

(Model.)

H SCHEUERLE.

TRUSS.

No. 340,822.

Patented Apr. 27, 1886.

Fig. 1.

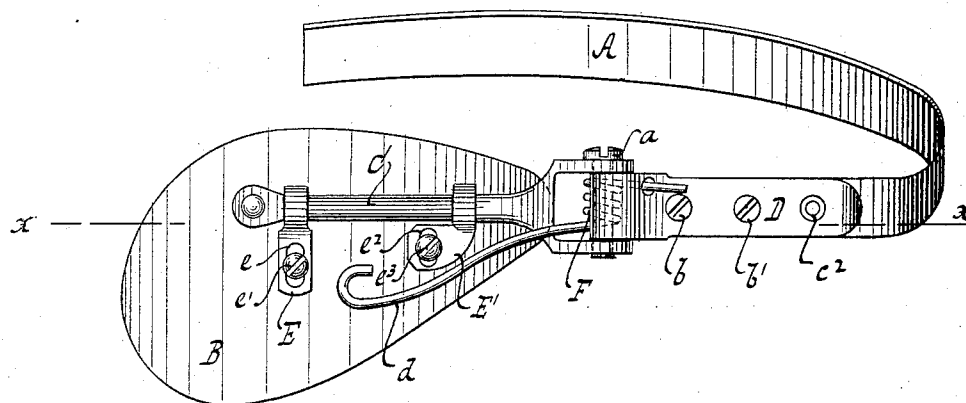


Fig. 2.

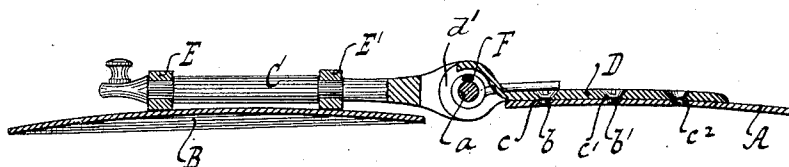
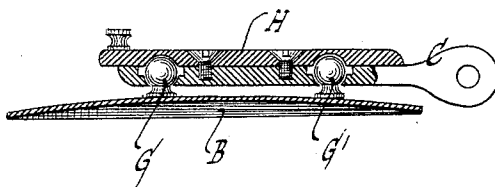


Fig. 3.



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TRUSS.

SPECIFICATION forming part of Letters Patent No. 340,822, dated April 27, 1886.

Application filed November 12, 1885. Serial No. 182,615. (Model.)

To all whom it may concern:

Be it known that I, HENRY SCHEUERLE, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Trusses, of which the following is a specification.

My invention relates to improvements in trusses; and it consists in the combination of devices hereinafter described and claimed, to provide a novel truss, which will adjust itself directly to the rupture and exert a steady but gentle pressure.

The invention is illustrated by the accompanying drawings, in which Figure 1 is a face view of my improved truss, the covering being removed. Fig. 2 is a horizontal section of the same in the plane $x x$, Fig. 1. Fig. 3 is a sectional view of a modification.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates the body-spring of the truss, and B is the pad-plate. The pad-plate B is attached to the body-spring by means of an arm, C, one end of which is bifurcated and hinged by a pivot, a , to lugs d , Fig. 2, on an extension, D, which latter is secured to the body-spring by screws $b b'$, which engage threaded holes $c c'$ in the body-spring.

The arm C could be directly secured to the body-spring; but I prefer to secure the same to the extension D, in order that the pad-plate can be adjusted toward and from the end of the body-spring, such adjustment being effected by providing the body-spring with threaded holes, (three or more,) any pair of which can be engaged by the screws $b b'$, extending through the extension D.

The pad-plate B is attached to the arm C by adjustable blocks E E', placed at the proper distance apart, the block E being adjustable along a slot, e , Fig. 1, and is secured by a screw, e' , and the block E' is adjustable along a slot, e'' , and is secured by a screw, e'' .

The arm C is supported by a spring, F, which is coiled about the pivot a , and one end of which abuts against the extension D, while the other end or prolongation, d , supports the spring-arm C. The prolongation d also acts against the back of the pad-plate B. The pad-plate B can turn about the arm C, in order to

adjust itself to the rupture. During this motion the pad-plate is under the action of the spring, since the prolongation is in contact therewith.

In the modification shown in Fig. 3 the pad-plate B is hinged to the body-spring A in precisely the same manner as before; but the arm C is made flat, and the pad-plate is attached thereto by ball-and-socket joints G G', so that the pad-plate can turn axially, as before. A covering-plate, H, is secured over the arm C.

The object of my invention is to produce a truss which will adjust itself directly to the rupture and exert a steady but gentle pressure, this being accomplished by constructing the truss with pad-plates which can move freely both about the end of the body-spring and axially about the arms to which said body-plates are attached.

A truss has heretofore been composed of a metallic waistband, a slide movable along the band, an arm pivoted to the slide and projecting at right angles to the band, and having a tail-piece behind its pivot, which is acted upon by a flat spring secured to the slide, and a pad swiveled to said arm. In another instance a truss has been composed of a metallic band having at one end a strip of metal adjustable along the length of the band and a pad-carrying arm pivoted to the end of the strip and adjustable vertically in a direction substantially at right angles to the waistband. A truss has also been composed of a metallic waistband, a slide movable along the band, a pad-carrying arm pivoted to the slide and projecting therefrom at right angles to the band, and a spring coiled on the pivot pin of the arm, to act on the latter and press the pad inward. The several prior constructions above specified do not, however, constitute my invention, and are not herein claimed.

In my invention the pad-carrying arm extends longitudinally in the direction of the length of the body-spring. The pad-plate is so hinged to the arm as to turn axially in a direction around the same substantially at right angles to the longitudinal center of such arm, and the spring coiled on the pivot-pin of the pad-carrying arm is constructed with an extension which extends along the pad-plate and so acts on the latter between its hinged

attachment and its lower edge as to impart to the pad a tendency to turn axially on the arm, and thereby throw its lower side upwardly to press upward on the part to which applied.
5 It will thus be seen that the coiled spring, with its prolongation, performs two functions—to wit, it presses the arm C and pad-plate B inward, so that the arm tends to turn on the pivot-pin *a*, and it also presses upon the pad-plate, so that it tends to turn axially on the arm. In this respect the invention differs
10 from prior constructions.

What I claim as new, and desire to secure by Letters Patent, is—

15 The combination, with the body-spring A, of a pivot-pin, *a*, connected with one end thereof, the arm C, hinged by said pin, the

pad-plate B, hinged to the arm to turn axially around the latter, and the spring F, coiled on the pivot-pin and having a prolongation, *d*,
20 acting on the said arm and extending along the pad-plate and bearing thereupon at one side of its hinge-line, whereby the spring tends to turn the arm on its pivot, and also to turn the pad plate axially on the arm, substantially
25 as described.

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

HENRY SCHEUERLE. [L. S.]

Witnesses:

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