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J. D. HUIZENG

2,035,480

TEXTILE MATERIAL

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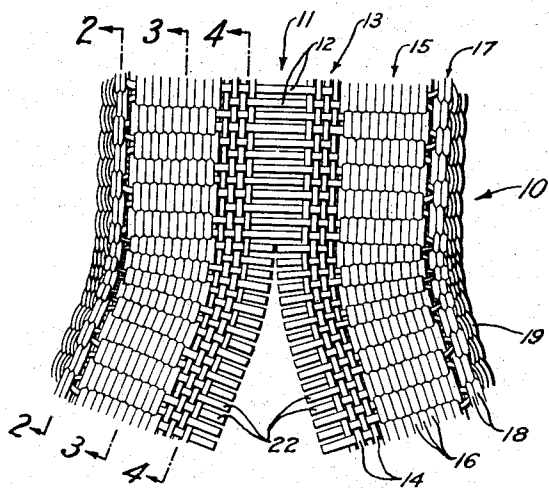


Fig. 1

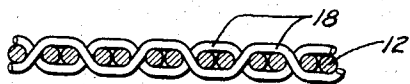


Fig. 2.

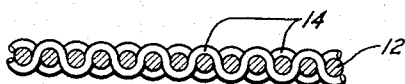


Fig. 4.

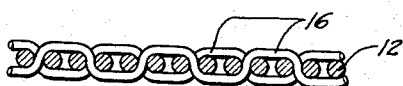


Fig. 3.

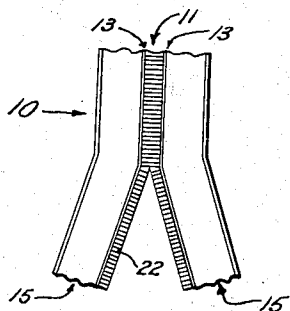


Fig. 5.

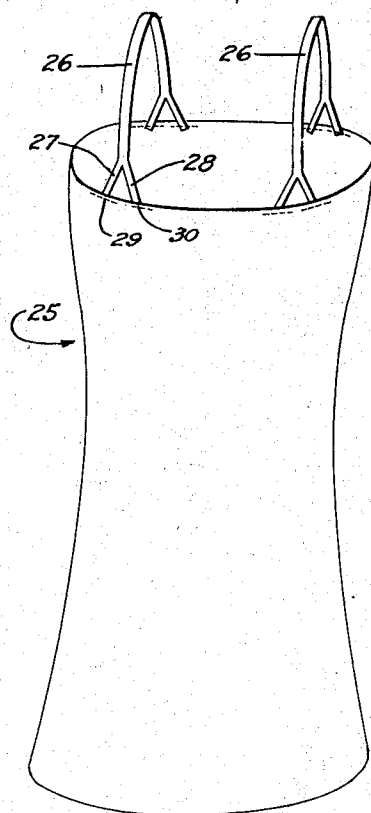


Fig. 6.

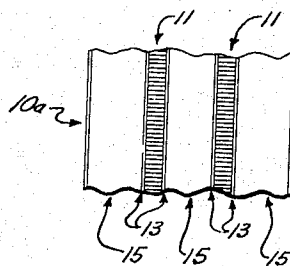


Fig. 7.

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2,035,480

TEXTILE MATERIAL

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Application September 15, 1933, Serial No. 689,508

2 Claims. (Cl. 139—383)

This invention relates to textile material. It is particularly directed to elongated strips of woven ribbon or tape.

An object of this invention is to provide a strip of ribbon of the character described which may be slit longitudinally or cut into two separate strips, and being so woven and constructed that the slit or cut edges will not unravel.

A further object of this invention is to provide a novel shoulder strap for a lady's undergarment or the like wearing apparel, made of a piece of my improved ribbon having the ends thereof slit and separated and said separated ends attached to the undergarment for more effectively supporting the same and to aid in retaining the shoulder straps on the shoulders of the wearer.

