C. M. WALKER.

GARMENT.

APPLICATION FILED JUNE 7, 1920.

1,364,663. Patented Jan. 4, 1921.

Fig. I.

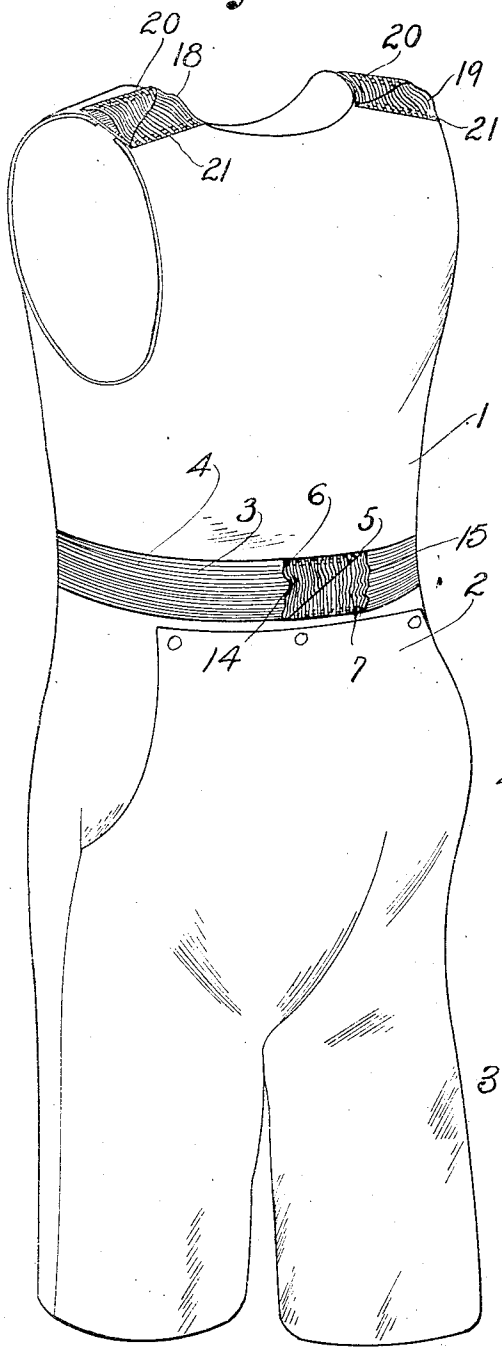


Fig. II.

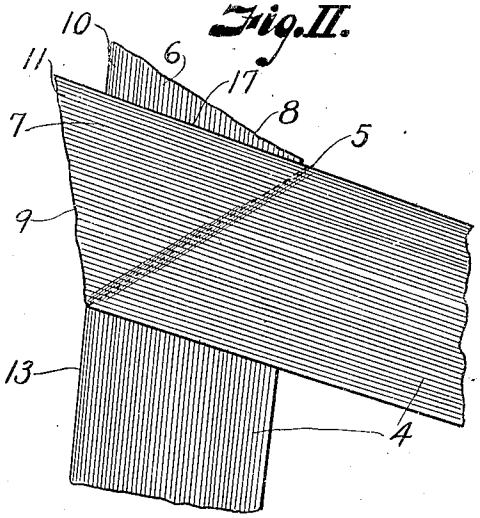


Fig. III.

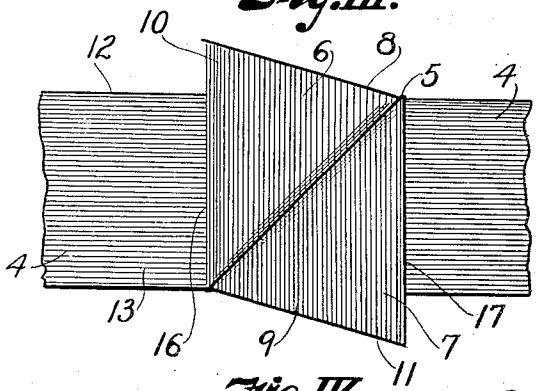
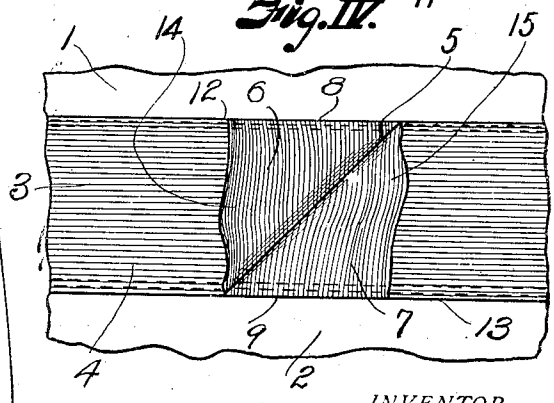


Fig. IV.



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GARMENT.

1,364,663. Specification of Letters Patent. Patented Jan. 4, 1921.

Application filed June 7, 1920. Serial No. 386,993.

To all whom it may concern:

Be it known that I, CYRUS M. WALKER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Garments; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to garments and particularly to means for reinforcing portions of garments which are subjected to the greatest strain during wear.

