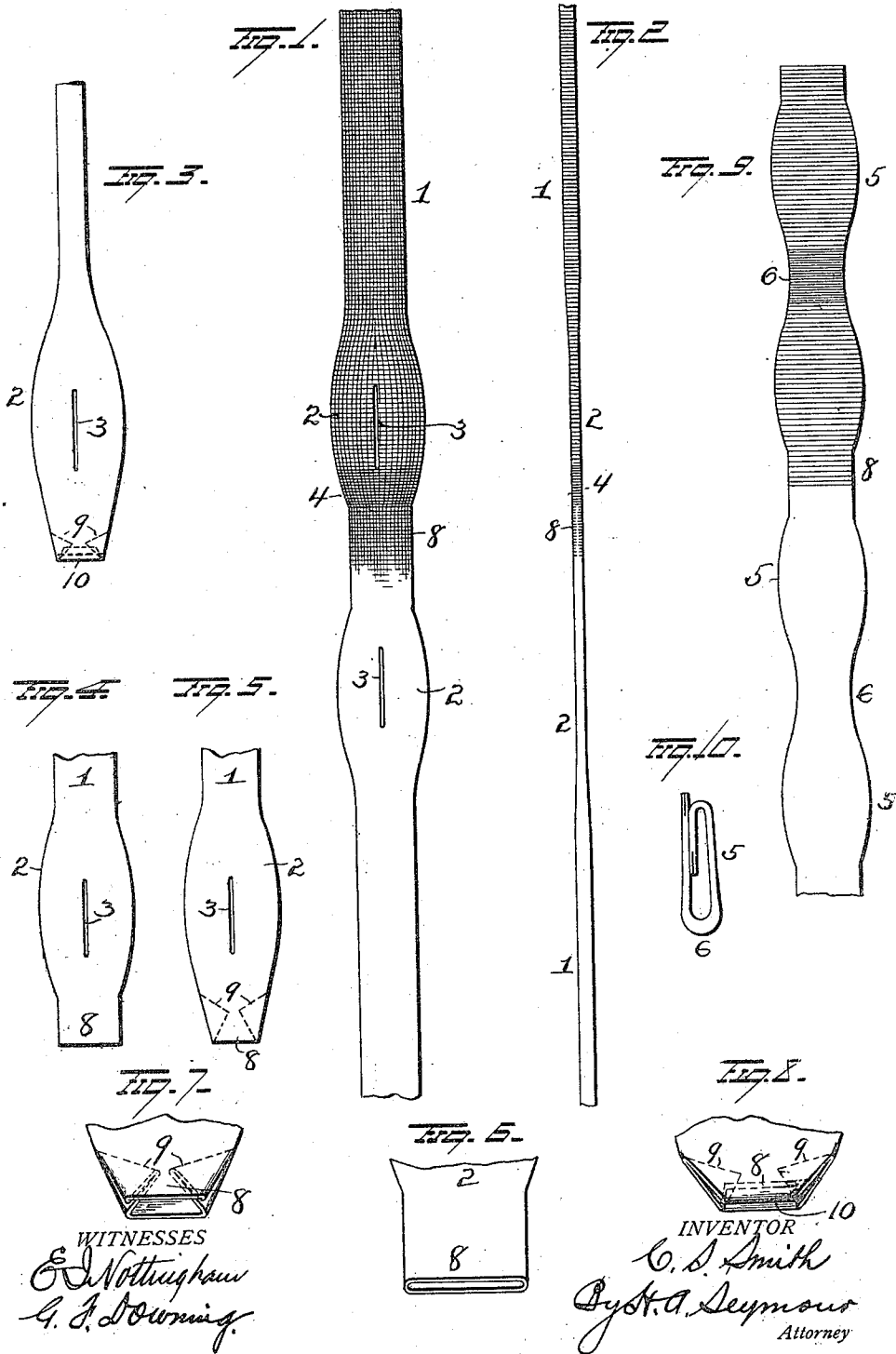


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 NARROW FABRIC FOR SUSPENDER MEMBERS.
 APPLICATION FILED JAN. 22, 1910

1,013,692.

