Oct. 1, 1946. L. U. MICHAEL 2,408,570

TURN-DOWN SHIRT COLLAR

Filed Oct. 6, 1945

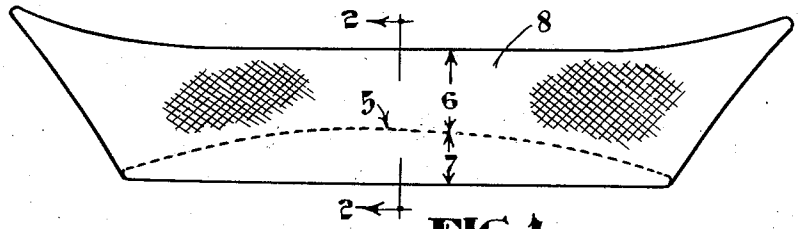


FIG. 1

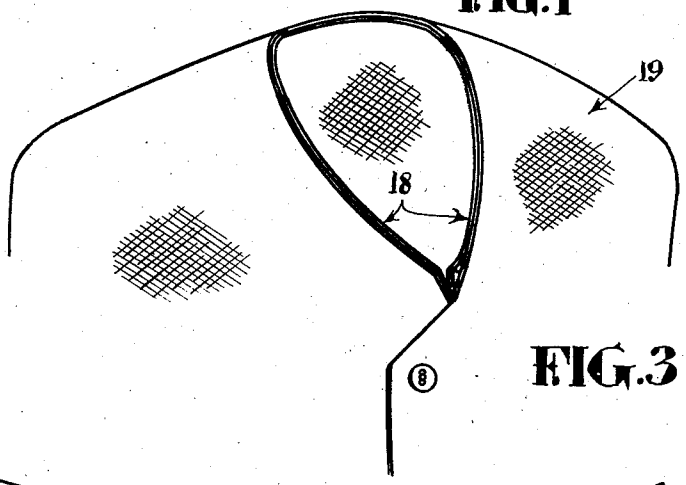


FIG. 3

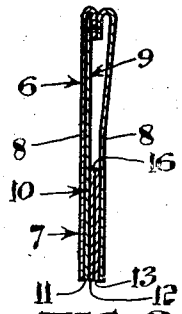


FIG. 2

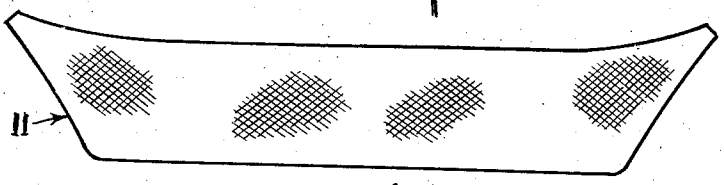


FIG. 4



FIG. 5

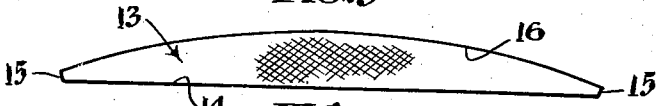


FIG. 6

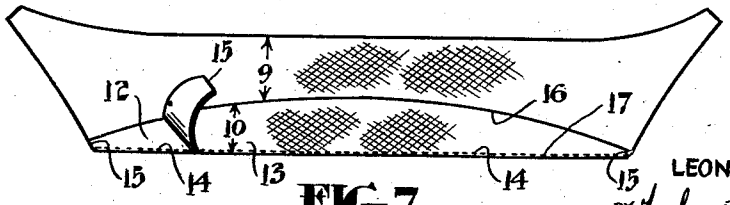


FIG. 7

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TURNDOWN SHIRT COLLAR

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2 Claims. (Cl. 2—131)

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This invention relates to a one-piece shirt collar designed to fold along a predetermined line.

The term "one-piece" as used herein is intended to designate collars in which the neck band and flap portions of the facing plies are in one piece as distinguished from two-piece collars in which separately formed neck band and flap portions are secured together by stitching.

Conventional one-piece collars are unsatisfactory in that they tend to fold along lines other than those intended by the maker of the shirt and soon lose their original shape and symmetrical appearance.

Two-piece collars are open to the objection that they show stitching and do not present a pleasing appearance when left open for hot-weather comfort.

The present invention provides a one-piece collar designed so that it will always fold along the same predetermined line of fold and will present a pleasing symmetrical appearance regardless of whether it is worn buttoned at the neck with a cravat or is left open at the neck for hot weather comfort.

Another important feature is that, in the open position of the collar, there is no unsightly exposure of stitching to mar the appearance of the collar.

