

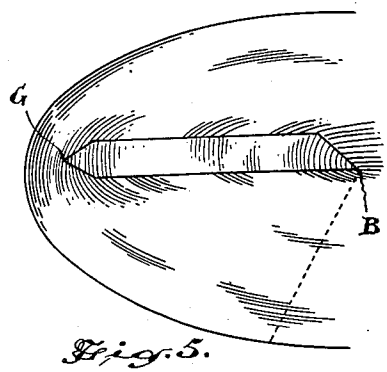
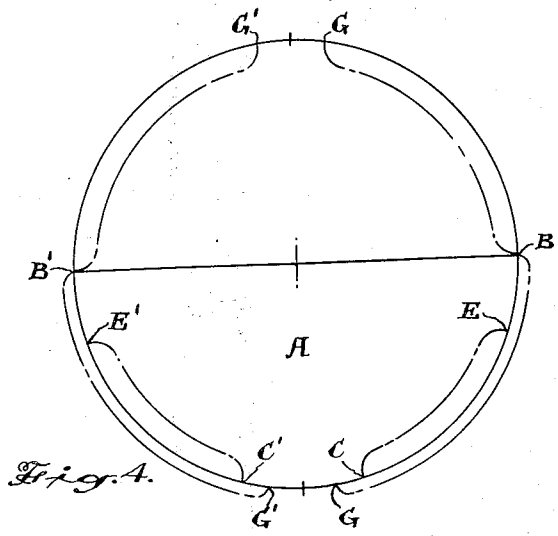
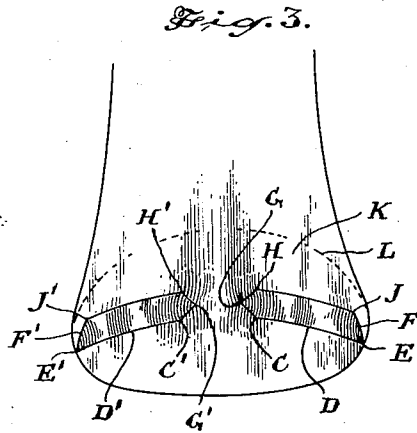
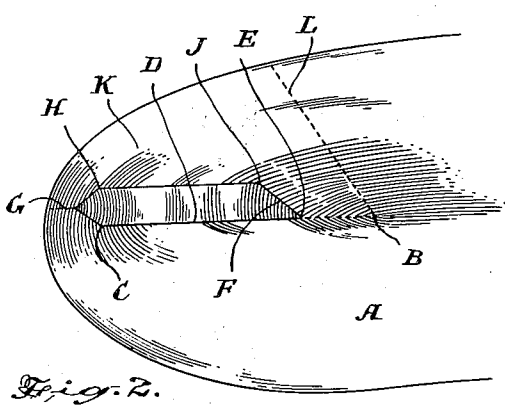
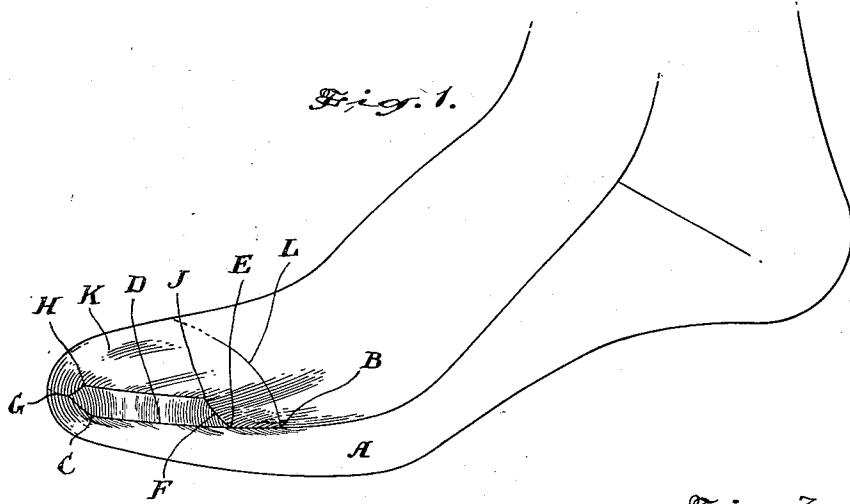
Oct. 2, 1934.

J. M. ALLEN

1,975,706

HOSIERY TOE

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UNITED STATES PATENT OFFICE

1,975,706

HOSIERY TOE

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Application October 19, 1931, Serial No. 569,735

1 Claim. (Cl. 66—187)

The principal objects of this invention are to devise a formation of toe pocket for a stocking which will accommodate the foot of the wearer without binding and will be free from any loose or puckered portions which would render the garment uncomfortable or unsightly.

