(No Model.)

H. W. GEER.

GARMENT STAY.

No. 471,607. Patented Mar. 29, 1892.

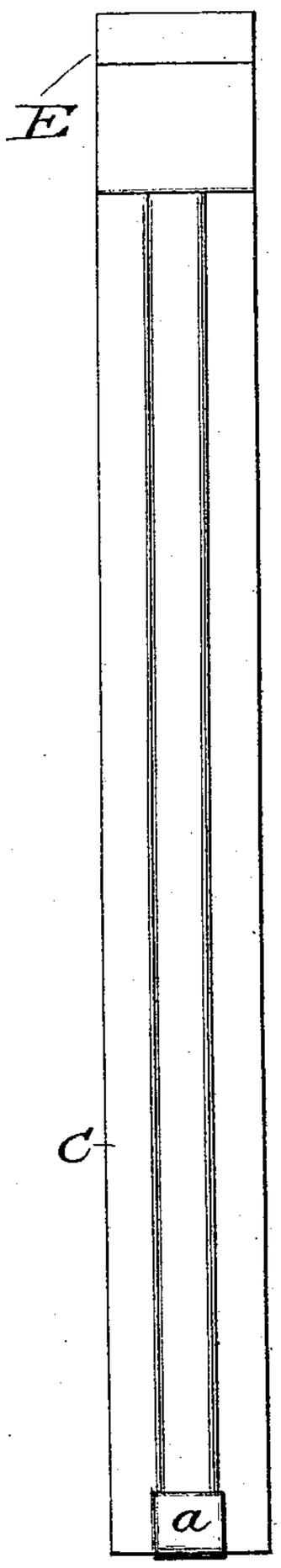

Fig. 1.

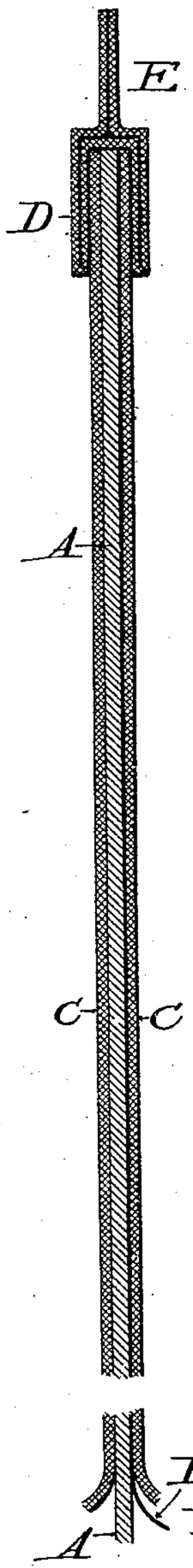

Fig. 2.

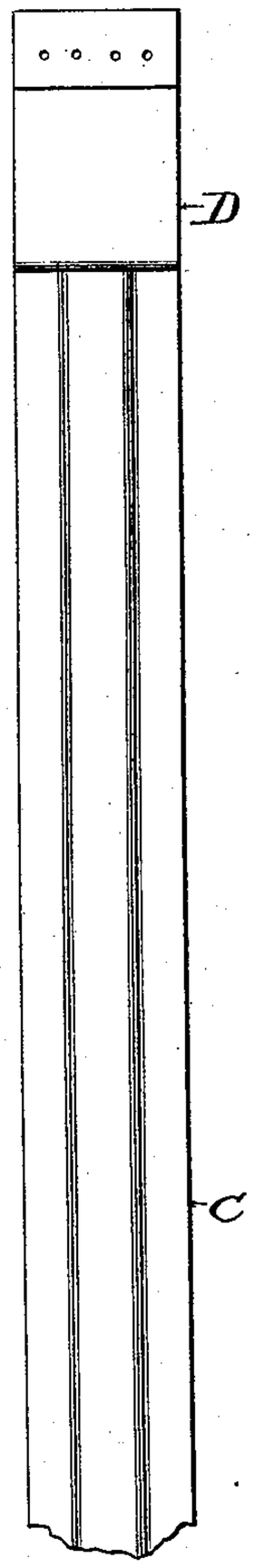

Fig. 3.

Fig. 4.

Witnesses:
Arthur Ashley
James L. Dukamel

HENRY W. GEER,
Inventor:
By R. Mason, Atty.,
by Dodger Sons,
Associate Attys.

UNITED STATES PATENT OFFICE.

HENRY W. GEER, OF YPSILANTI, MICHIGAN, ASSIGNOR OF ONE-HALF TO BENJAMIN B. MORGAN, OF SAME PLACE.

GARMENT-STAY.

SPECIFICATION forming part of Letters Patent No. 471,607, dated March 29, 1892.

Application filed June 16, 1890. Serial No. 355,674. (No model.)

To all whom it may concern:

Be it known that I, HENRY WILLIAM GEER, of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented new and useful Improvements in Stays for Garments, of which the following is a specification.

This invention relates to that class of garment-stays in which a thin elastic strip of steel, whalebone, or other suitable material is confined between exterior strips of fabric by means of gutta-percha tissue.

In the drawings, Figure 1 is an elevation of a stay; Fig. 2, a longitudinal section of the same; Fig. 3, an elevation showing the manner of constructing the caps with perforations when too thick to be pierced by a needle, and Fig. 4 a view showing a modification of the formation of the cap.

A is a steel or other equivalent elastic material, upon which is placed a strip of gutta-percha tissue B.

C C are strips of india-rubber cloth, which are applied to the tissue B, so that their woven faces will come in contact with the gutta-percha film. When thus made up, the stay is pressed between heated rolls, which cements the parts together by forcing the softened gutta-percha into the interstices of the woven faces of the strips C C, leaving the plain surface of rubber exposed on both sides.

The caps D are formed by laying a piece of gutta-percha tissue upon the ends of the stays and upon this a strip of india-rubber cloth and cementing the whole together, as is shown in Figs. 2 and 4.

In the form shown in Fig. 2 the cap-piece is turned over the end of the stay and then folded back on itself. The cementing substance having been interposed, the three thicknesses are then cemented, leaving the free end of the cap-piece to project beyond the stay, forming the extension E, through which the stay may be sewed to the garment, and if this should be too thick for conveniently passing a needle through it may be perforated and provided with eyelets, as shown in Fig. 3. These cap-pieces may be made to extend the entire width of the stay or only the width of the steel, as shown at *a*, Fig. 1.

The stays may be formed of single strips or a number of them formed in wide strips to be afterward cut into single strips.

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

1. A garment-stay consisting of a steel, two exterior strips of rubber-faced woven fabric applied to opposite sides of the steel and having their rubber faces exposed or turned outward, and a cementing layer of gutta-percha interposed between the steel and the covering-strips and compressed into the woven faces of the latter, substantially as set forth.

2. A garment-stay consisting of a steel, two covering-strips of woven fabric having rubber-coated exterior faces, a cementing layer of gutta-percha interposed between the steel and the covering-strips and serving to unite the same, and a cap consisting of an independent strip of fabric folded over the end of the steel and of the covering-strips and cemented to the latter.

In testimony whereof I have hereunto subscribed my name, in the presence of two attesting witnesses, this 7th day of June, A. D. 1890.

HENRY W. GEER.

In presence of—
R. MASON,
M. A. HOWIE.