

No. 875,122.

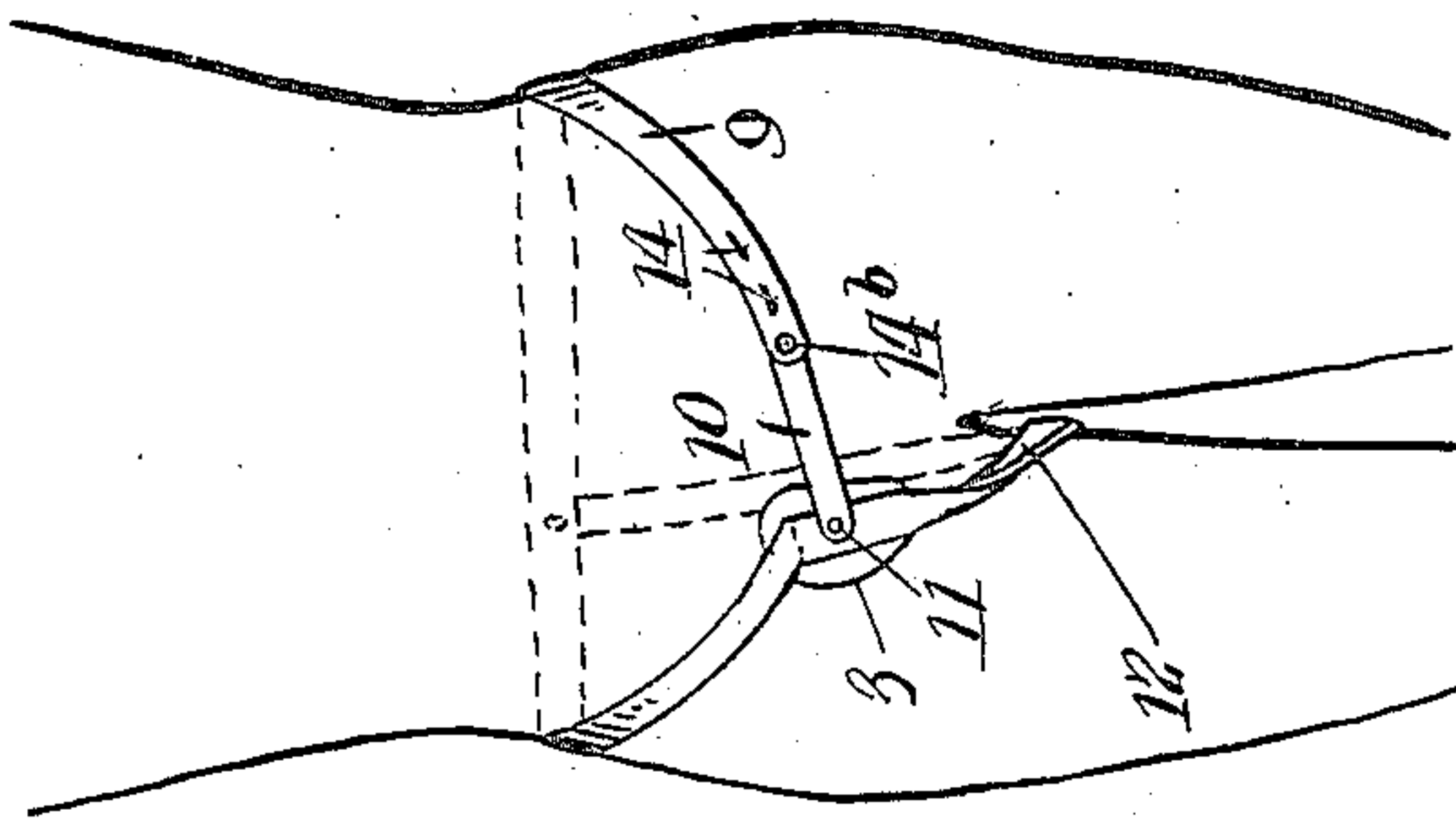
PATENTED DEC. 31, 1907.

