Sept. 30, 1930. T. M. CAMERON 1,776,864

TRUSS

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Fig. 1.

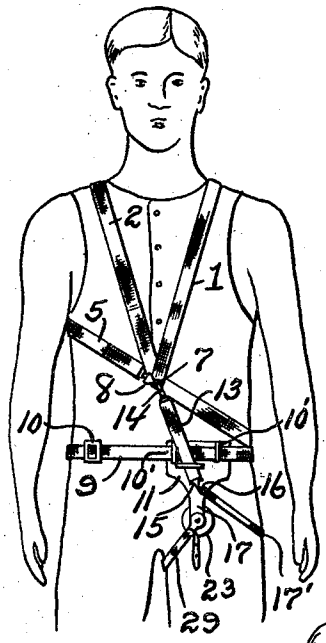


Fig. 2.

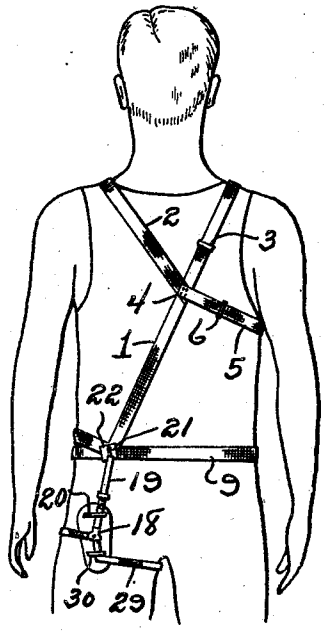
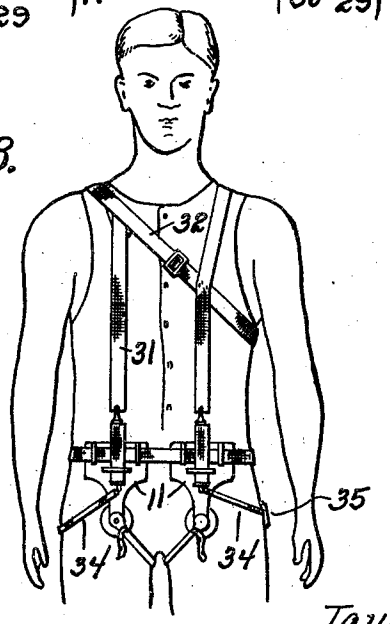


Fig. 3.



Taylor M. Cameron
INVENTOR

BY Victor J. Evans
ATTORNEY

WITNESS: John Donovan

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Fig. 4.

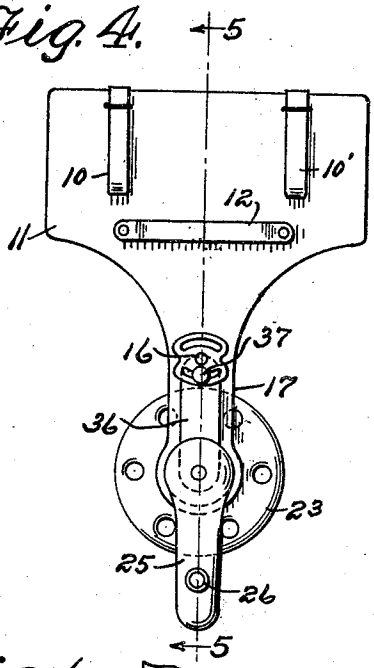


Fig. 5.

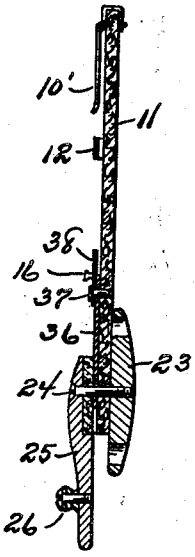


Fig. 6.

