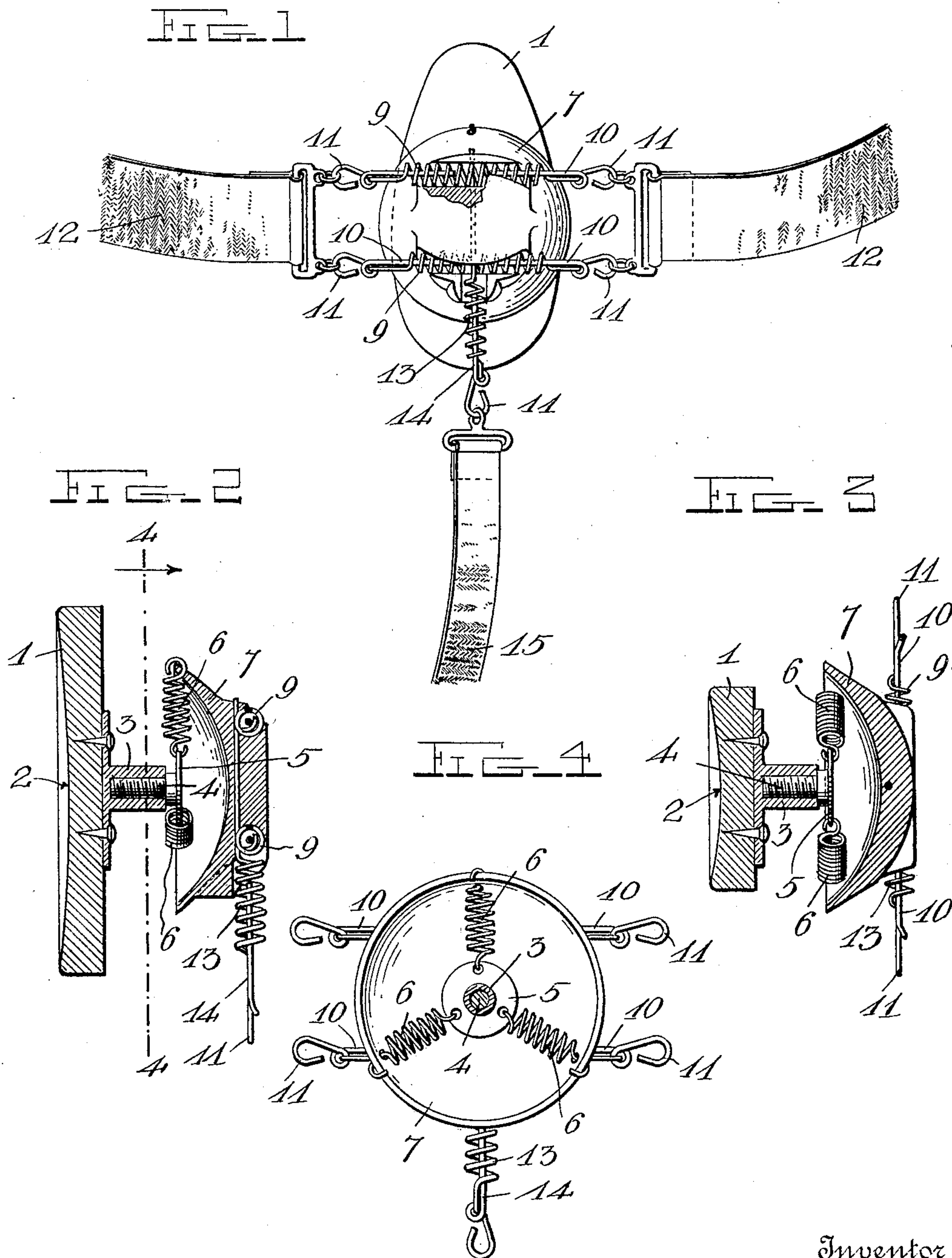


No. 822,822.

PATENTED JUNE 5, 1906.

J. H. CAMPBELL.
TRUSS.

APPLICATION FILED JAN. 18, 1906.



Witnesses
C. H. Giestauer.

Inventor
James H. Campbell

by *A. B. Wilson*
Attorney

UNITED STATES PATENT OFFICE.

JAMES H. CAMPBELL, OF LAKEPORT, NEW HAMPSHIRE.

TRUSS.

No. 822,822.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed January 18, 1906. Serial No. 296,700.

