July 13, 1937. J. E. QUINN 2,086,820

HOSIERY

Original Filed Nov. 18, 1933

FIG. 1.

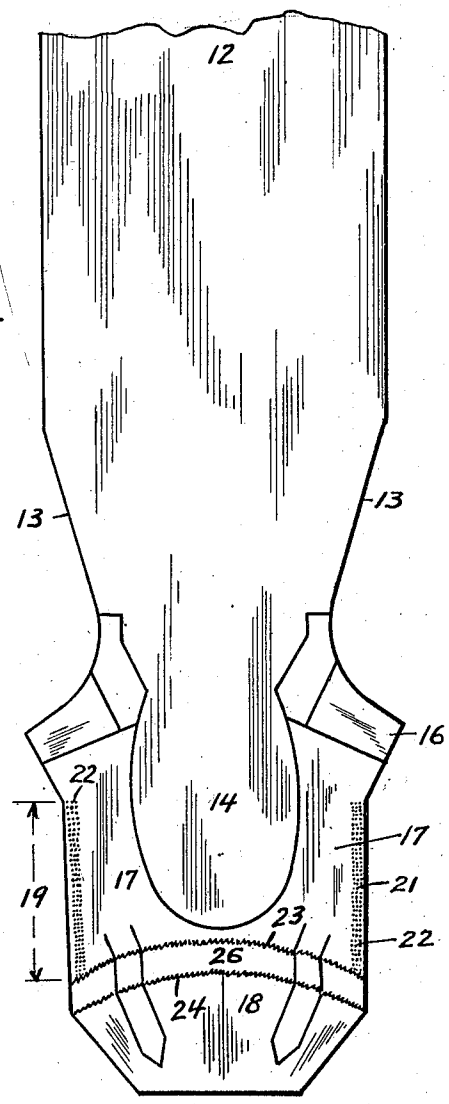
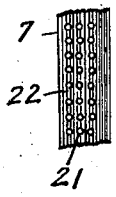


FIG. 2.



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Patented July 13, 1937 2,086,820

UNITED STATES PATENT OFFICE

2,086,820

HOSIERY

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Original application November 18, 1933, Serial No. 698,555. Divided and this application January 15, 1937, Serial No. 120,671

2 Claims. (Cl. 66—185)

This invention relates to the manufacture of hosiery and particularly to full fashioned hosiery knit in a flat web or blank.

This application is a division of my co-pending application Serial No. 698,555, filed November 18, 1933.

One of the particular features of this application is an improvement in the method of manufacture of the stocking described and claimed in my United States Letters Patent No. 1,789,450 issued January 20, 1931, on application filed June 27, 1928.

In that patent there is shown and claimed a stocking having a separately formed toe pocket united to the foot portion by a transverse course of interlooping stitches, whereby the knitted structures in the foot portion and in the toe portion are independent by conjointly forming part of a completed stocking, all of which inter alia will prevent any so-called runs in the toe pocket passing into the foot and instep of the stocking.

One object of the present invention is to knit both foot and toe in a continuous operation without sacrificing the feature just above described.

Another object of this invention is to provide the sole of the stocking with means which provides increased elasticity both transversely and longitudinally, and which also provides ventilation to the foot of the wearer.

According to the invention, the full fashioned stocking web or blank has sole, instep and toe parts, and the toe is provided with two separated rows of loose loops therein. These loose loop rows may be placed on a looper and the intermediate material removed before looping. Further, the stocking may be provided with lace-like bands extending along and parallel with the selvage edges of the sole.

The drawing illustrates an embodiment of the invention and the views therein are as follows:—

Figure 1 shows a plan view of a full fashioned stocking web or blank embodying the features of invention and with the upper portion broken away, and

Figure 2 is an enlarged detail of the lace-like block along one selvage edge of the sole.

The conventional ladies' full fashioned stocking web or blank shown in Figure 1 has leg 12 of the stocking narrowed along the lines 13—13 so that when folded and seamed, it will fit the shape of the leg of the wearer.

The instep or upper foot portion 14 is knitted with normal stitches corresponding to the leg portion 12 and is more or less surrounded by the heel part 16, sole part 17, and toe part 18. The heel, sole and toe parts are often, if not always, reinforced by introducing heavier threads along with the lighter normal threads of the parts 12 and 14. The part usually designated as the sole portion proper is that extending the length of the dimension 19.

In the formation of my improved stocking blank, I employ a narrowing bar or bars along this area to transfer loops to form the openings 21 of the lace-like blocks 22. The selvage edges of the sole parts 17 are substantially parallel and a limited number of wales only adjacent the selvage transferred. This produces the lace-like blocks 22 and provides increased elasticity both transversely and longitudinally, in addition to providing ventilation to the foot of the wearer.

Below the sole and instep is the toe part 18. This part is knitted with two rows of loose loops 23 and 24 with an intermediate portion 26 of regular knitting therebetween.

When the entire foot has been knitted by finishing same with normal knitting below the loose loop row 24 the stocking web or blank is removed from the knitting machine and thereafter the two rows of loose loops 23 and 24 are joined on a looper and after the intermediate part is removed the loose courses are connected by the looper so that there is formed a joinder which will prevent runs which occur in the toe from passing upward into the foot or instep of the stocking.

This invention eliminates the necessity of making separate toe pockets and provides means for completing the entire knitting of the stocking on a single machine. Of course, in some intances, both leggers and footers will be used, but the entire foot including the toe part will be knit on the footer.

Of course, the invention herein illustrated and described may be varied in many ways without departing from the invention herein set forth and hereafter claimed.

The invention is hereby claimed as follows:—

1. The herein described method of manufacturing a full fashioned stocking blank, comprising the steps of knitting sole and instep parts, then knitting a toe part with two separated rows of loose loops therein, then placing the rows of loose loops on a looper, then removing the intermediate material, and then looping the loose loops together.

2. The herein described method of manufacturing a full fashioned stocking blank, comprising the steps of knitting sole and instep parts, then knitting a toe part with a course of loose loops adjacent the end of the instep, then knitting a plurality of regular courses, then knitting another course of loose loops, then completing the toe by regular knitting, then placing the loose courses on a looper, then removing the intermediate material, and then looping the loose courses together.

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