

No. 618,334.

Patented Jan. 24, 1899.

J. M. CULLIS.
TRUSS.

(Application filed Mar. 23, 1898.)

(No Model.)

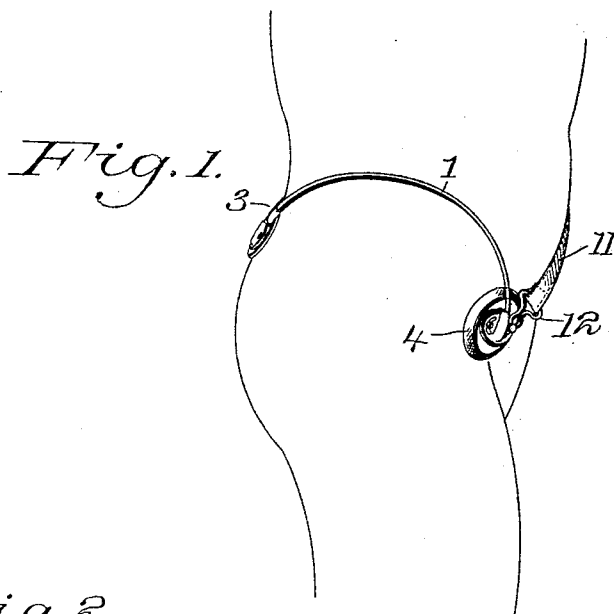
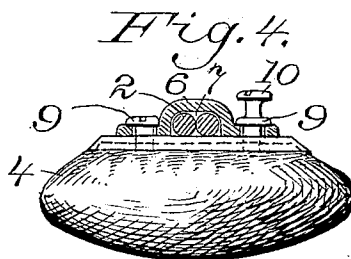
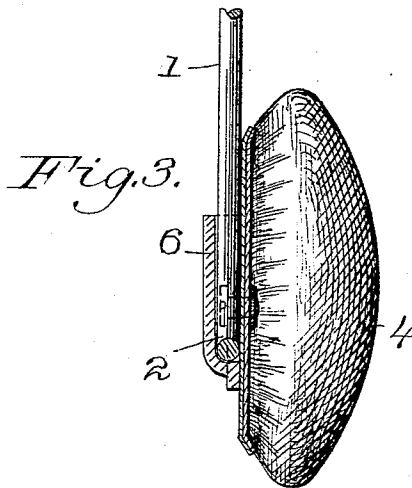
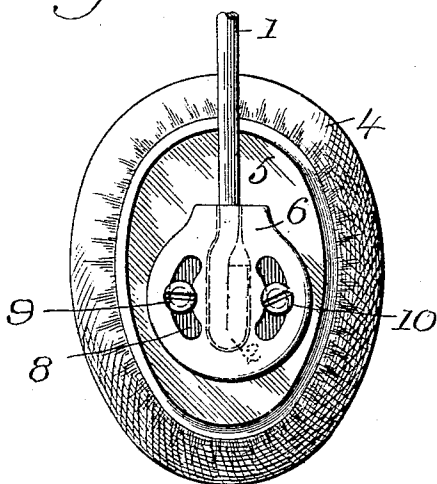


Fig. 2.



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TRUSS.

SPECIFICATION forming part of Letters Patent No. 618,334, dated January 24, 1899.

Application filed March 23, 1898. Serial No. 674,885. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARSHALL CULLIS, a citizen of the United States, and a resident of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Improvement in Trusses, of which the following is a specification.

My improved truss is constructed with a simple metal spring, preferably of round wire, terminating at one or at each end in a loop or close bend, which provides a flat end on the wire spring for rigid attachment to the pad-plate, to which it is confined by a saddle attached to the plate by screws passing through concentric slots in the saddle, so as to permit angular adjustment when the screws are loosened and to secure the parts in any position to which they may be set by tightening the screws.

In the accompanying drawings, Figure 1 is a perspective view showing my improved truss in position. Fig. 2 is a rear view of the front pad. Fig. 3 is a side view thereof, showing the saddle and spring in section. Fig. 4 is an end view showing the attachments in transverse section.

1 represents the truss-spring, preferably formed of round wire, as shown, terminating in front in a flattened loop 2, as shown in dotted lines, Fig. 2. The pad 4, cushioned in any suitable manner, is provided with a back plate 5, of metal, for the attachment of the spring end, which is confined thereon by a saddle 6, formed internally with a cavity 7, which is preferably adapted to approximately fit the bent end 2 of the spring, for which it forms a seat or socket. The recessed socket is closed around the extremity of the spring, as shown in Figs. 2 and 3, and at the other end is formed nearly to fit the round wire, so that when the attachments are loosened for adjustment the pad may still be confined to the spring without danger of dropping off. The saddle 6 is formed with two concentric slots 8, which receive the attaching-screws 9, by which the saddle is secured to the pad-plate. By loosening the said

screws 9 the pad 4 may be adjusted to any angle, and by tightening the screws the saddle and spring end will be firmly clamped on the back plate, so as to rigidly secure the pad in any position to which it is adjusted. The rear end of the spring may be formed in a similar way and the back pad attached thereto in the same manner, or a different and suitable attachment may be employed for the rear pad.

The truss is secured in position by a suspender 11, passing around the opposite hip of the wearer, the ends of the suspender being provided with suitable clips or loops 12, which fit over studs 10 provided therefor on the pad-plates, which studs are perfectly formed by an extension or elongation of one of the attaching-screws 9, as shown in Fig. 4.

The term "flat loop" is intended to apply to a loop on the end of the spring-wire which secures the saddle-plate against angular movement relatively to the spring, so that the truss-pad may be securely adjusted thereon by means of the concentric slots and clamp-bolts.

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

1. A truss constructed with a simple metal spring terminating in front in a flat loop 2; in combination with a recessed saddle-plate 6 and pad 4, 5; said saddle-plate constituting in conjunction with the looped end 2 of the spring the means of securing the pad to the spring and preventing relative torsional movement thereof as described.

2. The combination of the pad 4, 5, the metal spring 1, formed with a flat looped end 2, the recessed saddle-plate 6 forming a seat to receive and fit the looped end 2; and screws 9 securing the saddle-plate 6 to the pad-plate 5 and clamping the looped end 2 between them, as explained.

JOHN MARSHALL CULLIS.

Witnesses:

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