B. S. SILLS.

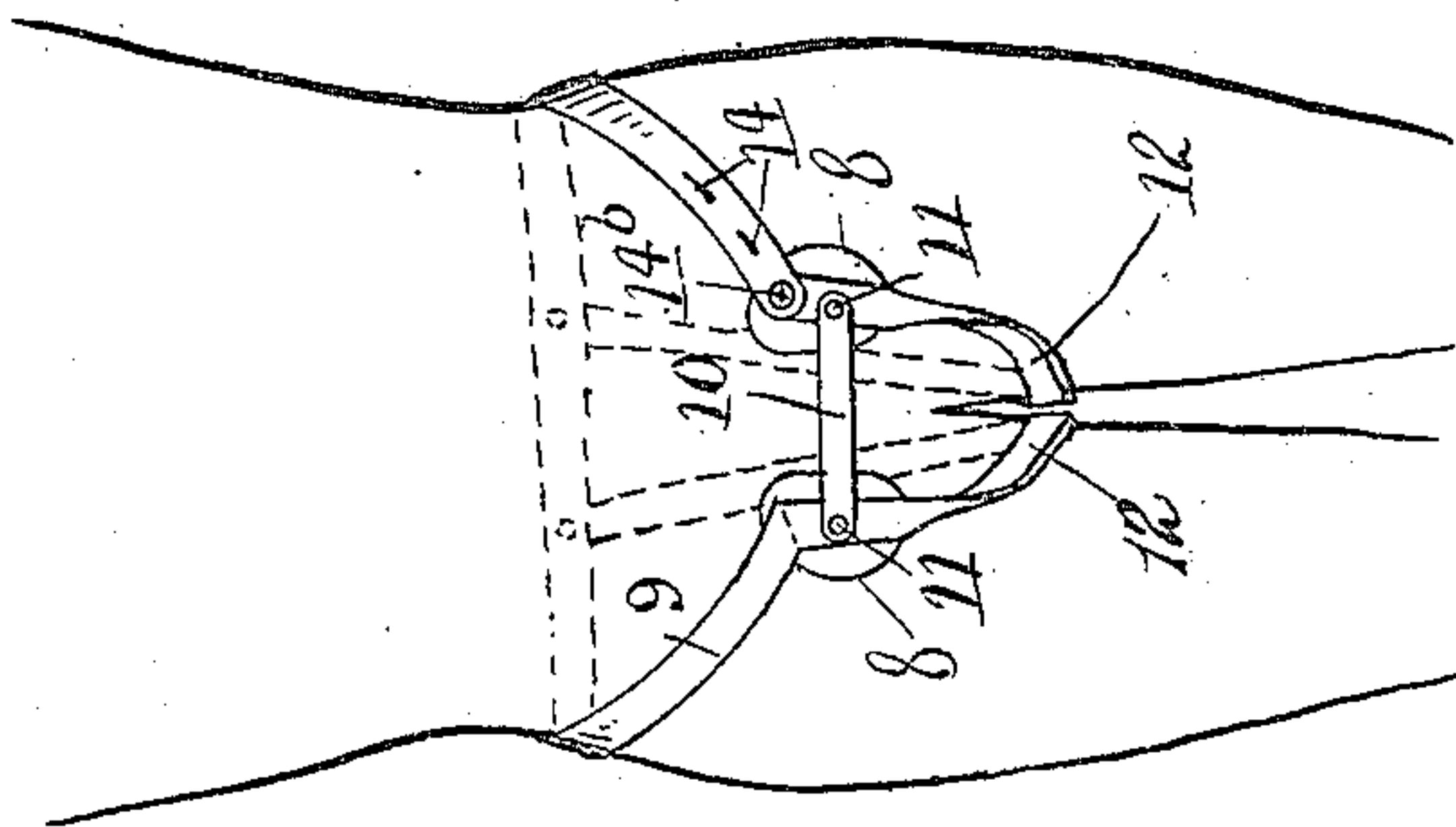
TRUSS.

APPLICATION FILED JULY 22, 1907.

