

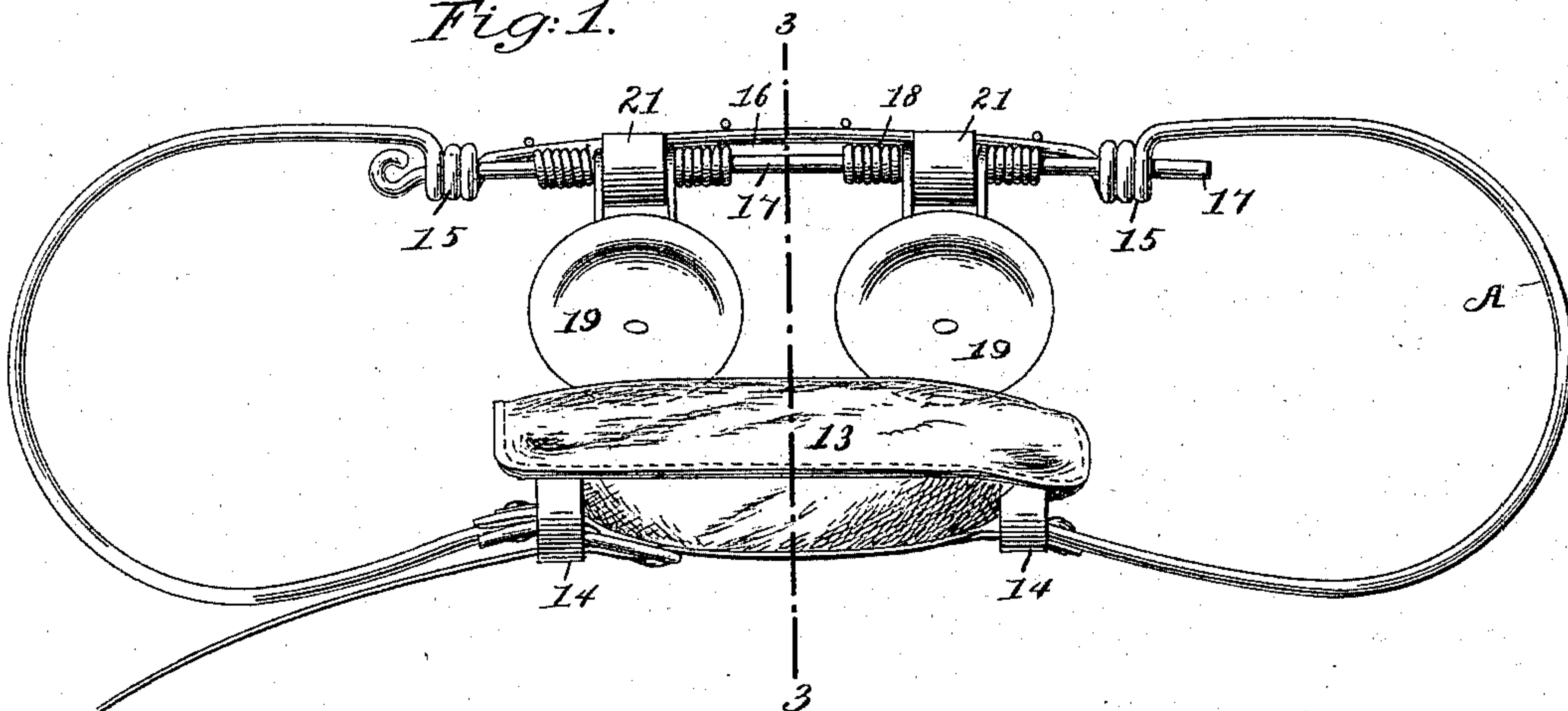
(No Model.)

D. REID.  
TRUSS.

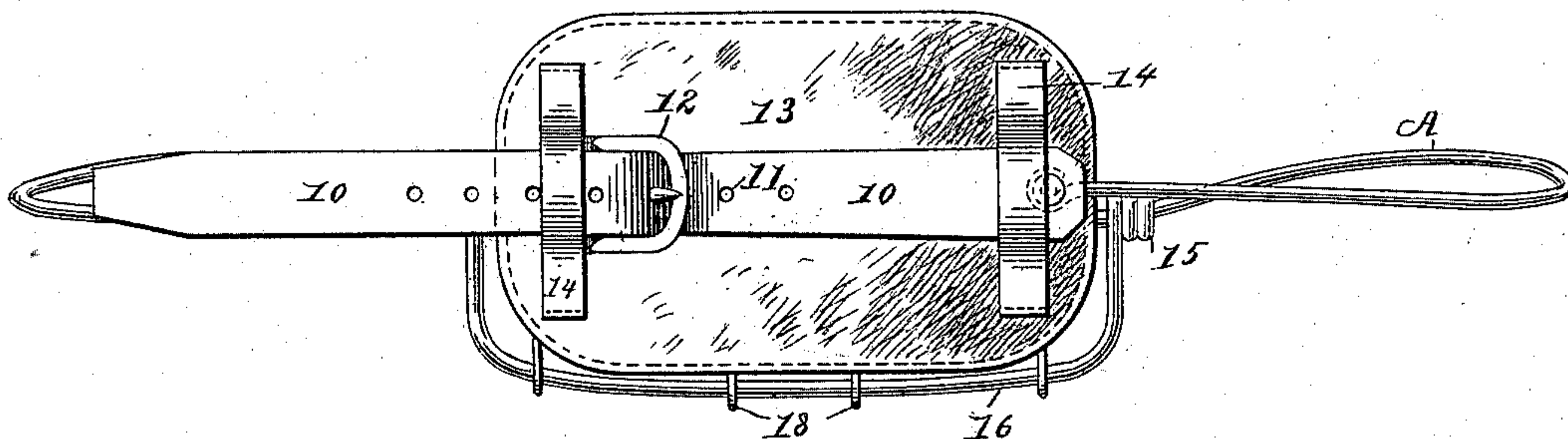
No. 540,110.

