H. STARR.

COLLAR FOR SWEATERS.

APPLICATION FILED FEB. 17, 1913.

1,087,614. Patented Feb. 17, 1914.

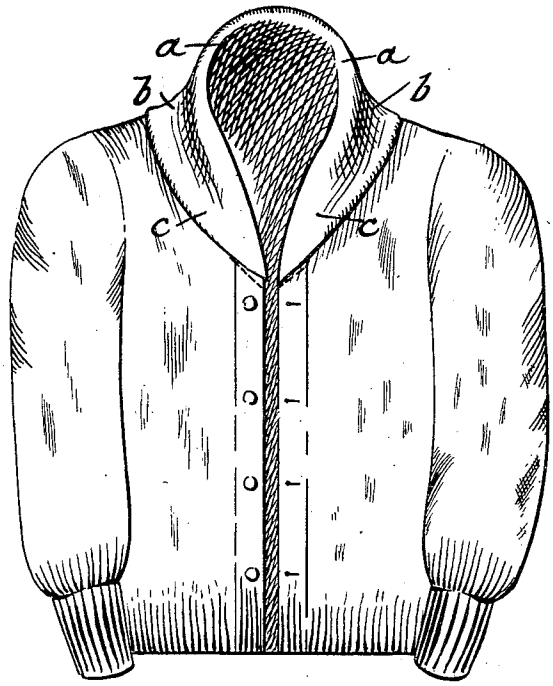


Fig. 1.

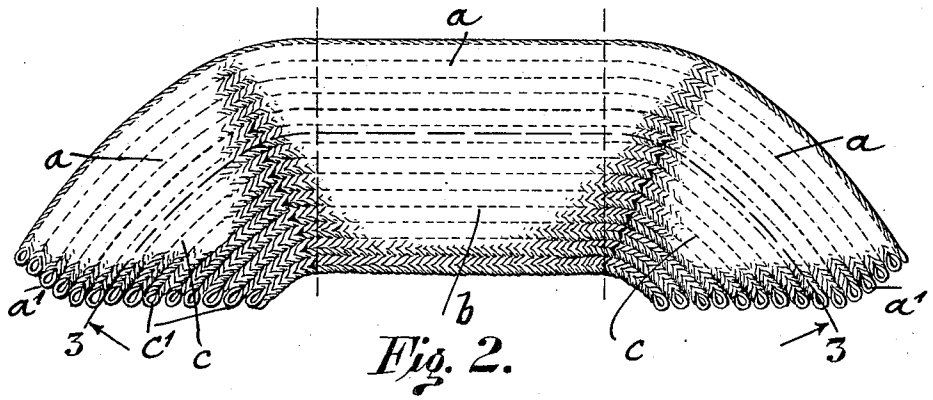


Fig. 2.

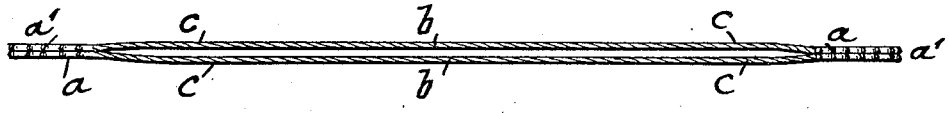


Fig. 3.

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COLLAR FOR SWEATERS.

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To all whom it may concern:

Be it known that I, HYMAN STARR, a citizen of the United States of America, residing in New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Collars for Sweaters, of which the following is a specification.

This invention relates to an improved collar for sweaters which can be used as a standing collar for protecting the neck of the wearer, or as a turn-over collar, that fits neatly and snugly around the neck when the collar is not used as a standing collar; and the invention consists of a collar for sweaters of improved form possessing certain novel features which will be described hereinafter and finally pointed out in the claims.

In the accompanying drawing, Figure 1 represents a front-view of my improved collar for sweaters, shown as folded over, Fig. 2 is a plan-view of the same as spread out into flat shape, and Fig. 3 is a vertical transverse section of the same on line 3, 3, Fig. 2.

Similar letters of reference indicate corresponding parts throughout the different figures of the drawing.

My improved collar for sweaters is made of a seamless tubular body, which is knit either on a straight or on a circular knitting machine in such a manner that it is shaped and curved while in the process of knitting in the machine by adding successively needles when starting at one end of the collar and throwing off successively needles at the opposite end of the collar. For this purpose the outer portion of the collar is knit in a continuous band *a* of uniform width, which is provided at each end with loop-shaped stitches a^1 for permitting the connection of the looped stitches with the tubular front-strips of the sweater by hand knitting stitches. The central portion *b* of the collar is made tapering from the outside toward the inside of the collar, while the side-portions *c* are made of approximately triangular shape and located between the ends of the band *a* and the inclined sides of the central portion *b*. Supposing that the knitting of the tubular seamless collar is commenced at the left-hand end, the stitches required for the outer band *a* are formed continuously, while for the adjacent triangular portion *c* one needle after the other is thrown in in knitting so as to produce the triangular shape of the same, loop-stitches c^1 being formed along its edge in continuation of the loop-stitches a^1 of the band *a* for connecting the edge of the collar with the edge of the V-shaped opening in the body of the sweater. When all the needles are working the knitting is continued for a few courses only, when all the needles are dropped out of work at once, excepting those required for the outer band, which knit continually. The knitting of the central tapering portion of the collar is then continued as follows: The outer band of the central portion is continued with the same number of needles which are employed for the outer band of the side portion, while additional needles one by one are thrown in until all are back into work and the portion up to the left hand dotted line is knitted. Then straight knitting is continued on all the needles for the middle portion of the central portion *b* for a certain number of courses up to the right dotted line, Fig. 2, when the operation is reversed, that is to say, one by one all the needles are thrown off until the number of needles required for the width of the outer band only is at work. Then all the needles are again engaged in work for two or three rounds only, and then one by one the needles are again thrown out of work, so as to knit the triangular portion *c* at the right hand side of the collar, leaving only the number of needles required for completing the outer band. The throwing in and out of the needles in knitting the triangular and central portions of the collar is controlled by a jacquard attachment, which is operated in connection with the knitting machine.

By the angular shape between the tapering central and triangular side-portions of the collar, the outer continuous band *a* of the same is given a curved or angular shape, by which the folding over of the collar is obtained without stretching and without forming folds, so that the collar fits snugly around the neck and shoulders when attached to the body of the sweater and folded over the same. When the collar is to be used as a standing collar for protecting the neck, it is raised and forms an effective protector for the neck.

I claim:

1. As a new article of manufacture, a tubular and seamless collar for sweaters, com-

prising a main portion having tapering sides, side portions having tapering sides adjacent to the tapering sides of the main portion, said main and side portions being joined integral with each other and joined and shaped in knitting and tubular and seamless throughout their length and an outer band extending at the exterior of the main and side portions.

2. As a new article of manufacture, a tubular and seamless collar for sweaters, comprising a body formed of an outer continuous curved band, a central tapering portion adjacent the curved band, triangular side-portions adjacent the curved band and adjacent the ends of the tapering portion, the outer ends of the band and side-edges of the triangular side-portions being provided with looped stitches for knitting connection with the front-strips of the sweater-body and the V-shaped opening of the same, said tapering portion and side-portions being joined at their meeting edges so as to be substantially integral with each other and shaped into form in the knitting and arranged tubular and seamless throughout the length of the tapering portion and side-portions, said outer continuous curved band extending from one end of one side portion along the side portion, along the main portion, along the other side portion, to the other end thereof.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

HYMAN STARR.

Witnesses:
PAUL GOEPEL,
JOHN MURTAGH.

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