3 SHEETS—SHEET 1.



*H. D. A.*



*H. D. A.*

Witnesses:

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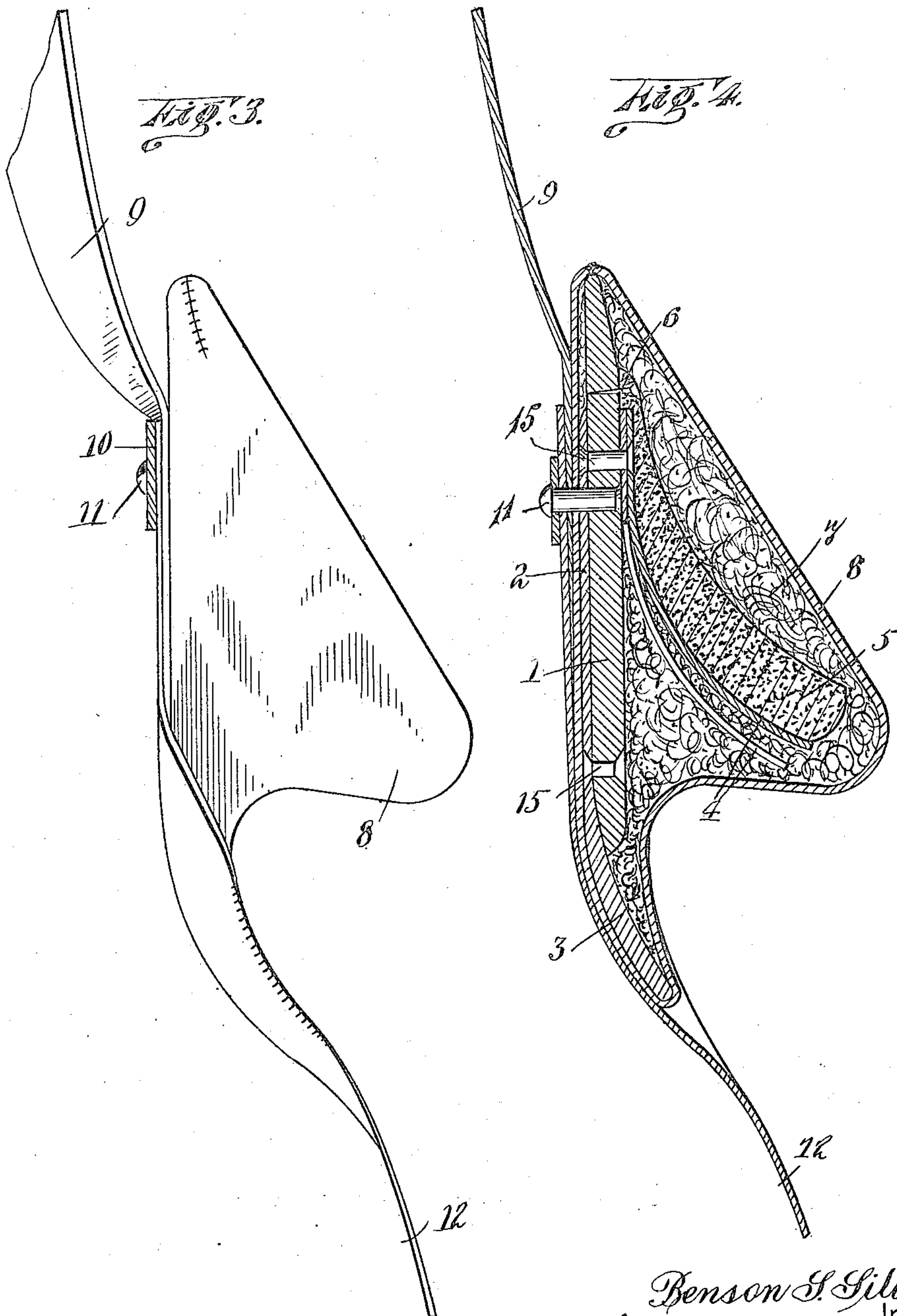
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3 SHEETS—SHEET 2.



