

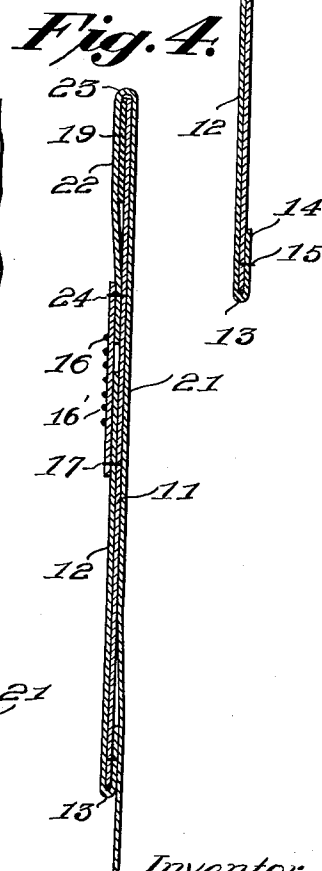
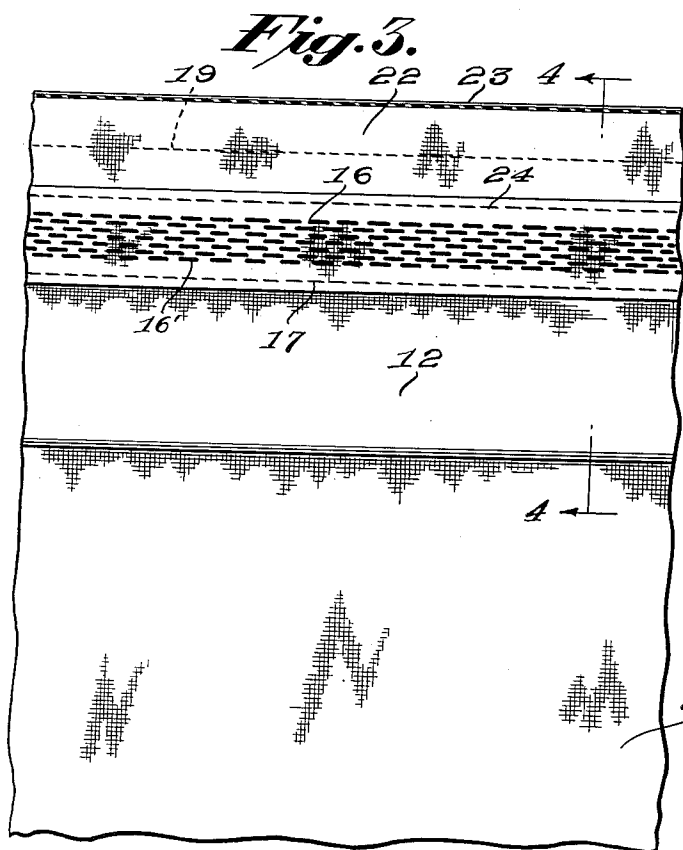
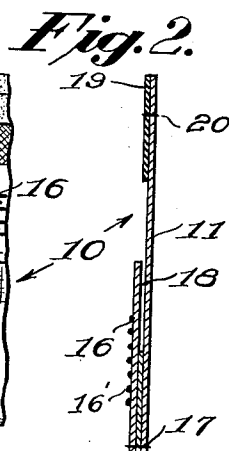
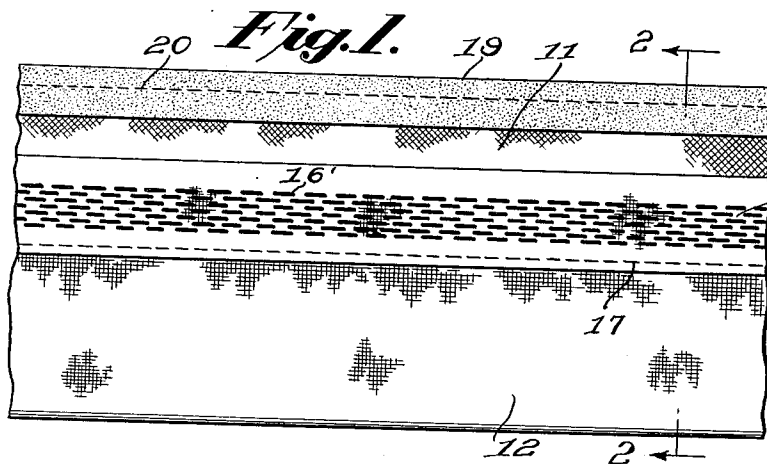
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WAISTBAND CONSTRUCTION

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WAISTBAND CONSTRUCTION

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3 Claims. (Cl. 2-236)

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This invention relates to a waist band.

