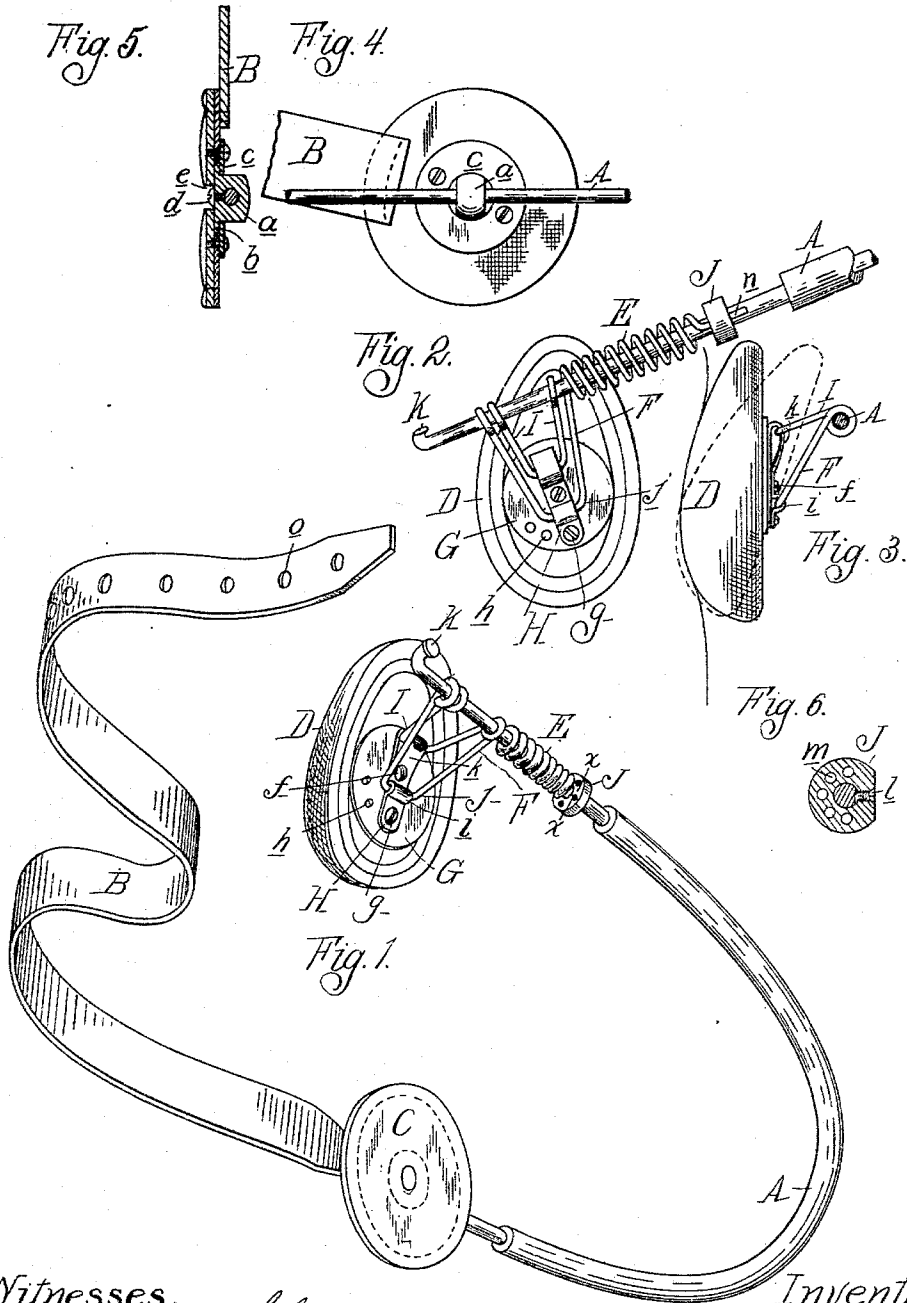


(No Model.)

T. W. BOOTH.  
TRUSS.

No. 603,004.

Patented Apr. 26, 1898.



Witnesses  
*Otto F. Bantel*  
*S. M. Hulbert*

Inventor:  
*Thomas W. Booth,*  
By *Wm. S. Mesquet & Son*  
Attorneys.

# UNITED STATES PATENT OFFICE.

THOMAS W. BOOTH, OF WINDSOR, CANADA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE OSCILLATING TRUSS COMPANY, OF DETROIT, MICHIGAN.

## TRUSS.

SPECIFICATION forming part of Letters Patent No. 603,004, dated April 26, 1898.

Application filed December 1, 1896. Serial No. 614,077. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. BOOTH, a subject of the Queen of Great Britain, residing at Windsor, in the county of Essex, Dominion of Canada, have invented certain new and useful Improvements in Trusses, of which the following is a specification, reference being had therein to the accompanying drawings.

10 It is the object of my invention to obtain a truss that will permit of a greater freedom of movement on the part of the wearer and one that may be readily adjusted to suit the requirements of the case.

15 The invention consists in the peculiar construction of the spring-holder for the front or rupture pad; further, in the construction of the rear pad, and, further, in the peculiar construction, arrangement, and combination of  
20 parts, as more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my improved truss. Fig. 2 is a front elevation of the front pad. Fig. 3 is a side  
25 elevation thereof. Fig. 4 is an elevation of the rear pad, and Fig. 5 is a central cross-section thereof. Fig. 6 is a cross-section on line  $x x$ , Fig. 1.