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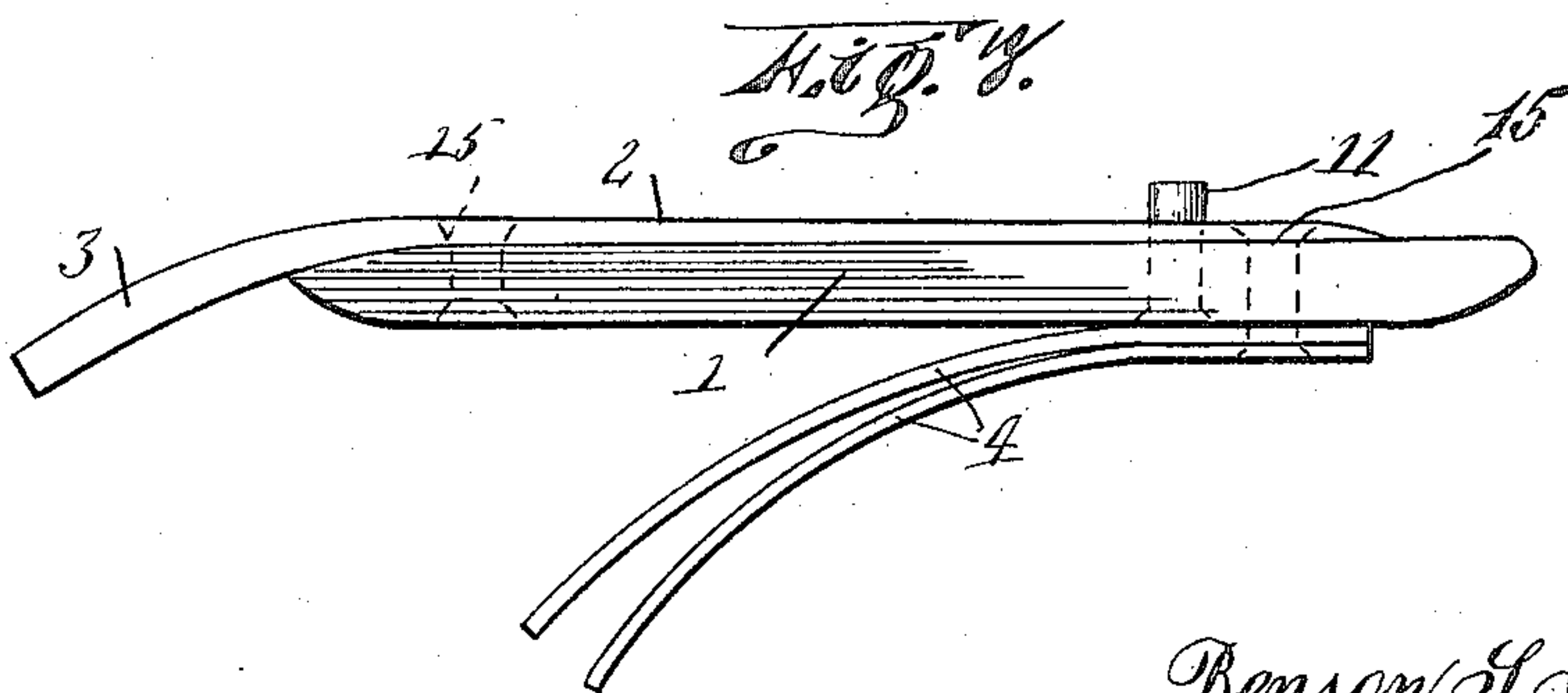