The invention is more particularly concerned with an improved waist band structure for use with trousers or skirts and embodies certain novel features as will be hereinafter pointed out.

It has heretofore been the general practice to apply waist bands to trousers in such manner that the upper edge of the waist band was substantially at the top of the trousers. In other words, in the application of the waist bands, the trouser material was turned in a very short distance and the upper edge of the waist band was in most instances stitched thereto.

In the more recent styling in trouser manufacture, the trouser material is turned in a substantial distance with the object in view of eliminating the heretofore present visible stitch within the trousers and close to the top thereof.

Notwithstanding the fact that the trouser material is turned in for a substantial distance, it is essential that the waist band extend to the top of the trousers in order to render same sufficiently firm to prevent rolling thereof in use.

Such waist band structure has, however, presented a problem relative to the securement thereof to the trousers material without the use of the heretofore used objectionable visible seam edge to the top of the trousers.

It is accordingly a primary object of the invention to provide a waist band structure for application to trousers whereby the lower edge of a relatively wide inwardly folded waist portion of the trousers may be concealed and secured to the waist band and wherein the waist band further extends to the top of the trousers with the upper edge thereof disposed within the fold and secured thereto by invisible means.

A further and more specific object of the invention is to provide an improved waist band structure including a relatively heavy canvas stiffening strip, whose upper edge is adapted to be disposed within the fold of a relatively wide inturned waist portion of a garment and which upper edge is provided with a heat sealing tape, and the waist band further including means for concealing and securing the free edge of the inturned portion thereto.

Other objects and advantages of the invention will become apparent in the course of the following detailed description, taken in connection with the accompanying drawing, wherein—

Figure 1 is an inside elevational view of a portion of a strip of waist band material constructed in accordance with a preferred embodiment of the invention and being illustrated as of actual dimensions for use with trousers or skirts.

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Figure 2 is a substantially enlarged transverse sectional view of the waist band as observed in the plane of line 2-2 on Figure 1.

Figure 3 is a view corresponding to Figure 1 but showing the improved waist band applied to a trousers which is illustrated fragmentally only.

Figure 4 is a substantially enlarged transverse sectional view as observed in the plane of line 4-4 on Figure 3.

Referring now in detail to the drawing, 10 designates the improved waist band in its entirety and while only a fragmental portion of the waist band is shown, same will in practice be manufactured in long strips and carried on rolls for use.

The waist band 10 comprises a relatively wide canvas strip 11 to the lower inner wall of which is applied a suitable fabric 12 whose lower edge is turned over the lower edge of the canvas strip as indicated at 13 and the outer relatively narrow folded over portion 14, only, is stitched to the lower edge of the canvas strip as indicated at 15.

An intermediate fabric strip 16 of substantial width has its lower portion supported on the upper portion of the fabric 12 and secured thereto as well as the canvas strip by stitching 17.

The strip 16 has the upper portion thereof normally free of the canvas strip and provides a gap 18 for a purpose to later appear.

A heat actuatable thermoplastic coated tape 19 is secured to the inner face of the upper edge portion of the canvas strip by stitching 20.

The above described novel waist band structure provides for ready application thereof to the waist portion of a trousers or skirt with a relatively wide facing of trousers or skirt material on the inside of the waist portion at the top thereof and with the canvas strip 11 extending to the top of said waist portion and secured thereto without the presently used visible line of stitching.

As will be noted from Figures 3 and 4, the waist band is applied by originally placing same on the back of the trouser material 21 and disposing the free edge of the later folded trousers portion 22 within the gap 18; with the materials thus disposed a line of stitching 24 is inserted through the strip 16, the trousers portion 22 and the canvas strip 11 which may be readily accomplished by a sewing machine since the materials in this position are laid flat.

The stitch 24 is indicated as of the straight away form but may be of the zig-zag form if desired in order to more effectively bind the edge of strip 16 to the trousers material.

In the second step of waist band assembly,

the trousers material 21 is folded at 23 around the aligned edges of the canvas strip 11 and the tape 19 whereby the latter are concealed within the trousers material while the stiffening canvas strip 11 still extends to the top of the trousers waist portion.