Patented May 28, 1895.

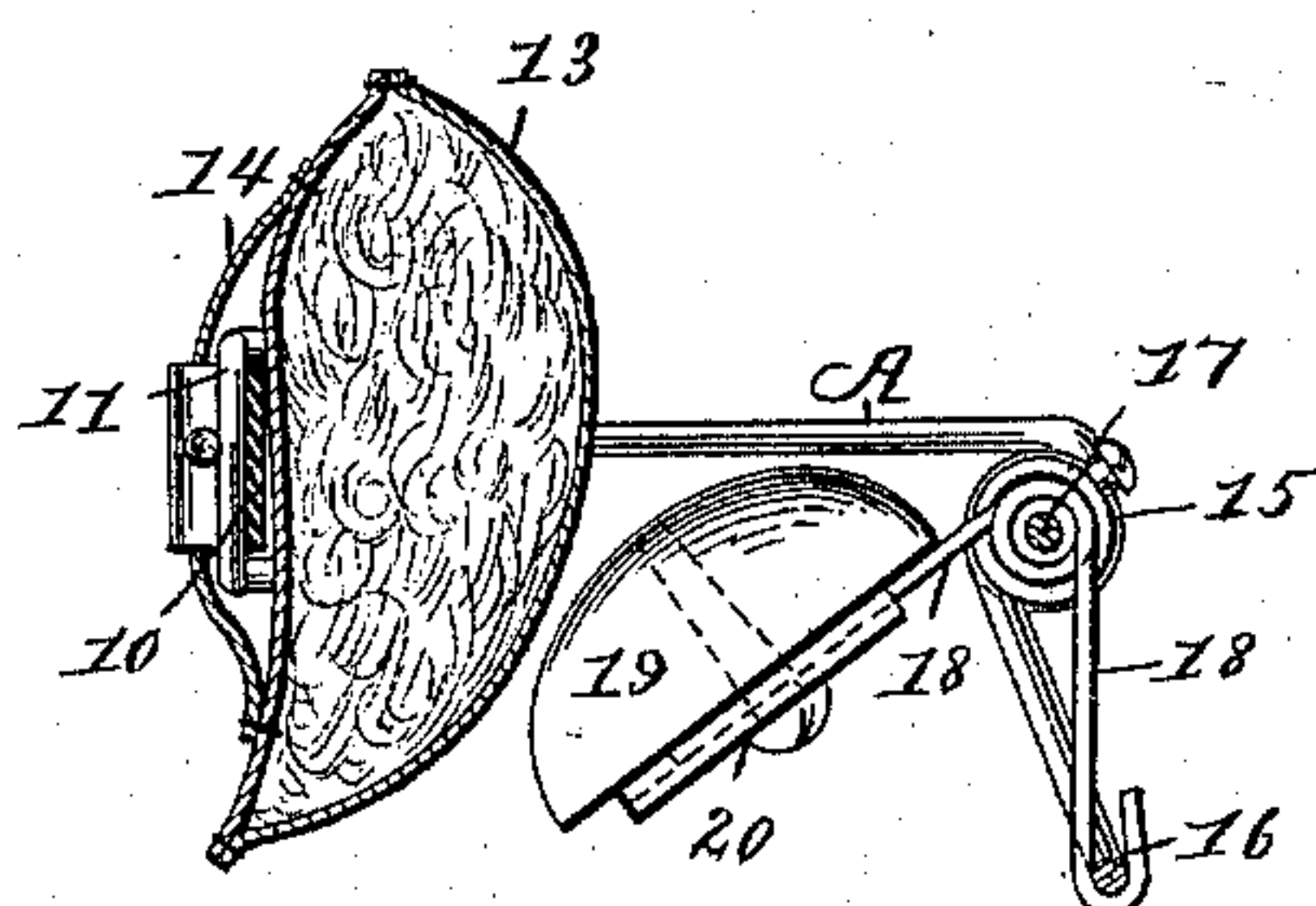
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

DOUGLAS REID, OF NEW RICHMOND, WISCONSIN.