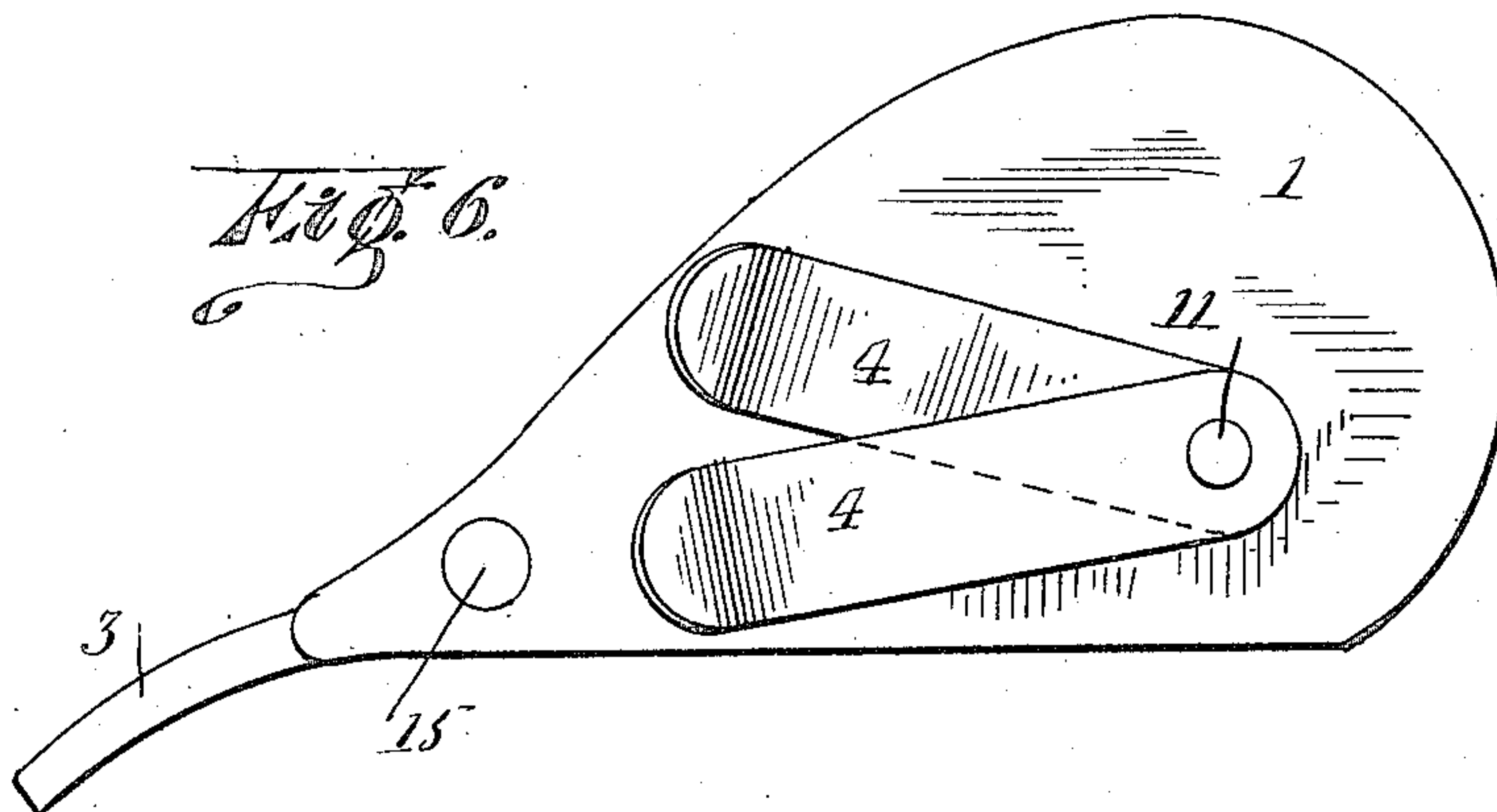
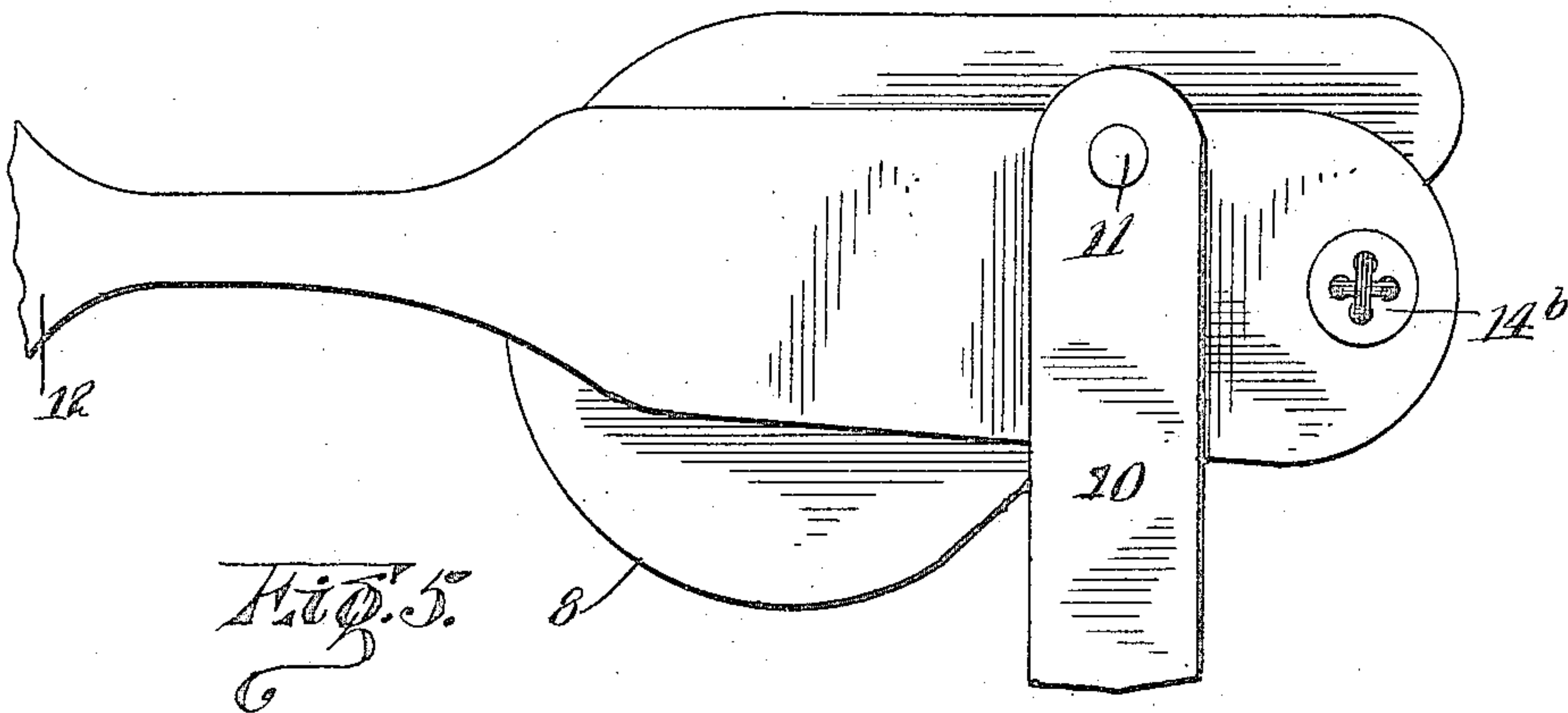
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B. S. SILLS.  
TRUSS.