30 The body-band or girth of my truss comprises the C-shaped frame A, preferably formed of spring metal and adapted to pass partly around the body of the wearer, and the flexible connecting-strap B for securing the frame A in position.

35 C is the rear pad, which consists of a disk preferably formed of one or more layers of leather, to which the strap B is secured, said disk being provided with an adjustable swivel connection to the rear arm of the frame A,  
40 comprising the post  $a$ , having the head  $b$ , engaging with the centrally-apertured plate  $c$ , secured to the front of the disk, as shown in Figs. 4 and 5 of the drawings. The part  $a$  is provided with a transverse aperture adapted  
45 to receive the rear arm of the frame A, to which it is secured by a set-screw  $d$ , passing in through the head of the post.

$e$  is an aperture through the center of the pad C, through which a screw-driver may be  
50 introduced to adjust the set-screw  $d$ .

The front or rupture pad of the truss is se-

cured to the frame A by means of an adjustable laterally-extending spring-arm, which presses the pad against the body and at the same time permits it to follow freely all move-  
55 ments of the body.

The construction which I preferably employ is shown in the drawings, in which—

D is the usual oval-shaped pad.

E is a coil of spring-wire sleeved upon the  
60 front arm of the frame A.

F is a loop or U shaped bend formed at one end of the wire E.

G is a plate secured to pad D.

65 H is a strap or plate pivotally secured to the center of the plate G by the screw  $f$  and having the screw  $g$ , adapted to engage in any one of a number of apertures  $h$  in the plate G for holding the plate in different adjusted positions.  
70

$i$  is a bearing formed in the strap H, with which the end  $j$  of the loop F is adapted to pivotally engage.

75 I is a brace, preferably in the form of a wire loop, hinged to the frame A and adapted to fold within the loop F.

$k$  is a looped bearing formed as an extremity of the plate H, with which the end of the loop I is adapted to slidingly engage, said loop forming a folding brace and connecting-link  
80 for holding the pad in position.

J is a collar adjustably secured upon the frame A by the set-screw  $l$  and provided with a series of apertures  $m$ , with which the end  $n$  of the coil-spring E is adapted to engage.  
85

K is a hook formed in the end of the front arm of the frame A, adapted to engage with apertures  $o$  in the strap B.

90 The parts being thus constructed, to adjust the device to fit the wearer, either or both the front and rear pads may be adjusted longitudinally in the frame A by loosening the set-screw  $d$  and  $l$ .

95 The pad D may be so adjusted as to bring its major axis into line with the rupture by means of the different apertures  $h$  in the plate G. The tension on the spring E is altered by engaging the end  $n$  with different apertures in the collar J.

100 When fitted to the wearer, the truss may be secured in position by engaging the strap B with the hook K, the normal position of the

pad D being as shown in full lines in Fig. 3 of the drawings, in which the arm or loop F and folding brace I are inclined downwardly and press the pad against the body with a slightly-upward pressure. If the body is bent forward, the pad is free to move in the position shown in dotted lines when the brace I is folded. The rear pad C being swiveled to the frame A permits of a side bending movement of the body.

What I claim as my invention is—

1. In a truss, the combination with a girth, of a lateral spring-arm connected to the girth, a pad hingedly secured to the end of the arm, and a brace having a loose connection with the girth and also having a loose connection with the pad.

2. In a truss, the combination with the girth, of a spring-arm extending laterally from said girth, a pad hinged to said arm, a brace hingedly connected to the girth and having a sliding connection with the pad.

3. In a truss, the combination with a girth, of a laterally-extending spring-arm connected to the girth, a pad hingedly connected to the end of said arm, and a bracing means for holding the pad in proper position at the end of the arm.

4. In a truss, the combination with the girth comprising the bent frame A and strap B, of a coil-spring sleeved upon the frame A and secured thereto at one end, an arm projecting laterally from the other end of said coil-spring and movable relative to the frame A, and a pad hingedly secured to the end of said arm.

5. In a truss, the combination with the girth, comprising the C-shaped frame A and connecting-strap B, of the collar J longitudinally adjustably secured upon the forward arm of said frame, the coil-spring E sleeved upon said arm and rotatably adjustably secured to the collar J, the looped arm F formed at the opposite end of said coil, and the pad hinged to the end of said loop.

6. In a truss, the combination with the girth and the pad, of a lateral spring-arm movably secured to said girth and hinged to said pad and the folding brace I connecting said girth and pad.

7. In a truss, a girth comprising the C-shaped frame A having the hook K at the end of its forward arm, the part *a* longitudinally, adjustably secured to the back arm of said frame, the back pad C swiveled upon said part and the strap B secured at one end to said pad and adapted to engage with the hook K.

8. In a truss, the back pad C comprising a disk of leather or similar material having the central aperture *e*, the front plate *c* secured to said disk, the transversely-apertured post *a* swiveled in the plate *c* and adapted to be sleeved upon the girth, and the set-screw *d* in said post in line with the aperture *e*.

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

THOMAS W. BOOTH.

Witnesses:

JAMES WHITEMORE,  
OTTO F. BARTHEL.