Ordinarily, the greatest strain on garments of the union type comes at the shoulders and at the waist band. This is generally recognized and to provide for such conditions it has heretofore been customary to insert elastics at the shoulders and to provide an elastic waist band for connecting the upper and lower members as, for example, the shirt to the drawers. The waist band not infrequently consists of a knitted fabric having the wales running longitudinally of the band or around the waist in order to provide for the maximum elasticity between the two main sections of the garment. The greatest strength of the knitted band is in the direction of the wales while the greatest elasticity is transverse of the wales.

I have provided an insert by means of which advantage may be taken of the elasticity of the knitted material to provide the necessary stretch and whereby advantage may also be taken of the strength of the material to resist tearing when the insert is subjected to strain.

I have illustrated the insert as applied to a conventional type of union garment as illustrated in the accompanying drawings, in which—

Figure I is a perspective view of a garment constructed in accordance with my invention.

Fig. II is a detail view of an insert showing the ends stitched together whereby the wales may be turned transversely of the goods to add strength.

Fig. III is a detail view of the adjacent ends showing the position of the same before the edges are stitched, and

Fig. IV is a detail view showing the reinforcing portion of the insert stitched to the main portion thereof.

Referring now to the drawings by numerals of reference:

1 designates the shirt and 2 the drawers fastened to the shirt by an insert or band 3 of knitted material with the wales 4 running longitudinally of the insert fabric. The meeting edges of the insert are connected by a diagonal seam 5 provided by a suitable line of stitching to provide overlapping portions or extensions 6 and 7. The overlapping portions 6 and 7 are preferably cut on bias lines, as indicated at 8 and 9, to provide acute angular ends 10 and 11 so that when the edges 8 and 9 are fastened to the upper and lower edges 12 and 13 respectively of the band 3, a fullness will be provided, as indicated at 14 and 15 in Fig. IV. This is because the angles at which the edges 8 and 9 are cut provides transverse edges 16 and 17 of greater length than the width of the main portion of the band 3.

By turning the ends as shown in the drawings the wales 4 in the portions 6 and 7 will be disposed at right angles to the wales in the main portion of the band or insert and since the bent-over and reinforced portion of the band is positioned at the waist band of the garment to locate adjacent to the spine of the wearer, it will be apparent that the reinforcement will be at the point at which the band 3 is subjected to the greatest strain.

When the wearer bends, the normal elasticity of the band will not be impaired on account of the overlapping portions 6 and 7 because there will be sufficient fullness to allow normal expansion before the overlapping ends are subjected to strain. If the band is stretched to nearly its elastic limit, that is, the limit of stretch, the fullness will be taken out of the ends 6 and 7 and the strain will then come longitudinally of the wales in the overlapping portions so that further stretching or tearing of the band will be resisted.

It will be apparent that the band will be efficiently reinforced at the point of the greatest strain and that means for offering resistance may be efficiently and cheaply

provided because advantage is taken of the known strength of the wales in the band.

In addition to the band insert I may provide inserts in the shoulders, these inserts being designated 18 and 19 and they are constructed in substantially the same way as the band except that they do not run entirely around the garment. It will be apparent, however, by reference to Fig. I that the wales 4 run crosswise of the garment for the major portion and that the overlapping ends 20 and 21 run longitudinally of the garment or at right angles to the wales in the main portion of the inserts 18 and 19.

If the garment 1 is constructed with a front vent, the band will be made of two pieces, but if not, it may consist of a single piece joined by the stitches 5 with the overlapping portions as shown.

What I claim and desire to secure by Letters-Patent is:

1. A reinforcing insert for garments consisting of an elastic knitted fabric having the wales running longitudinally of the main body of the insert, said insert being provided with ends lapping over at right angles to the main body of the insert, so that the wales run crosswise of the insert, the edges of the lapped over ends being stitched to the edges of the main body of the insert.

2. A reinforcing insert for garments consisting of an elastic knitted fabric having the wales running longitudinally of the main body of the insert, said insert being provided with ends lapping over at right angles to the main body of the insert, so that the wales run crosswise of the insert, the edges of the lapped over ends being stitched to the edges of the main body of the insert, the lengths of the overlapping ends being greater than the width of the main body of the insert, to provide a fullness to allow the main body of the insert to stretch transversely before subjecting the overlapping ends to tensional strain.

3. A reinforcing insert for garments consisting of a knitted elastic fabric, the wales of which run longitudinally of the main body of the insert, diagonal ends of the insert being connected by a diagonal line of stitching to provide overlapping portions folded at right angles to the main body of the insert, the extremities of the overlapping portions being cut on bias lines to provide acute angular portions, the outer edges of said overlapping portions being stitched to the upper and lower edges of the main body of the insert.

4. A garment having upper and lower members, an insert consisting of a band of transversely elastic knitted fabric, having ends folded over on diagonal lines, so that the wales in the folded ends run transversely to the main body of the band, and means for fastening the band to the upper and lower member of the garment.

5. A garment having upper and lower members, an insert consisting of a band of transversely elastic, knitted fabric, the band connecting the upper and lower members, and a stretch-limiting ply extending across the band and having diagonal edges, the diagonal edges being fastened to the upper and lower members so that a fullness is provided between the upper and lower members, the wales of the stretch-limiting ply running at right angles to the wales of the band.

6. A stretch-limiting ply for garments consisting of a strip having diagonal edges, the edges of the strip being secured to the garment by parallel rows of stitching whereby a fullness is provided between the rows of stitching.

In testimony whereof I affix my signature.

CYRUS M. WALKER.