

J. F. ATWOOD.
ELASTIC CONNECTING DEVICE.
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1,012,502.

Patented Dec. 19, 1911.

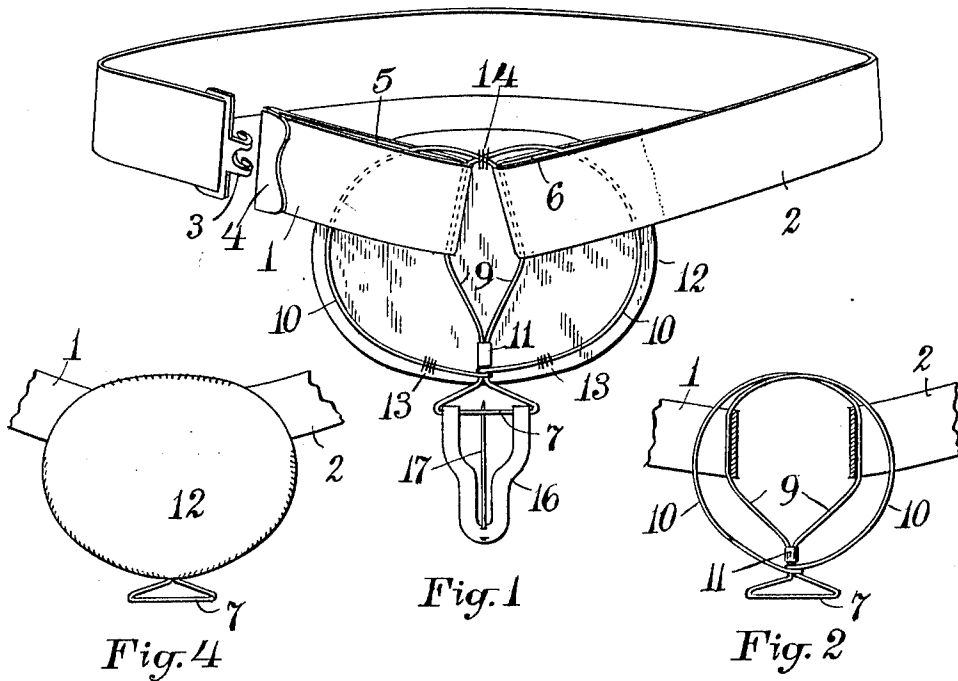
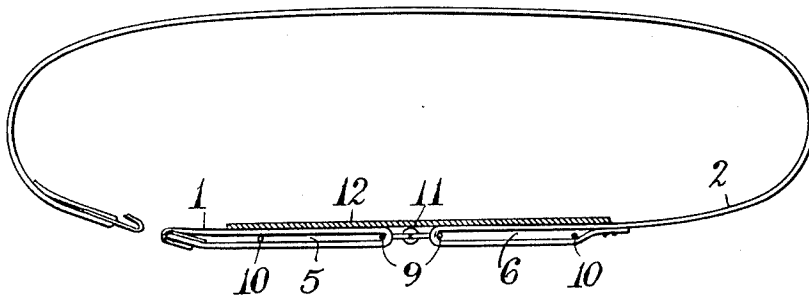


Fig. 3



Witnesses,

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UNITED STATES PATENT OFFICE.

JAMES F. ATWOOD, OF CLAREMONT, NEW HAMPSHIRE.

ELASTIC CONNECTING DEVICE.

1,012,502.

Specification of Letters Patent.

Patented Dec. 19, 1911.

Application filed June 3, 1910. Serial No. 564,748.

To all whom it may concern:

Be it known that I, JAMES F. ATWOOD, a citizen of the United States, residing at Claremont, in the county of Sullivan and State of New Hampshire, have invented certain new and useful Improvements in Elastic Connecting Devices, of which the following is a specification.

The object of this invention is the construction of improved means elastically connecting the parts composing garters, suspenders, hose-supporters and the like.

Referring to the drawings forming part of this specification, Figure 1 is a front elevation, partially in perspective, of a garter provided with the connecting device made in accordance with this invention. Fig. 2 is a sectional front elevation showing the resilient loops in a state of extreme tension. Fig. 3 is a horizontal sectional view of said garter. Fig. 4 is a face view of the device provided with a double pad.

The garter with which my invention is shown as used, is in two sections 1 and 2 provided with usual fastening devices 3, 4 for detachably uniting them. The ends opposite to said fastening devices are folded over upon themselves to form elongated loops or eyes 5, 6, the purposes of which will be explained hereinafter. The elastic connecting device consists of a single length of spring wire the mid-length 7 of which is bent into a delta or triangle the apex of which is extended into the sections 9 passing up through said eyes 5, 6. Immediately above said eyes, the two parts of the wire cross and are curved over into approximate semicircles 10, and their extremities wrapped about the sections 9 close above the said apex. A bit of sheet metal is then clasped about the lower part of said sections 9, as at 11 in Figs. 1, 2 and 3, in order to bind said sections more securely together at such point. When the garter-sections 1, 2 are now drawn apart, said sections 9 will elastically resist such tension, with a force proportional to the size and material composing the wire. If the strain upon the garter-sections is unduly increased, the wire-sections 9 will be brought into contact with the semi-circular sections 10, and, since said sections are all located in said eyes 5, 6, said sections will practically form a ring adapted to fully resist further strain on the garter-sections. See Fig. 2, which shows

substantially this condition. While this practically completes the connecting device, I prefer to provide the same with a pad, as 12, shown in Figs. 1 and 3, which is stitched to the wire at the points 13 and 14, the stitches 14 being loose enough to permit the free play through them of the wire as it yields to the strain of the garter-sections. In the case of a garter, it is preferable to locate said pad upon the side of the connecting device next to the flesh of the wearer, for the purpose of preventing any possible pinching, or unpleasant pressure or rubbing upon the skin. If desired, this pad may be located in front of the connecting device, as shown in Fig. 4; or the pad may be in two parts simultaneously inclosing both inner and outer faces of the device.

Upon the midlength or cross-bar 7 of the wire is suspended a hose-attaching means comprising a sheet metal loop 16 and vertical pin 17 having its point rising above the said bar 7. If this garter is not designed for a hose-supporter, the triangular mid-length section of the wire may be omitted.

What I claim as my invention and for which I desire Letters Patent is as follows, to wit:—

1. A resilient connecting device comprising two wire loops rigidly connected at one point and adapted to resiliently maintain themselves in an overlapped position, and tensioning members each having an elongated eye inclosing parts of said two loops, whereby said loops, when acted strongly upon by said tensioning members, will form a compound ring having said eyes pulling upon opposite parts thereof.

2. The combination of webbing having terminal elongated eyes, a single length of spring wire bent together at its midlength and then rising in nearly vertical sections passing through said eyes, and the terminal sections of said wire being each curved into a substantial semi-circle also passing through said eyes, and having the wire-ends fastened to the juncture of said nearly vertical sections.

In testimony that I claim the foregoing invention, I have hereunto set my hand this 19th day of May, 1910.

JAMES F. ATWOOD.

Witnesses:

A. B. UPHAM,
HENRY L. WHITTLESEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."