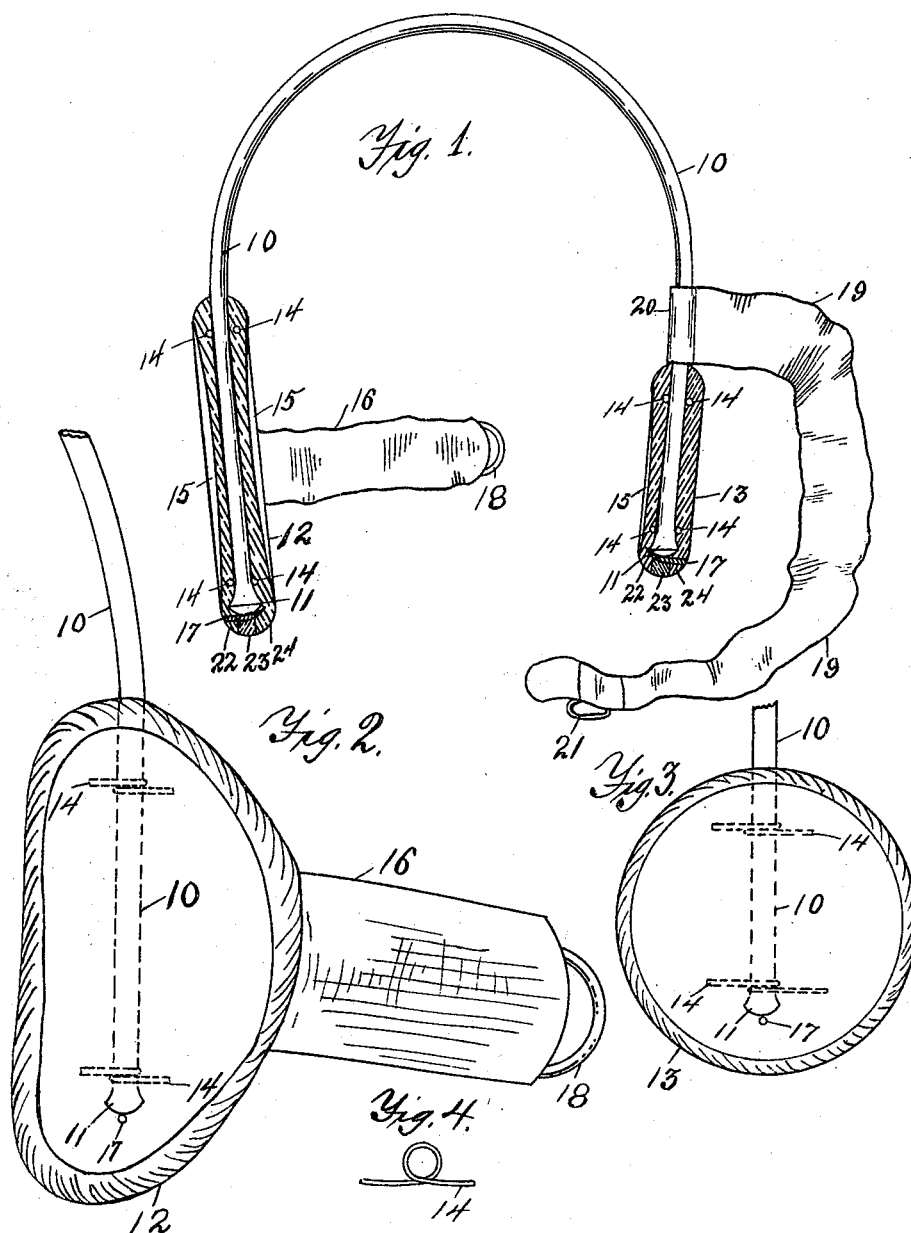
No. 647,935.

Patented Apr. 24, 1900.

M. B. BELDEN.
TRUSS.

(Application filed July 3, 1899.)

(No Model.)



WITNESSES:
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UNITED STATES PATENT OFFICE.

MILTON B. BELDEN, OF JAMESTOWN, NEW YORK.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 647,935, dated April 24, 1900.