Patented Jan. 2, 1912.



UNITED STATES PATENT OFFICE.

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NARROW FABRIC FOR SUSPENDER MEMBERS.

1,013,692.

Specification of Letters Patent.

Patented Jan. 2, 1912.

Application filed January 22, 1910. Serial No. 539,551.

To all whom it may concern:

Be it known that I, CHARLES S. SMITH, of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Narrow Fabric for Suspender Members; and I do hereby declare the following to be 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.

This invention relates to an improved narrow fabric, and more particularly to a woven strap adaptable for use in the manufacture of suspenders,—the object of the invention being to so construct a woven strap member that it shall possess adequate strength and durability; so that it shall be neat in appearance, and so that all protuberances on the surface of the fabric member shall be avoided.

With this object in view, the invention consists in certain novel features of construction as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is a face view illustrating the manner of weaving a connected series of suspender ends, said view showing portions of two suspender ends; Fig. 2 is an edge view of the same; Fig. 3 is a view showing a portion of a finished suspender end; Figs. 4, 5, 6, 7 and 8 are views illustrating the process of finishing the tubular extremities of the suspender members; Fig. 9 is a face view showing a connected series of cast-offs, and Fig. 10 is a view of a single cast-off.

In weaving a suspender member, I employ a reed of the fan type whereby I am enabled to so weave the member or strap that the same may be given different widths in different parts. Thus, in weaving a suspender end, I may weave the body portion 1 of a given width and the ends 2 in which the button holes 3 are woven, of a greater width, or I may weave a wide body portion and narrower ends. Again, in order to reinforce those portions below the button holes, the fabric of the strap will be woven with an increased amount of filling.

In weaving the body portion 1 of the suspender end, the warp threads are contracted, making the fabric narrower and thicker in the body portion of the article than at the ends, as illustrated in Figs. 1 and 2. In like manner, the intermediate portion of

the cast off 5 will be reinforced by making this portion of the fabric narrower and thicker than the end portions, as indicated at 6 Figs. 9 and 10. By thus weaving the portions 1 and 6 of the articles as above described, the wearing qualities of these parts is greatly enhanced.

After weaving a solid strap to form a suspender end or a cast-off in the manner above explained, I weave a tubular portion 8, and then proceed with the weaving to form another solid strap member. After having woven a connected series of strap or fabric members as above explained, the same will be severed transversely through the center of the woven tubular portions 8. The free edges of each tubular end will then be turned into the tube; first, as shown at 9 Fig. 7, and then as shown at 10 Fig. 8 and finally secured by stitching as shown in Fig. 3, thus giving to the strap or member a secure, finished end which is not liable to fray and also precludes the presence of any protuberances on the faces of the strap or member.

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

1. A suspender member comprising a strip of woven fabric having a solid body portion and having portions woven thicker and narrower than other portions, said strip provided at both of its ends with integral tubular woven portions, the free edges of said tubular end portions being turned into the same, and stitching securing said turned-in edges.

2. A suspender member comprising a woven strip having its intermediate portion woven narrower and thicker than its end portions, said end portions having tubular extremities with the edges thereof turned in and secured, and the remaining portions of the member woven solid.

3. A strip of woven fabric constituting a suspender member woven solid throughout the major portion of its length and composed of threads having sufficient strength and stability to adapt said strip for use as a suspender member, said strip having its intermediate portion woven narrower and thicker than its end portions, and the said end portions having tubular extremities with the edges thereof turned in and secured.

4. A strip of fabric constituting a suspender member, the end portions of which

are woven wider and thinner than the intermediate portions, said strip woven solid throughout the major portion of its length, said wider portions having slots forming
5 button holes and said wider portions having increased amounts of filling adjacent to said button holes.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

CHARLES S. SMITH.

Witnesses:

HENRY W. GARDNER,
CHARLES R. HASLAM.