

No. 648,368.

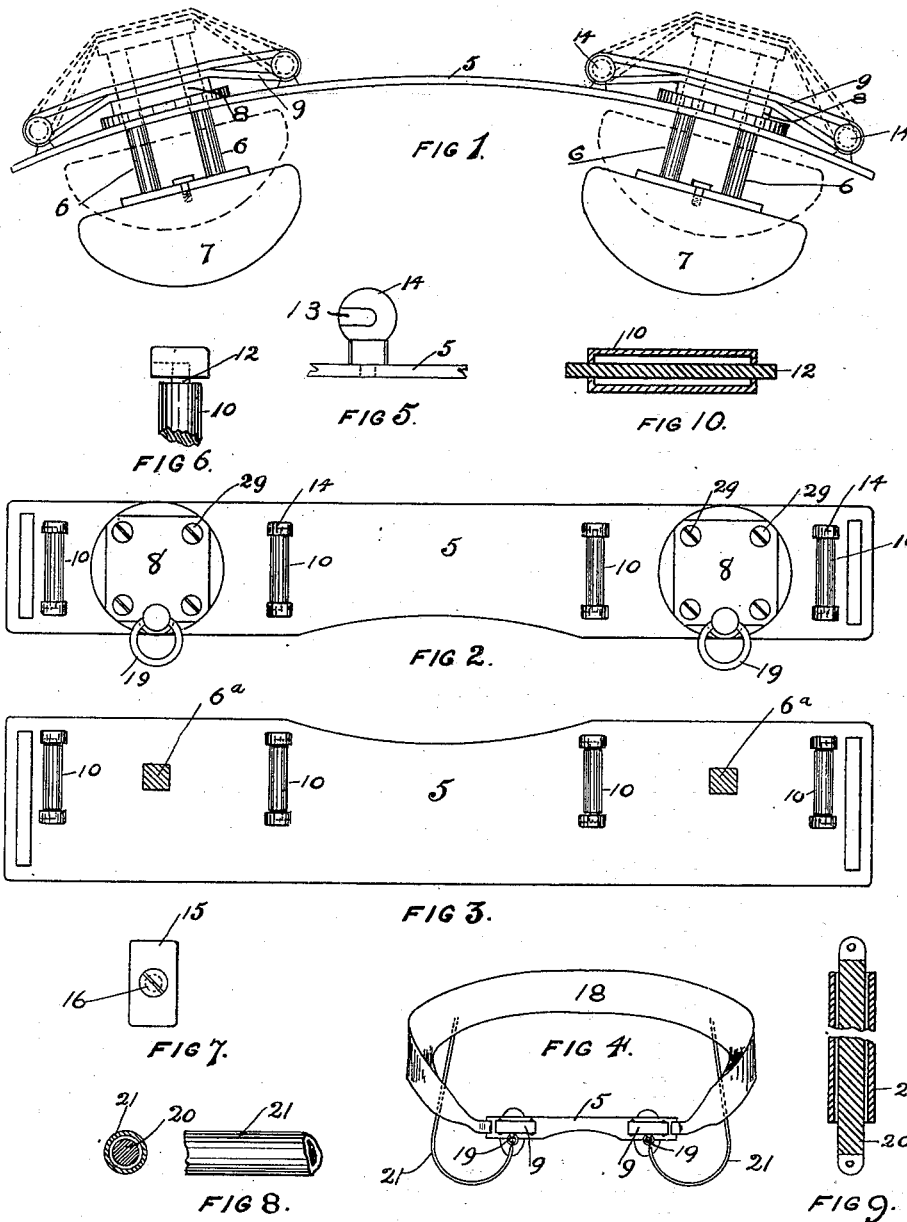
Patented Apr. 24, 1900.

J. M. TARRANT.  
HERNIAL TRUSS.

(Application filed May 8, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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Inventor  
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By *his* Attorney *A. J. [Signature]*

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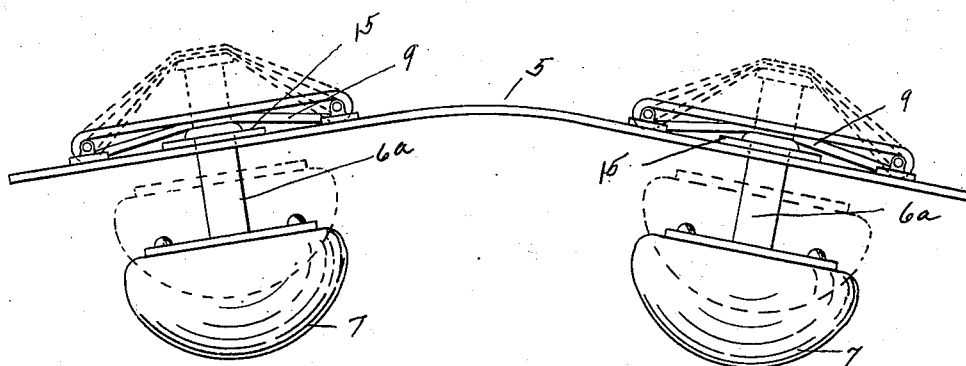


FIG 1.