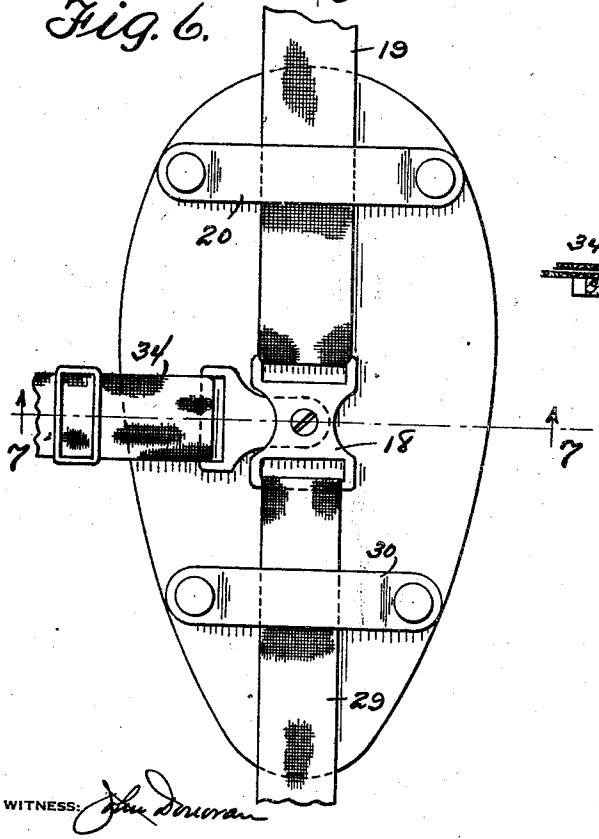
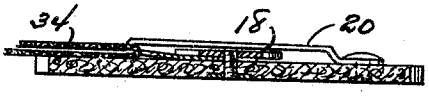


Fig. 7.



WITNESS: John Donovan

Taylor M. Cameron
INVENTOR

BY Victor J. Evans
ATTORNEY

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UNITED STATES PATENT OFFICE

TAYLOR M. CAMERON, OF LINCOLN, NEBRASKA

TRUSS

Application filed November 24, 1928. Serial No. 321,643.

My present invention has reference to hernia-trusses, and my object is the provision of an improved truss which shall be capable of various attachments and which includes a harness that is adjustable and may be easily and quickly positioned or removed and which supports thereon pads that may be adjusted as desired to accommodate different wearers, which will be firmly held in position and whose pressure may be varied quickly and conveniently as conditions require and which also may be changed from a double to a single truss.

To the attainment of the foregoing and other objects which will present themselves the improvement also resides in certain other novel features of construction, combination and operative association of parts, one satisfactory embodiment of which is disclosed by the accompanying drawings.

In the drawings:

Figure 1 is an elevation illustrating my improvement in applied position.

Figure 2 is a rear elevation thereof.

Figure 3 is a view similar to Figure 1 but showing the device supporting three pads.

Figure 4 is a plan view of the rupture pad and the carriage or support therefor.

Figure 5 is a sectional view approximately on the line 5—5 of Figure 4.

Figure 6 is a face view of the rear pressure pad.

Figure 7 is a sectional view approximately on the line 7—7 of Figure 6.

The harness, which forms an important element of the improvement comprises essentially a pair of straps formed of suitable elastic webbing and indicated by the numerals 1 and 2, respectively. The straps comprise a pair of looped elements which are adjustably connected by slide clamps 3. The strap 1 is stitched to the latter, as at 4. The stitching also secures to the harness a side strap 5 whose ends are adjustably connected by a slidable clamp 6. The straps 1 and 2 constitute the shoulder straps of the harness while the strap 5 constitutes the side strap. The ends of the shoulder straps 1 and 2, at the front thereof, are stitched or otherwise connected and likewise provided with a catch element in the nature of a button 7 which is engaged by a substantially U-shaped clip 8 on the end of the side strap 5.

The adjustable belt strap is also of elastic webbing and is indicated by the numeral 9 and comprises a member whose ends are adjustably connected by a buckle 10. The belt is adapted to be engaged by a pair of spaced hooks 10′—10′ on the upper and widened ends of each of the truss supports 11. Each of the truss supports is provided with a guide 12 for a comparatively short elastic strap 13 that has a substantially U-shaped catch 14 on one of its ends to engage with the button or stud 7. The other end of the short strap 13 is provided with a similar catch 15 that engages a button or stud 16 on the reduced or tongue end 17 of the support or carriage. This button is also engaged by a catch on the end of a hip-strap 17′ and the opposite end of the hip-strap is connected to a member which is pivotally secured to a plate 18 on the rear presser pad of the improvement.