## TRUSS.

SPECIFICATION forming part of Letters Patent No. 540,110, dated May 28, 1895.

Application filed August 15, 1894. Serial No. 520,387. (No model.)

*To all whom it may concern:*

Be it known that I, DOUGLAS REID, of New Richmond, in the county of St. Croix and State of Wisconsin, have invented a new and Improved Truss, of which the following is a full, clear, and exact description.

My invention relates to an improvement in trusses, and it has for its object to so construct a truss that when applied to a person it will not bind the hips or contact therewith or in any manner impede locomotion or interfere with the free movement of the limbs.

Another object of the invention is to provide a means whereby the pressure of the pad upon the person may be increased or diminished by drawing together the rear portions of the frame or band of the truss, and whereby also the truss will be so constructed as to insure and maintain the delicate pressure so necessary to successfully hold back the intestines, and at the same time retain the pads in their proper position.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improved truss. Fig. 2 is a rear elevation thereof, and Fig. 3 is a vertical section taken essentially on the line 3 3 of Fig. 1.

In carrying out the invention the band A of the truss is preferably made of metal, for example, spring wire of suitable thickness. The band is considerably elongated, and at its ends is shaped to surround and receive the hips, yet not engage therewith. The band is broken at the back, and its ends may be drawn together by attaching to one of its extremities a tab 10, preferably a strap having apertures 11 produced therein, and securing to the other extremity of the band a buckle 12 to receive the strap; and the band at its extremities is more or less curved in an inwardly direction, as shown in Fig. 1, which gives somewhat of a circular form to the end portions of the band proper, as is likewise illustrated in Fig. 1. A cushion 13 is located at

the opening in the band, and said cushion is provided with straps or loops 14, through which the strap and buckle 12 are passed. At the front central portion of the band, the wire or material of which the band is made is at each side of its center formed into a coil 15, thereby producing two eyes in the said front section, and from the eyes the material of the band is carried downward to form a longitudinal yoke or substantially U-shaped member 16, having ordinarily somewhat of an outward inclination; and the said yoke is also somewhat longitudinally curved as illustrated in Fig. 1.

A pin or spindle 17 is passed through the eyes or coils 15 in the band or truss, and springs 18 are coiled around the pin and secured to the body or bow section of the yoke. These springs are attached to pads 19, the pads being provided with a back plate or facing 20, and to the said facing, or to the outer faces of the pads direct, the ends of two springs 18 are secured, spaced by blocks or sleeves 21 located upon the pin or spindle 17, and serving to space the springs. The action of the springs is to hold the pads opposite the cushion 13 with an inward and upward inclination; and it may here be remarked that the cushion is preferably made from an anti-septic, or from a non-heat-conducting material, while the pads may be made of any material suitable for the purpose.

It is evident that when the truss is placed in position upon the person, owing to the construction of the end portions of the truss or band, it will not chafe or even come in contact with the thighs, and will leave the limbs perfectly free for any action they may be called upon to perform. At the same time the tension of the pads upon the person may be increased or decreased according as the extremities of the band are brought together by the strap and buckle or their equivalents, or are permitted to separate, as when the extremities of the band are drawn together the forward portion will be more or less bowed, and consequently the pads will be carried to a greater extent inward, while the springs constantly act with delicate pressure upon the intestines.

The supporting pin or spindle 17 for the springs and pads is an important feature,



since it not only supports the springs and pads, but should any trouble arise, such as a breakage or a derangement of a spring or an occasion for the change of a spring, the pin is simply drawn out and the spring unhooked from the yoke.

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

10 1. A truss, comprising a band provided between its ends with spaced eyes, a pin or pintle removably held in said eyes, and pads carried by said pin or pintle, substantially as and for the purpose set forth.

15 2. A truss, comprising a metallic band provided with coils forming eyes, a pin or pintle removably held in said eyes, and pads carried by the pin or pintle, substantially as described.

20 3. A truss, comprising a metallic band provided with coils, a pin or pintle held in the coils, springs on the pintle, and engaging the band and pads carried by the springs, substantially as described.

25 4. A truss, comprising a metallic band, provided with a yoke and a coil at each end of the yoke, a pin in the coils, springs coiled around the pin and having one end secured

to the yoke, and pads carried by the other ends of the springs substantially as described.

5. A truss, comprising a metallic band provided with a yoke and a coil at each end of the yoke, the ends of the band being adjustably connected together, a pad at the rear of the band, a pin held in the said coils, springs coiled on the pin and secured to the yoke of the band, and pads carried by the said springs, substantially as described. 30 35

6. In a truss, a spring band of elongated shape divided at the back and provided at the division therein with a device for drawing the extremities together, and a cushion covering the break, a yoke formed in the front central portion of the band, extending downwardly therefrom, a rod supported at the upper portion of the yoke and substantially constituting a continuation of the band proper, and spring-controlled pads supported combinedly by the said band and yoke, the pads having an upward and rearward inclination, as and for the purpose specified. 40 45

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Witnesses:

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