To all whom it may concern:

Be it known that I, JAMES H. CAMPBELL, a citizen of the United States, residing at Lakeport, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in 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.

This invention relates to improvements in trusses.

The object of the invention is to provide a truss having means whereby the same may be yieldingly attached to the body to permit a perfect freedom of movement.

A further object is to provide a truss having a pad provided with a concave bearing-surface, whereby a firm grip will be had upon the afflicted parts, and means whereby a yielding pressure will at all times be exerted upon the pad.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the pad and holder, showing a portion of the attaching-straps. Fig. 2 is a vertical longitudinal sectional view of the pad and holder. Fig. 3 is a central horizontal sectional view of the same, and Fig. 4 is a vertical sectional view on the line 4 4 of Fig. 2 looking in the direction of the arrow.

Referring more particularly to the drawings, 1 denotes the pad, which is preferably elliptical or egg-shaped in form and is provided with a concave bearing-surface 2. On the back of the pad is secured a hollow interiorly-threaded shank 3, into which is adapted to be screwed a bolt 4, having a flanged head 5. To the latter are connected three or more radially-disposed spiral springs 6, the outer ends of which are connected to the inner edge of a bell-shaped holder 7. By connecting the holder 7 to the bolt 4 the pad may be adjusted with respect to said holder, as will be understood, and by providing a yielding spring connection between the holder and the bolt 4 a yielding pressure may be imparted to the pad. At the same time a great

freedom of movement of the body will be permitted without interfering with or moving the pad from its position.

On the outer side of the holder 7 are secured upper and lower parallel coiled springs 9, which extend beyond the sides of the holder a suitable distance and have their ends connected with spring-metal rods 10, which extend into said coiled springs, as shown, to impart rigidity to the latter. The outer ends of the rods 10 are provided with rings 11, to which are connected hooks on the ends of body-attaching straps 12.

To the lower central portion of the holder 7 is connected the inner end of a coiled spring 13, the outer end of which is connected to a spring-metal rod 14, which extends into said coiled spring to impart rigidity thereto. The outer end of the rod 14 is provided with an eye or ring to which is adapted to be connected the hook on the end of a thigh-strap 15, as shown.

If desired, the coiled springs 9 and 13 may be suitably covered to present a more attractive appearance, said covering being left off in the drawings to more clearly disclose the construction and arrangement of the springs.

By providing spring connections such as herein shown and described for securing the attaching-straps to the holder a firm but yielding support is provided for the pad of the truss, causing said pad to hold the afflicted parts in correct position and at the same time permitting freedom of movement of the body and limbs of the wearer.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a truss, the combination with a pad having a concave bearing-surface and a threaded shank, of a bell-shaped holder, an attaching-bolt adapted to be screwed into engagement with said shank, yielding con-

nections between said bolt and said holder, and means to yieldingly attach said holder to the body, substantially as described.

2. In a truss, the combination with a pad
5 having a concave bearing-surface and a threaded shank, of a bell-shaped holder, an attaching-bolt adapted to be screwed into engagement with said shank, a flanged head
10 formed on said bolt, springs to connect said holder with said flanged head of the bolt, attaching-straps and yielding connections arranged between the ends of said straps and said holder, substantially as described.

3. In a truss, the combination with a pad
15 having a concave bearing-surface and a threaded shank, of a bell-shaped holder, an attaching-bolt adapted to be screwed into engagement with said shank, springs to connect said holder with said bolt, side attaching-springs, and a centrally-disposed lower
20 attaching-spring arranged on the outside of said holder, and body and thigh attaching-straps adapted to be connected to said spring, substantially as described.

25 4. In a truss, the combination with a pad

having a concave bearing-surface and a hollow interiorly-threaded shank, of a bell-shaped holder, an attaching-bolt adapted to be screwed into engagement with said shank, a flanged head formed on said bolt, radially-
30 disposed spiral springs to connect said holder with the flanged head of said bolt, parallel, coiled, side attaching-springs connected to the outer side of said holder and having spring-metal bracing-rods arranged therein,
35 body-attaching straps adapted to be connected to said springs, a lower, centrally-disposed coiled attaching-spring connected to the holder, said coiled spring having a spring-metal bracing-rod arranged therein and a
40 thigh-strap adapted to be connected to said lower spring, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES H. CAMPBELL.

Witnesses:

FRED W. PAGE,
C. E. EMERSON.