The principal feature of the invention consists in the novel manner of knitting the toe pocket whereby gussets with tapering ends are arranged at either side of the toe pocket and such gussets are so formed as to impart the desired width to the toe to ensure a proper fit and the narrowing and widening portions of the toe pocket knitted around said gussets are so formed as to impart the desired width and shape to the pocket.

In the drawing, Figure 1 is a perspective view of a stocking foot constructed in accordance with this invention.

Figure 2 is a side view showing the toe portion in the flat.

Figure 3 is an end view of the toe.

Figure 4 is a diagrammatic view illustrating the arrangement of the needles on a circular knitting machine to make the novel stocking and the order in which these are put into operation.

Figure 5 is a side view showing a modified form of the invention.

In the manufacture of the stocking herein shown the leg, heel and foot portion are knitted in any well known manner and in the commencement of the knitting of the toe pocket it may be found desirable to knit the bottom section first, or the process may be reversed and the top section may be knitted first.

In the form illustrated, the bottom section A is knitted from the point B on the median line of the foot to form a progressively narrowing fabric continued to the point G. Then a group of needles which have been withdrawn from action in the knitting of the narrowing toe are returned into action simultaneously to knit a course of stitches D along the narrowing edge from the point C to the point E.

A course is then knitted to the course D from E to C, lifting one needle out of action at the commencement end. A plurality of courses of the same length are then knitted, lifting needles out of action at the inner end and narrowing the fabric and returning needles into action at the outer end and widening the fabric from C to G. From the point G the knitting is continued, lifting needles out of action at the end of each course, narrowing the fabric at both ends until the points H and J have been reached and a gusset is formed with the narrowing end F at

one end extending from the point E, while at the other end the gusset is formed with a broad V-shaped end. Upon the completion of this gusset at one side of the narrowing bottom section A the last course is continued from H to G and across the toe end and along the opposite side D' of the section A to E'. A course is then knitted from E' to C' lifting one needle out of action at the inner end and returning one to action at the outer end. A plurality of courses are then knitted until a gusset has been knitted similar to the one on the other side of the toe.

After both gussets have been completed, needles are returned into action to knit a course from H' to G across the toe end and knitting is continued between the points G, G' and needles are brought into action at each end of each course to knit a widening top toe fabric K, the courses being knitted along the top edges of both of the gussets until the points J, J' are reached.

A group of needles corresponding with the number of courses in the gusset is then brought simultaneously into action to extend a course across the end of the gusset from J to E and in the next course another similar group is brought into action to knit across the end of the other gusset from J' to E', thus abruptly widening the fabric the width of the gussets. The knitting is then continued and from the points E, E' on either side the fabric is knitted by a progressive widening through bringing into action an extra needle at the end of each course. This widening continues until the toe is knitted back to the points B, B' and the fabric of the toe pocket top section K and the instep of the foot is joined by the loop line L.

It will be readily understood that if it be desired to knit the top section of the toe pocket continuously from the instep side the arrangement of operating the needles may be reversed. Further, it will be understood that it is optional with the knitter as to the distance the points E, E' of the gusset are spaced from the points B, B' which form the commencement of the toe pocket suture, which may be about twenty needles from B or may commence at the point B, as shown in Figure 5.

The V-shaped fashioning suture at the end of each gusset, together with the knitted narrowing end at the inward end of each gusset and the manner of abruptly widening the section of the toe pocket produces a toe pocket which is sufficiently narrow at the point, but widens out in conformance with the contour of the average foot.

It will be noted that by abruptly narrowing the top section of the toe pocket a number of wales equal to the number of courses in each gusset, the top toe section is materially shortened, thus producing in the stocking that desirable feature of having the underside considerably longer than the top side, consequently wrinkling on the in-step is avoided.

The knitting of the gussets on either side of the toe with the broad V-shaped ends forming sutures with the tapering toe sections is very important as the knitting is accomplished without interrupting the contour, and thereby avoiding the forming of any protuberances or pockets.

A stocking knitted as described is neat in appearance and constructed entirely without seams

in the toe and fits the toe accurately without possessing any of the undesirable qualities of wrinkling or puckering, or the presence of seams to injure the foot of the wearer.

What I claim as my invention is:

A stocking having narrowing and widening segments in the toe with a gusset on each side located between said two segments, the ends of said gussets nearest the foot being progressively narrowed from bottom to top and the bottoms being on the median line of the foot, the ends nearest the point of the toe being tapered in V-shaped form to points above the median line of the foot.

JOHN M. ALLEN.

5	80
10	85
15	90
20	95
25	100
30	105
35	110
40	115
45	120
50	125
55	130
60	135
65	140
70	145
75	150