

J. HOLTZMANN.
SUSPENDERS.
APPLICATION FILED OCT. 5, 1912.

1,049,584.

Patented Jan. 7, 1913.

Fig. 1.

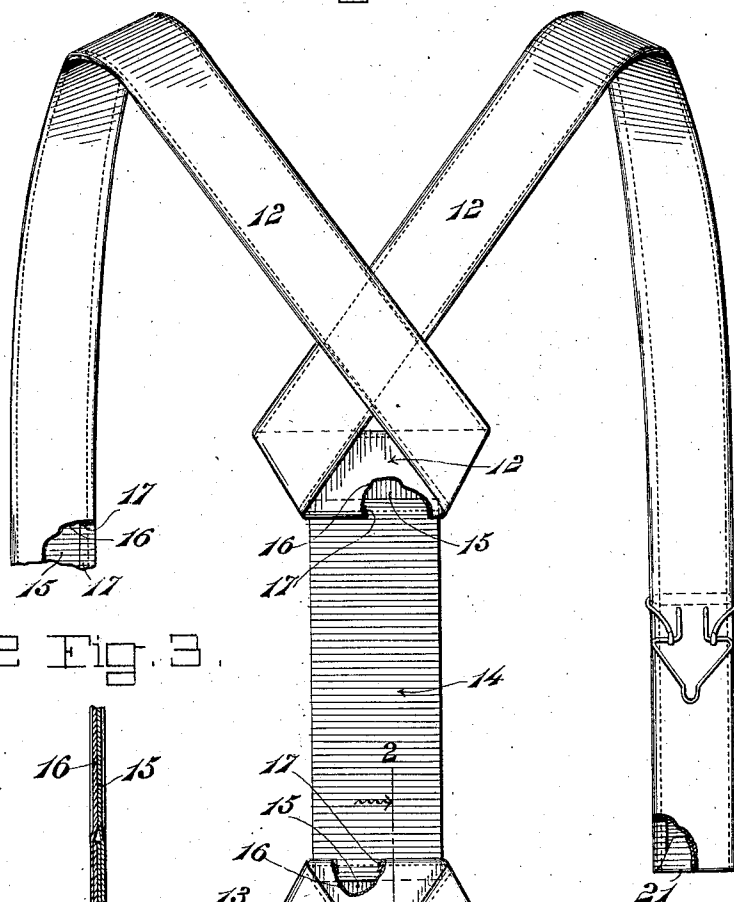
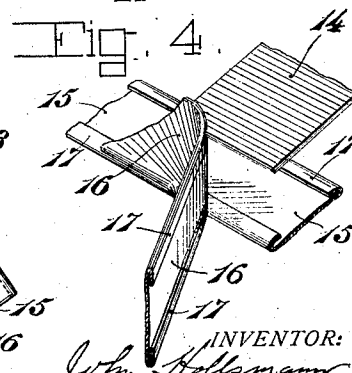
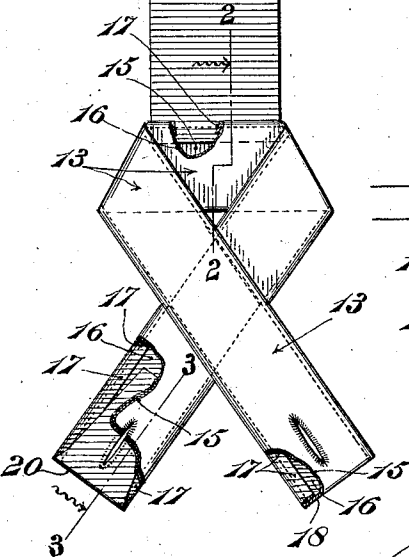
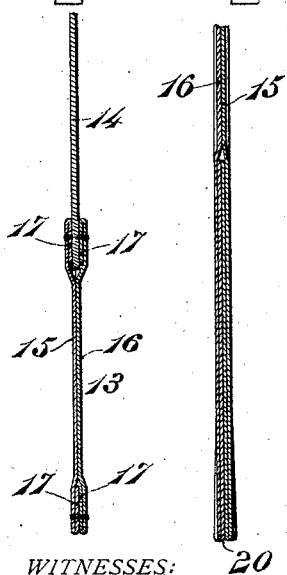


Fig. 2 Fig. 3.



WITNESSES:

Harry King
C. H. Sweeney

INVENTOR:

John Holtzmann
by Ralph K. R. R.
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN HOLTZMANN, OF BALTIMORE, MARYLAND.

SUSPENDERS.

1,049,584.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed October 5, 1912. Serial No. 724,160.