The third step in the waist band assembly is to subject the waist portion of the trousers to the action of a well known form of pressing device wherein the thermo-plastic material on the tape 19 is melted and fused to the trousers material. With the improved waist band thus applied same is effectively united to the trousers material 21 at the upper edge of the waist portion in the absence of the objectionable visible stitching and a relatively wide zone of trousers material is disposed between the waist band strip 16 and the upper edge of the waist portion of the trousers. Furthermore, the lower edge of the inner folded over trousers portion is concealed by the strip 16 and is stitched thereto by a line of stitching which may be of plain or ornamental form.

It is to be particularly observed that it is essential that the waist band and trousers material be connected at the edge of the trousers waist portion and with the upper edge of the waist band disposed within the trousers material fold as disclosed. A connection by stitching would need be effected by a line of stitching extending through the canvas strip 11, the tape 19 and both plies of trousers material or by a felling operation from underneath the said plies of trousers material. The through stitching is objectionable since the exposed stitching is unsightly and the felling operation is too costly.

By the use of the heat sealable thermo-plastic tape 19 and connection is effected without undue expense of operation and a visible line of stitching is avoided.

The improved heat sealable connection effectively retains the waist band in place at the extreme top of the trousers and also acts to prevent the canvas strip 11 from rolling under inside the top of the trousers.

Furthermore, the tape will retain a flat waist edge and keep same from puffing.

The strip 16 is preferably provided with friction means 16' for retaining a shirt tail within the trousers. Furthermore, the waist band structure generally may be of forms different from that disclosed without departure from the invention which resides particularly in the provision of the heat sealing tape 19 at the upper edge of the waist band material.

Instead of employing separate fabric strips 12 and 16, applicant may combine these two strips into a single facing, functioning in the same manner as strips 12 and 16, as heretofore outlined.

While I have disclosed my invention in accordance with a single specific structural embodiment thereof, such is to be considered as illustrative only, and not restrictive, the scope of the invention being defined in the subjoined claims.

What I claim and desire to secure by U. S. Letters Patent is:

1. A waist band comprising a relatively wide fabric stiffening strip, a relatively narrow fabric single ply strip disposed upon the first mentioned strip intermediate the longitudinal upper and lower edges thereof, said narrow strip hav-

ing its lower longitudinal edge secured to the inner face of stiffening strip, the upper longitudinal edge of the narrow strip being initially free of the first mentioned strip and spaced considerably below the upper longitudinal edge of the first mentioned strip and provided therewith a gap, and a heat sealable thermo-plastic coated stiffening tape disposed in contact with the inner face of the first mentioned strip and secured thereto adjacent the upper longitudinal edge of the wide stiffening strip, the lower longitudinal edge of the tape being spaced upwardly from the upper longitudinal edge of the said narrow strip, said waist band being adapted for connection to the waist portion of a pair of trousers, wherein the trousers material is provided with a relatively wide inwardly directed fold, the lower edge of the fold being disposable within said gap for connection to said strips, and the upper edge of the waist band being disposable within the crotch of the fold with the tape wholly concealed therein for connection to the inner face of the inwardly directed fold upon the application externally of heat and pressure thereto.

2. A waist band according to claim 1, together with a third fabric strip having its upper longitudinal edge disposed between the lower portion of the second fabric strip and the adjacent portion of the first mentioned strip and secured thereto, and having its lower longitudinal edge portion folded over the lower longitudinal edge of the first strip and secured to the front face thereof.

3. A waist band comprising a relatively wide fabric stiffening strip, a relatively narrow heat sealable thermo-plastic coated stiffening tape disposed in contact with the inner face of the upper longitudinal edge portion of the fabric strip and secured thereto, a facing attached to the inner face of the stiffening strip and having its upper longitudinal edge portion free with respect to the stiffening strip to provide a gap between the facing and said strip, the upper longitudinal edge of the facing being spaced considerably below the upper longitudinal edge of the stiffening strip and also below the lower longitudinal edge of the tape, said waist band being adapted for connection to the waist portion of a pair of trousers, wherein the trouser material is provided with a relatively wide inwardly directed fold, the lower edge of the fold being disposable within said gap for connection to the strip and facing, the upper edge portion of the waist band being disposable within the crotch of the fold with the tape wholly concealed therein for connection to the inner face of the inwardly directed fold upon the external application of heat and pressure thereto.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
1,434,973	Tucker	Nov. 7, 1922
1,928,838	Marcus	Oct. 3, 1933
2,630,575	Feinberg	Mar. 10, 1953
2,650,367	Stein	Sept. 1, 1953
2,667,643	Elman	Feb. 2, 1954

FOREIGN PATENTS

Number	Country	Date
673,548	Great Britain	June 11, 1952