

D. SCHULER.
GARMENT STAY.
APPLICATION FILED MAY 17, 1912.

1,053,540.

Patented Feb. 18, 1913.

Fig. 1.

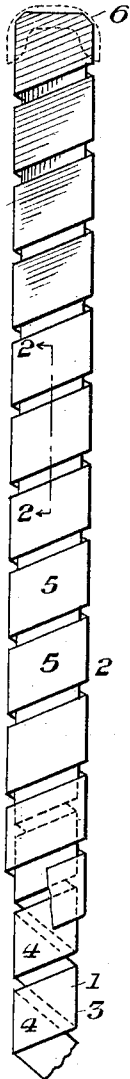


Fig. 2.

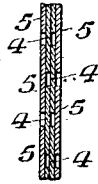


Fig. 4.

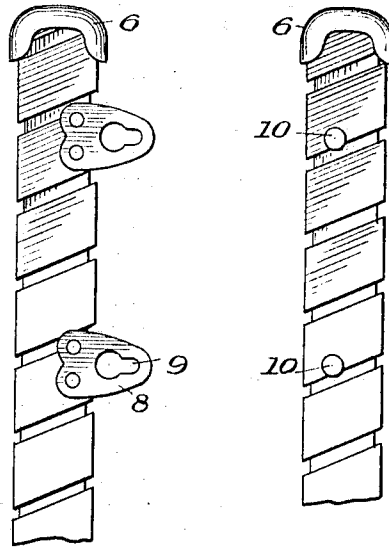


Fig. 5.

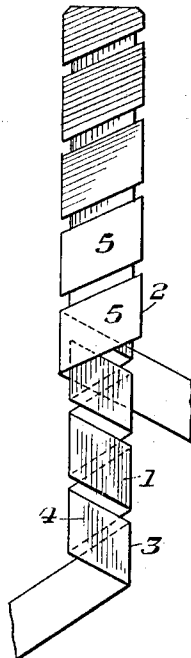
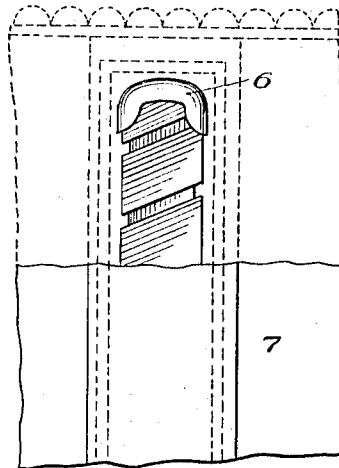


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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GARMENT-STAY.

1,053,540.

Specification of Letters Patent.

Patented Feb. 18, 1913.

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To all whom it may concern:

Be it known that I, DAVID SCHULER, a resident of Niagara Falls, Ontario, Canada, have invented a new and useful Improvement in Garment-Stays, of which the following is a specification.

This invention relates to stays for garments and the like and more particularly to corset stays.

10 The object of the invention is to provide a metal stay which is flexible and interchangeable with whale-bone, which does not readily break, and which can be adapted for use as a clasp.

15 The invention comprises a stay constructed as hereinafter described and claimed.

In the accompanying drawing Figure 1 is a face view of a stay constructed according to the invention; Fig. 2 is a section on a line 2—2, Fig. 1; Fig. 3 is a face view of a portion of the stay and its casing; Fig. 4 is a view illustrating the stay provided with clasps, and Fig. 5 is a face view showing a modification.

25 The stay illustrated is formed of two strips or ribbons of metal, 1 and 2 each bent or coiled to form a flat spiral with one inclosed within the other. The inner strip is bent alternately at the points 3 in opposite directions to form successive portions 4 sloping alternately in opposite directions and in close contact, so forming a flat spiral. The strip or ribbon 2 is bent in the same manner but around the inner spiral to form 35 the portions 5 sloping alternately in opposite directions. Both spirals may extend in the same direction, as shown in Fig. 1, with the outer spiral lapping over the spaces or joints between the coils of the inner spiral, or in opposite directions as shown in Fig. 5. If desired, the two strips or ribbons may be coiled spirally in helical form, one on the other, and then flattened down. In either case the stay is composed of an inner and 45 outer member, each being a flat spiral formed from a strip or thin ribbon of metal. More than two strips may be coiled together in the same way, if desired.

The ends of the stay may be finished by applying a sheet metal tip 6 thereto, or otherwise. The stay is inclosed in the usual casing 7. To adapt the stay for garment clasps, plates 8 are riveted thereto and provided with key hole slots 9 for receiving headed studs 10 on the opposite clasp. 55

The stay described is of simple construction, can be made of very thin metal, and is as flexible as a whale-bone. On account of the disposition of the metal the bending stresses are not concentrated at a few points, thus avoiding crystallization and breakage. The wrapping of one ribbon around another spiral ribbon not only strengthens and stiffens the stay but distributes the bending movements so that the stay is practically unbreakable. 65

What I claim is:—

1. A garment stay or clasp member comprising two flat metal strips or ribbons each bent into flat spiral form, the one inclosing 70 the other.

2. A corset stay or clasp member comprising a core formed of a spirally wound flat coil of spring metal and a flat coil of spring metal ribbon wound diagonally 75 around said core.

3. A garment stay or clasp member comprising two flat metal strips or ribbons each bent into flat spiral form, the one inclosing the other and the outer strip or ribbon overlapping the spaces or joints between turns 80 of the inner strip or ribbon.

4. A corset stay or clasp member comprising a core formed of a diagonally wound flat coil of spring metal, and a flat coil of spring metal ribbon wound diagonally 85 around said core in a direction opposite to the winding of the core.

In testimony whereof, I have hereunto set my hand.

DAVID SCHULER.

Witnesses:

EDITH EDMAND,
A. R. ROBERTSON.