Application filed July 3, 1899. Serial No. 722,664. (No model.)

To all whom it may concern:

Be it known that I, MILTON B. BELDEN, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and State of New York, have invented a new and useful Truss, of which the following is a specification.

My invention relates to improvements in trusses for hernia in which the parts are held in place by pads attached to a bow-shaped spring; and the objects of my improvement are, first, to attach the pads to the ends of the bow-spring in the form of a swivel, so that the pads shall adjust themselves instantly to each movement of the body and that the same truss may be used on either side of the body; second, to make the surface of the pads slightly concave to better fit the hernia, and, third, to attach the holding-strap to the edge of the front pad to better hold it in place. I attain these objects in the manner shown in the accompanying drawings, in which—

Figure 1 is a partly-sectional view showing my truss. Fig. 2 is a detail view of concave side of pad, with strap attached, as shaped to fit a special case. Fig. 3 is a detail view of a common round pad with my improvements. Fig. 4 is a detail view of holding-wire for end of spring.

Similar numerals refer to similar parts in the several views.

10 is the spring-wire bow, which may be bent to fit any form or either hip.

11 11 are the enlarged ends of spring 10, which are held in the pads 12 13 by the material and by the wire holders 14 14 and pins 17 17, the enlarged ends not allowing the ends to slip out of the pads and the pins 17 17 holding the ends from pushing through the pad. This arrangement allows the pads to turn on the ends 11 11 like a swivel and adjust themselves to every movement of the body and by turning the front pad will fit either side of the body, and thus reduce the necessary stock for the dealer by one-half.

I make the front pad 12 in any desired shape to fit the hernia, as shown in Fig. 2, and make the flat sides of the pad slightly concave in order that while holding the parts in place the outer edges of this concave surface press on the flesh all around the opening or rupture and have a tendency to close the same.

My holding-strap passes around the opposite side of the body from that encircled by the spring-bow. End 16 is attached to one edge of pad 12, and thus holds the pad from turning too far or getting out of place, and the other end 19 is attached around wire 10 at 20 or just above back pad 13. End 16 has a ring 18, and end 19 has a hook 21, which is adjustably mounted thereon and catches into ring 18.

Pad 13 shows a common round pad used on the back of the hip and for small hernia and is made concave on one side for the hernia and straight or even slightly convex on the other to fit the hollow in the back of the hip.

I usually make the pads in layers 22 23 24, of sole-leather or other suitable material, and cut a slot in middle layer 23, as shown in dotted outline in Figs. 2 and 3, to receive wire 10, with enlarged end 11, and I assemble my truss by placing wire 10 in this slot in layer 23, with bent wire holders 14 14 in position around wire 10. The end 16 of the holding-strap is inserted between the layers, and the parts are solidly glued together into a pad and truss, as shown, yet allowing the pad to turn on wire 10. By turning easily with each movement of the body or muscles the pads are kept from pressing into the flesh and irritating the surface. Pin 21 is driven into place after the parts are glued together.

To use my truss, the pads are sprung into position with the front pad over the hernia and the back pad in the hollow of the hip, and they are held in position by hooking the ends of the strap together around the opposite side of the body, the hook having been adjusted on the strap to give the right tension.

I claim as new—

1. In a truss for hernia, a heavy spring-wire having enlarged ends and a suitable form to embrace the hip, swivel-mounted pads secured to said spring-wire and around said enlarged ends, holding-wires which loop around said spring-wire within the pads to form a metal bearing to turn on said wire, as shown and described.

2. In a truss for hernia, a heavy spring-wire 10 to embrace the hip having enlarged ends 11 11, pads 12 13 swivel-mounted on said spring-wire and having concave face 15, hold-

ing-wires 14 14 and pins 17 17 within the pads,
holding-straps 16 19 secured to the edge of the
pad and the wire and connected by ring 18
and adjustable hook 21, all combined to op-
5 erate in the manner and for the purpose set
forth.

In witness that I claim the foregoing I have

hereunto set my hand in the presence of two
witnesses.

MILTON B. BELDEN.

In presence of—

N. E. THOMAS,

E. F. DICKINSON.