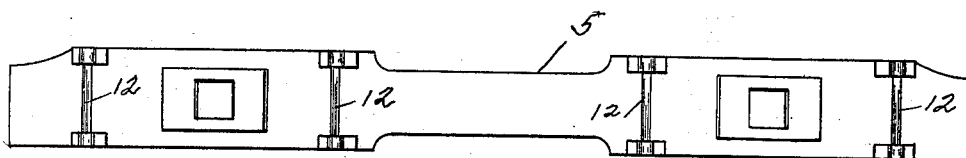


FIG 2.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES M. TARRANT, OF DENVER, COLORADO.

## HERNIAL TRUSS.

SPECIFICATION forming part of Letters Patent No. 643,368, dated April 24, 1900.

Application filed May 8, 1899. Serial No. 716,053. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES M. TARRANT, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Hernia-Trusses; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in hernia-trusses, my object being to provide a device of this class which shall be simple in construction, economical in cost, and reliable, durable, and efficient in use; and to these ends the invention consists of the features, arrangements, and combinations hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a top view of my improved truss when in position for use. Fig. 2 is a rear view of the same with the elastic band removed. Fig. 3 is a similar view showing a modified form of construction. Fig. 4 is a perspective view of the device shown in connection with the supporting plate and cords and on a smaller scale. Fig. 5 is a fragmentary edge view of the truss-plate, illustrating one of the slotted lugs in which are journaled the spindles of the antifriction-rollers upon which the elastic bands are supported. Fig. 6 illustrates the lug with the spindles in place, a fragment of the roller being also shown. Fig. 7 illustrates the bearing-plate for use in connection with the construction shown in Fig. 3. Fig. 8 shows the double-elastic-cord construction. Fig. 9 is a longitudinal section showing the elastic cord and its protecting-sheath, the same being broken away in the middle. Fig. 10 is a section taken through the antifrictional roller and the spindle upon which it is journaled. Fig. 11 is a top view of the form of the device having a single pin for each pad. Fig. 12 is a rear view of the truss-plate, or a view from the side opposite that upon which the pads are located.

Similar reference characters indicate corresponding parts in the views.

Referring first to the construction shown in Figs. 1 and 2, let the numeral 5 designate the truss-plate, which is provided with four openings located near each extremity to receive a corresponding number of sliding pins 6, upon which each truss-pad 7 is mounted. To the outer extremity of each set of these pins is attached a plate 8 by means of screws 29, which pass through the plate and enter threaded apertures formed in the pins. Each plate 8 engages a double elastic band 9, supported by rollers 10, mounted on spindles 12, journaled in open sockets 13, formed in lugs 14, attached to plate 5. The pins 6 are of sufficient length to allow considerable movement, the pins sliding in the plate for the purpose. As pressure is applied to each pad 7 from the inside the plate 8 is forced outward against the elastic band 9, the latter yielding to the pressure until the parts occupy the position shown by dotted lines in Fig. 1. When the pad is released from the inward pressure, the recoil of the elastic band returns the pad to its normal position.

In the form of construction shown in Figs. 3, 11, and 12 the plate 5 is only provided with a single opening, located near each extremity and adapted to receive a pin 6<sup>a</sup>, square in cross-section, upon one extremity of which the pad is mounted. To the opposite extremity of each pin 6<sup>a</sup> is attached a plate 15 by means of a screw 16, which enters a threaded socket formed in the pin. The plate 15 bears against the rubber or elastic band 9 and performs the same function as the plate 8 in the other form of construction.

The extremities of the plate 5 are provided with openings 5<sup>a</sup> to facilitate the attachment of the extremities of the body-belt 18. To the truss-plate 5, adjacent each bearing-plate 8, is attached a ring 19. To each of these rings is attached one extremity of an elastic cord 20, the other extremity of said cord being attached to the rear portion of the plate. Each cord 20 is surrounded by a tube 21, preferably composed of rubber and of such size that the cord 20 may move freely therein without the movement of the tube, whose extremities are both free, whereby the tube, which engages the body of the wearer, remains

stationary regardless of the movement of the cord 20 and the other truss parts. Hence this cord prevents any chafing tendency which might otherwise result.

5 Having thus described my invention, what I claim is—

1. In a truss, the combination with the plate and pad, the plate having an opening, of a pin, angular in cross-section, adapted to  
10 slide in the opening, a bearing-plate attached to the extremity of the pin, to whose opposite extremity is attached the pad, antifrictional supports mounted on the plate, and a double  
15 elastic band engaging said supports and engaging the bearing-plate of the sliding pin.

2. The combination of a truss-plate having an opening, a roller mounted on the plate on each side of said opening, an endless elastic  
20 band engaging the rollers, a pin engaging the opening in the truss-plate, a plate attached to

one extremity of the pin and bearing against the elastic band, and a pad attached to the opposite extremity of the pin.

3. The combination with the truss-plate and pad, the plate being provided with an open- 25 ing, of a pair of lugs mounted on the plate and located on each side of the opening, said lugs having open sockets, a roller journaled in each pair of lugs, an endless elastic band passing around said rollers, a pin passing 30 through the opening in the truss-plate, a bearing-plate attached to one extremity of the pin to whose opposite extremity is attached the pad.

In testimony whereof I affix my signature 35 in presence of two witnesses.

JAMES M. TARRANT.

Witnesses:

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