The plate 18 has its ends formed with slots or eyes, one for the reception of a strap 19 which is passed through a guide 20 on the presser pad. The strap 19 comprises an adjustable member and carries on one end a slidable catch to be engaged by a hook 21 that is centrally formed on a plate 22 that connects the extending end of the strap 1 at the rear thereof with the end of the side strap 5.

It is to be noted that the belt is not directly connected with the shoulder or side straps which permits of the removal of the shoulder and side straps from the pad carrying carriage 11 should occasion require, and as far as the description has progressed it will be seen that all of the elements comprising the harness comprise adjustably associated members.

The tongue or central extension 17 of the carriage or support 11 has removably pivoted thereto a pad 23. The pad is in the nature of a disc and is apertured for the proper ventilation thereof. The truss pad is interchangeable, one face of the same being convex and the other face being straight as best

disclosed by Figure 5 of the drawings. The pivot 24 which passes through the carriage or support and the pad is in the nature of a bolt, the said pivot also passing through a metal member 25 that has on its outer face a stud 26 and to this stud there is secured one end of the crotch or perineal strap 29, the other end of the said strap 29 being passed through a guide 30 on the presser pad 18 and being looped around the second eye of the pivoted metal plate 18.

The harness construction disclosed by Figure 3 of the drawings slightly differs from that above described as the side strap is also employed as a shoulder strap and one or both the front and rear straps, indicated for distinction by the numeral 31, are connected to this side strap which also for distinction is indicated by the numeral 32. In the showing of Figure 3 the belt has removably attached thereto two carriages or supports for trusses, the said trusses being of a construction as above described and being provided with both hip and perineal straps. One or both of the hip straps 34 may carry a truss pad 35 similar to the truss pad 23 above described.

As disclosed by Figures 4 and 5 of the drawings there is preferably arranged between the members 25 and the tongue 15 of the support or carriage 11 a metal plate 36 which is pivotally attached to the tongue 15, and the upper end of this plate is provided with a stud 37 and outward thereof a slot 38 whereby additional straps may be attached thereto. The pivot 24, it should be stated, passes through this plate 36 to hold the same from swinging.

Truss pads arranged upon my improvement cannot slip. The device may be easily arranged upon the person of the user and as easily removed therefrom. The harness when adjusted will not bind and is, of course, adjustable. One edge of the truss pad is a trifle higher than the portion just inside of the edge to give the same a more effective bearing against the part being treated. The truss pad may be made of leather, wood, rubber or as a matter-of-fact, any desired material which is also true with respect to the leg pad 35.

Whether the truss is used singly or doubly the pads may be freely adjusted on the supports therefor and thus accommodate themselves to the surface on which they rest.

Having described the invention, I claim:

1. A truss for the purpose set forth comprising, a harness including shoulder straps which merge into a back strap and a side strap, a belt removably secured to the back strap, a short elastic strap connecting the front and side straps, carriages having hooks for engaging the belt, means removably attaching the elastic straps to the carriages, guides for the elastic straps, a reversible pad on each carriage, back pads having strap connections with the belt, and leg straps connecting the back pads and carriages for holding the pads from movement, and a rupture pad comprising a disc having one of its faces flat and its opposite face convex, and said disc being provided with equidistantly spaced peripheral openings.

2. A truss designed to be supported from a belt and sustained from movement thereon, including a carriage having an upper widened end provided with belt engaging hooks, an element pivotally secured to the reduced end of the carriage having means for engaging straps to hold the carriage from movement on the belt, and a reversible pad secured on the said reduced end of the carriage by the pivot for the mentioned means.

3. A truss for the purpose set forth, comprising a harness embodying a belt, a shoulder strap connected at one end to the back of the belt, an elastic strap connected to the other end of the said shoulder strap, a side strap connected at one end to the shoulder strap at the back thereof, and near the shoulder engaging portion of said strap, the said side strap having its other end connected to the said shoulder strap at the point of connection of the elastic strap therewith, a carriage having hooks removably and slidably engaging the belt, a pad carried by the carriage, and a guiding loop upon the carriage, the other end of the elastic strap being led through the said loop and connected to the carriage.

In testimony whereof I affix my signature.

TAYLOR M. CAMERON.