To all whom it may concern:

Be it known that I, JOHN HOLTZMANN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented or discovered certain new and useful Improvements in Suspenders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to suspenders and has for its object to provide convenient suspenders of great strength which may be produced at comparatively little cost, and which are more particularly intended for use with men's overalls and the like.

15 In carrying the invention into effect the shoulder straps and the rear suspender ends are, in each instance, formed of two superposed plies of woven material, preferably stout denim or similar material, each of said plies having its outer edges turned in and stitched down so that the sewed two-ply strip, from which the straps are to be formed, will have finished edges; the edges of the upper ply of the strip being turned in downwardly, and the edges of the lower ply of the strip being turned in upwardly, these inturned edges being contiguously superposed in the finished strip. The rear and shoulder strap portions of the suspenders are connected by a strip of webbing which is preferably introduced between middle portions of the two plies of each of said straps before the said plies are stitched together. Each of said strap portions of the suspender will thus comprise a portion which in its attached condition lies parallel to the connecting webbing strip, and the outer portions of each of said straps will then be folded over onto each other in a crossed direction, and then stitched down to permanently secure them together. The folding of the strips of fabric with inturned edges will preferably be effected by means of the improved sewing machine folder fully shown and described in my application Serial No. 714,429, filed August 10, 1912.

20 In the accompanying drawings Figure 1 illustrates the improved suspenders. Fig. 2 is a detail section on line 2—2 of Fig. 1, showing the manner in which the connecting strip is attached to each of the strap portions of the suspenders. Fig. 3 is a detail section on line 3—3, Fig. 1. Fig. 4 is

a detail perspective view to show the insertion of the connecting strip between the plies of a strap part of the suspenders.

Referring to the drawings, 12 denotes the two-ply member constituting the shoulder straps of the suspenders, 13 the two-ply member constituting the rear strap portion of the suspenders, and 14 the strip of webbing connecting the shoulder straps and the rear straps. The shoulder straps and the rear straps are each formed from a strip of woven fabric consisting of two plies 15 and 16 having inturned edges 17, the edges of the upper ply being turned inward downwardly and the edges of the upper ply being turned inward upwardly so that when the said plies are stitched together the cut edges of the material will be within the bodies of the straps and the edges of the latter will present a finished appearance. The ends of the connecting strip 14 are preferably introduced between the two plies of each of the strap portions of the suspenders before the said plies are stitched together, as will be understood from Fig. 4, so that the cut ends of the strip will be within the bodies of the straps, and the connected portions of these parts will thus present a finished appearance. The two-ply strip comprising each of the strap portions of the suspenders is attached to the connecting strip 14 near the middle of each of said two-ply strips, and in such a manner as to extend transversely of said connecting strip, and the parts of each of said straps outside of the points of attachment to the said connecting strip are folded in one onto the other in such a manner as to have crossing portions which are stitched together at their crossing parts, so as to maintain them in crossed position.

In forming a two-ply folded strip which is to constitute a strap portion of the suspender, by the use of the folding attachment shown and described in my application above referred to, one end of the said folded strip has an end 18 of the back strap or an end of the shoulder strap which will be finished, owing to the fact that the strip has been doubled upon itself, and the other end portions of said straps, as an end portion of a back strap and an end portion of a shoulder strap, may be finished by turning in the ends of the plies at these points before stitching down the ends of the two-ply

strip; and if it be desired to provide reinforced parts in which buttonholes may be formed the buttonhole ends may be turned in to a distance sufficient to provide reinforced parts of the length of the buttonholes, as denoted in Fig. 3, but for the turned-in end portions, 21, of the shoulder straps, which are to be used in connection with a buckle, only short turned-in portions will be necessary.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. Suspenders comprising shoulder straps and rear straps and a connecting strip of webbing, each of the strap portions of said suspenders consisting of a single two-ply strip of material with stitched-down inturned edges, said strap portions being stitched to said connecting strip at or near the middle parts of said strap portions, and the two outwardly extending parts of each of said strap portions being crossed one

upon the other and stitched down in crossed positions.

2. Suspenders comprising shoulder straps and rear straps and a connecting strip of webbing, each of the strap portions of said suspenders consisting of a single two-ply strip of material with stitched-down inturned edges, said strap portions being stitched to said connecting strip at or near the middle parts of said strap portions, and the two outwardly extending parts of each of said strap portions being crossed one upon the other and stitched down in crossed positions, the said connecting strip being attached to said strap portions by being stitched in between the inturned edges of the two plies of the said strap portions.

In testimony whereof I affix my signature, in presence of two witnesses.

JOHN HOLTZMANN.

Witnesses:

LOUIS A. HAZARD,
ROLAND H. HURST.

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