A still further object of this invention is to provide a simple and strong ribbon of the character described which may be economically manufactured and have a large variety of uses; which shall be easy to slit partially or cut into a plurality of ribbons without unravelling of the cut edges, and which shall nevertheless be practical and efficient to a high degree.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible embodiments of this invention,

Fig. 1 is a top diagrammatic view of a piece of ribbon embodying the invention, with a part thereof slit and somewhat separated;

Fig. 2 is a diagrammatic cross-sectional view taken on line 2—2 of Fig. 1;

Fig. 3 is a diagrammatic cross-sectional view taken on line 3—3 of Fig. 1;

Fig. 4 is a diagrammatic cross-sectional view taken on line 4—4 of Fig. 1;

Fig. 5 is a top plan view of a piece of my improved ribbon, partially slit;

Fig. 6 is a perspective view of a lady's garment provided with shoulder straps embodying the invention; and

Fig. 7 is a top view of a piece of my improved ribbon and illustrating a modified construction.

Referring now in detail to the drawing, 10 designates a strip or web of ribbon or tape embodying the invention. The strip 10 is made of woven material and comprises a central longitudinal empty dent portion 11 having only weft or filler threads 12. Said empty dent portion is coextensive with the length of the ribbon. Disposed on opposite sides of the empty dent portion 11 are portions 13 comprising a plurality of longitudinal binder warp threads 14 woven with the filler threads 12. The binder threads are preferably woven around single filler threads. Disposed on the outer sides of the portions 13 are portions 15 comprising a plurality of warp threads 16 woven with said filler threads 12. Said warp threads 16 may be woven about pairs of filler threads as shown in the drawing. Disposed on the outer sides of the portions 15 are portions 17 comprising warp binder or selvage threads 18 woven about said filler threads 12. The threads 18 may likewise be woven about pairs of filler threads 12, preferably differently paired than the pairs of filler threads about which the warp threads 16 are woven. The filler threads 12 are looped at the ends and said looped ends are covered by warp threads 19 to form outer edges for the strip of ribbon 10. For this purpose said warp threads 19 are preferably woven about the two threads of one loop and the adjacent thread of the next loop, although instead any other suitable weave known in the art may be utilized.

The ribbon 10 may be slit, as shown in Fig. 1 of the drawing, by cutting through the empty dent portion 11 and providing severed filler thread ends 22. Unravelling of the cut edges is prevented by the portion 13 containing the binder threads 14. The ribbon 11 may thus be either slit partially or severed into two separate ribbons, each of which may be used as a tape or ribbon for any suitable purpose.

In Fig. 6 of the drawing there is shown a lady's garment 25 such as a slip or chemise, having shoulder straps 26. The shoulder straps 26 may be made of strips or ribbons 10 having the ends thereof slit along the empty dent portions 11, and separated to form ribbon portions 27 and 28 at the ends of each shoulder strap. The spaced ends of portions 27 and 28 may be stitched as at 29 and 30, to the upper edge of the garment 25. The slit edges of the shoulder straps will not unravel; and said straps will be maintained in a more upright position to aid in retaining the same on the shoulders of the wearer.

Although my improved ribbon 10 is shown for the purpose of illustration only, in Fig. 6 of the drawing as used for a shoulder strap of an undergarment, it will be understood that the same may be used for any suitable purpose, it being a

dominant feature of the invention to provide a strong ribbon, having a large range of uses, and adapted to be severed into a plurality of ribbons or partially slit without the danger of unravelling of the cut edges.

In Fig. 7 there is shown a ribbon 10a having a plurality of spaced empty dent portions 11, on the opposite sides of each of which there are woven the portions 13 having the binder threads 14 and the portions 15 having the woven warp threads 16. The ribbon 10a may thus be severed into three separate strips or partially slit along the empty dent portions 11 without danger of unravelling of any of the cut edges of the ribbon. The empty dent portion 11 further may be easily seen on the strip and serves as a guide for cutting or slitting the ribbon in a straight line.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

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

1. A strip of ribbon comprising a longitudinal intermediate empty dent portion containing only filler threads, portions on opposite sides of said empty dent portion containing binder threads woven about said filler threads singly, portions on the outer sides of said last-mentioned portions containing warp threads woven about pairs of said filler threads, and portions on the outer sides of said warp threads comprising binder threads woven about different pairs of filler threads.

2. A strip of ribbon comprising a longitudinal intermediate empty dent portion containing only filler threads, portions on opposite sides of said empty dent portions containing binder threads woven about said filler threads singly, portions on the outer sides of said last-mentioned portions containing warp threads woven about pairs of said filler threads, and portions on the outer sides of said warp threads comprising binder threads woven about different pairs of said filler threads, said filler threads being looped at the edges of the ribbon, and said ribbon further comprising warp threads woven about the looped portions of said filler threads to form the edges of the ribbon.

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