More particularly, the invention consists in the provision of a one-piece shirt collar comprising plies of facing material concealing an interposed lining presenting a normally limp and flexible single-ply flap portion and a relatively stiff multi-ply neck band portion having a fold line defining upper edge along which the flap portion of the collar consistently folds when turned down to overlie the neck band portion.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which—

Figure 1 is a plan view of my improved collar as it appears when laid out in a flat unfolded condition.

Figure 2 is a sectional view taken along the line 2—2 of Figure 1.

Figure 3 is a fragmentary view of the neck portion of a shirt to which the collar shown in Figs. 1 and 2 is permanently sewn by any suitable method which renders the sewing inconspicuous.

Figure 4 is a plan view of a lining ply corresponding to the single-ply lining ordinarily employed in permanently attached turn-down collars.

Figure 5 is a plan view of one of the fold line

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and neck band defining lining plies which is associated with the lining ply of Fig. 4 in forming the complete lining.

Figure 6 is a plan view of a further fold line and neck band defining lining ply which is associated with the lining plies of Figs. 4 and 5 in forming the complete lining.

Figure 7 is a view showing how the lining plies of Figs. 4 to 6 inclusive are assembled to form the complete lining.

The dotted line 5 in Figure 1 indicates the line of demarcation between the flap portion 6 of the collar and the neck band portion 7. It also indicates the line of fold along which the flap portion of the collar naturally and consistently folds when turned down over the neck band portion.

The flap and neck band portions of the collar are formed and defined by sewing in place between the one-piece facing plies 8 a special lining presenting a single-ply flap portion 9 and a relatively stiff multi-ply fold line defining neck band portion 10. The component plies of the neck band portion of the lining are respectively indicated at 11, 12 and 13. The neck band ply 11 and the flap portion 9 of the lining are formed by a single strip of material which corresponds to the ordinary lining incorporated in a conventional permanently attached turn-down collar. The intermediate neck band ply 12 of the lining is an adhesive or fusibly ply which is interposed between and fused to the outer neck band plies 11 and 13 to provide a relatively stiff fold line defining neck band construction. In this connection, it will be noted that the lining plies 12 and 13 are dimensioned and shaped so that their upper edges form, in effect, a projecting shoulder 16 at one side of the lining ply 11 which defines the fold line 5 and the upper edge of the neck band portion of the collar.

In the present instance, each of the lining plies 12 and 13 is shaped so that it presents a straight lower edge 14, relatively short substantially vertical end edges 15, and a convexly curved upper edge 16. The shoulder effect formed by the convexly curved upper edges of the lining plies 12 and 13 is sufficiently pronounced so that the flap portion 6 of the collar will naturally and consistently fold along these edges when turned down over the neck band portion 7.

The lining ply 12 may consist of any suitable material which develops adhesive and stiffening properties when subjected to heat. It may consist of any suitable fabric coated or impregnated with cellulose acetate or other substance which

enables it to develop adhesive and stiffening properties when interposed between the lining plies 11 and 13 and subjected to heat. It may also consist of fabric having thermoplastic yarns woven into the texture of the fabric to provide a lining ply similar to that used in certain types of separable so-called "fused-ply" collars.

The component neck band plies 11, 12 and 13 of the lining are assembled, as shown in Figure 7, with the adhesive or fusible ply 12 interposed between the outer lining plies 11 and 13. The three plies 11, 12 and 13 are sewn together along their lower edges as indicated at 17 and are then fused together by the application of heat and/or pressure. The complete lining is then sewn in place between the facing plies 8, as shown in Figure 2, to form the complete collar which is then sewn to the neck band portion 18 of the shirt 19 by any suitable method of sewing which leaves the stitching relatively inconspicuous.

Having thus described the nature of my invention and the preferred embodiment thereof, it will be understood that various modifications may be resorted to within the scope and spirit of the appended claims.

Having thus described my invention, what I claim is:

1. A one-piece collar comprising two facing plies and a lining intermediate the facing plies, said lining comprising a plurality of plies, one of said lining plies being coextensive with the neck band and flap portions of the collar, and another of said lining plies being coextensive with the neck band portion only of the collar, said second lining ply containing thermoplastic adhesive, the upper edge of the first lining ply being connected to the edges of the facing plies, each of said lining plies being in flat engagement and adhesively united by said thermoplastic adhesive throughout their coextensive areas whereby stitching at the upper edge of the second lining ply to the first lining ply is avoided, the upper edge of the second lining ply being convexly curved so that said upper edge forms a shoulder at one side of the first lining ply which defines the fold line and upper edge of the neck band portion of the collar.

2. A collar according to claim 1 wherein another lining ply of similar dimension and shape to the second lining ply is adhesively united by said adhesive to the second lining ply throughout their coextensive areas and on the opposite side from said first-mentioned lining ply.

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