APPLICATION FILED JULY 22, 1907.

3 SHEETS—SHEET 3.



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# UNITED STATES PATENT OFFICE.

BENSON SMITH SILLS, OF BELLEVILLE, ONTARIO, CANADA.

## TRUSS.

No. 875,122.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed July 22, 1907. Serial No. 385,067.

*To all whom it may concern:*

Be it known that I, BENSON SMITH SILLS, a subject of the King of Great Britain, residing at Belleville, county of Hastings, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Trusses; and I do hereby declare that the following is 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.

My invention relates to trusses.

The object of my invention is to provide a construction which will not hurt the wearer when the impact of a blow is received on the outer face of the truss.

A further object is to provide a construction which may be readily held in place by a loose belt, to permit freedom of movement of the wearer.

A further object is to provide a construction which is supported by a loose belt and provided with means for preventing its rocking, so as to prevent chafing of the wearer.

My invention consists of the construction combination and arrangement of parts, as herein illustrated, described and claimed.

In the accompanying drawings, forming part of this application, I have illustrated one form of embodiment of my invention, in which drawings similar reference characters designate corresponding parts, and in which:

Figure 1 is a front elevation, showing the application of a double truss; Fig. 2 is a front elevation, showing the application of a single truss; Fig. 3 is a side elevation of the truss casing; Fig. 4 is a vertical section through the truss; Fig. 5 is a front elevation of the truss with one of the straps and the link broken away; Fig. 6 is an inside or rear elevation of the base of the truss, with the pad, casing, and filling removed; and, Fig. 7 is an edge elevation of the base and its immediately connected parts.

Broadly stated the invention comprises a spring pad, carrying base having a curved rod or brace secured thereon. The upper end of the pad is adapted to be supported by a loose belt while a tightening strap has one end secured to the rod and has its opposite end attached to the belt so that the rod acts as a lever to press the pad into position, and also prevents friction against and chafing of the wearer. One end of the supporting belt is preferably connected to the base by a link which permits a slight play.

Referring to the drawings, 1 designates a base, of suitable light material, to the lower end of which is secured a metallic brace or rod 2, having a curved lower end 3 extending far enough down the leg of the wearer to be secured by a strap, the latter of which is attached to a loose belt. Carried by the inner face of the base 1, is a plurality of superposed curved spring 4, or only one spring may be used, to the rearmost of which is secured a pad 5 of felt, which pad is held in position at its upper end by means of the securing tack 6. A filling 7 is placed around the pad 5 and the springs 4, and the entire structure is surrounded by a casing 8 of leather or similar material.

For the purpose of supporting the construction described, a loose belt 9 has one end secured to the front side of the base 1, and has its opposite end removably attached to a link 10, which is pivoted to the brace 2. A single rivet 11 serves to hold the belt 9, the link 10, and the casing 8, in one unitary construction, permitting the link 10 to swing thereon. A strap 12 has one end secured on the curved lower end 3 of the brace 2, and its opposite end secured to the loose belt 9 after having passed around the hip of the wearer. The belt 9 is provided with holes 14 adapted to engage over a button 14<sup>b</sup> carried by the free end of the link 10. The brace 2 is secured to the base 1 by means of rivets 15, one of which passes through the ends of the springs 4.

When a double truss is to be used instead of a single truss, the link 10 is connected directly to the brace 2, and the body belt removably attached to the upper end of the brace.

In the operation of the invention, the truss is placed in position and the body belt 9 loosely disposed around the body of the wearer and the button 14<sup>b</sup> engaged in the buttonholes 14. The strap 12 having one end attached to the rod or brace 2 is then passed around the hip of the wearer and secured to the belt 9. This pulls the pad tightly against the body of the wearer, producing a slight tension on the springs 4, and maintains the pad in position. The brace 2 being curved, it does not touch the body of the wearer except at its lower end, and the only other bearing point is the face of the casing 8, so that friction and chafing is avoided. The impact of a blow struck on the outer face of the casing 8 is taken up by the



resiliency of the springs 4, so that the body of the wearer is not hurt by such blow.

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

5 Letters-Patent, is:—

1. A truss comprising a base member, a curved brace having one end secured to the base member, a pair of springs having one of their ends secured to the base, a pad carried  
10 by the free end of one of the springs, a casing disposed over the base and the pad, a filling disposed in the casing means for attaching the casing to the body of a wearer, and means for securing the free end of the brace.

15 2. A truss comprising a base member, a curved brace having one end secured to the base member, a pad resiliently secured to the base member, a casing disposed over the base and the pad, a filling within the casing, a link  
20 having one end pivoted to the brace, a belt

having one end secured to the base and its opposite end removably attached to the link, and means for securing the free end of the brace.

3. A truss comprising a base member, a 25 curved brace having one end secured to the base member, a pad resiliently secured to the base, a casing disposed over the base and the pad, a filling within the casing, means for attaching the casing to the body of a wearer, 30 and a strap having one of its ends secured to the free end of the brace and having its opposite end attached to said means for attaching the casing.

In witness whereof I have hereunto set my 35 hand in the presence of two witnesses.

BENSON SMITH SILLS.

Witnesses:

F. S. WALLBRIDGE,  
BELLA WILSON.