May 14, 1935. W. WILSON 2,001,293

KNITTED STOCKING FOOT PROTECTOR

Original Filed Feb. 10, 1934

FIG. I.

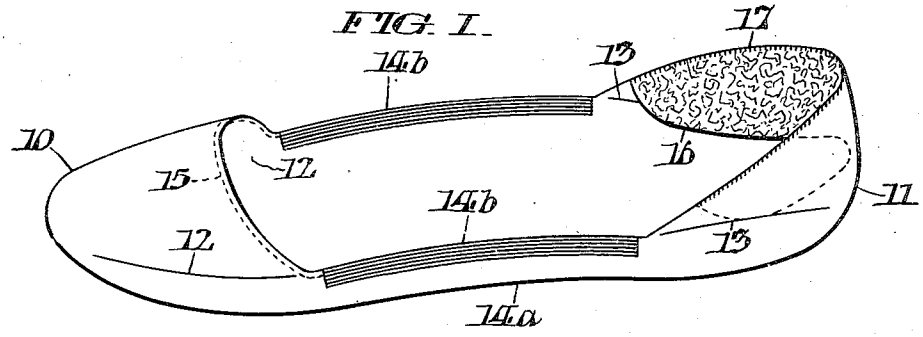


FIG. II.

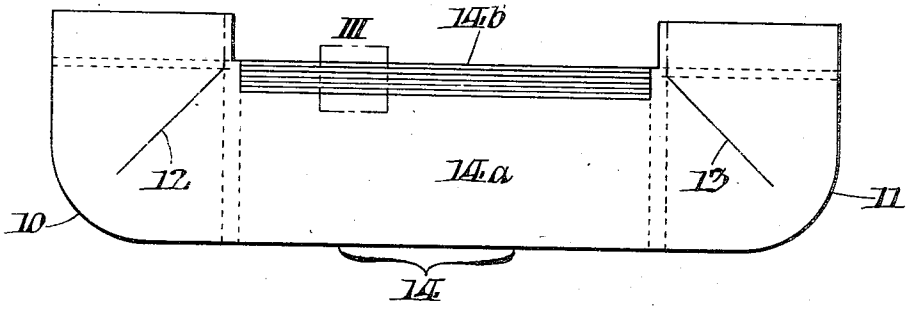
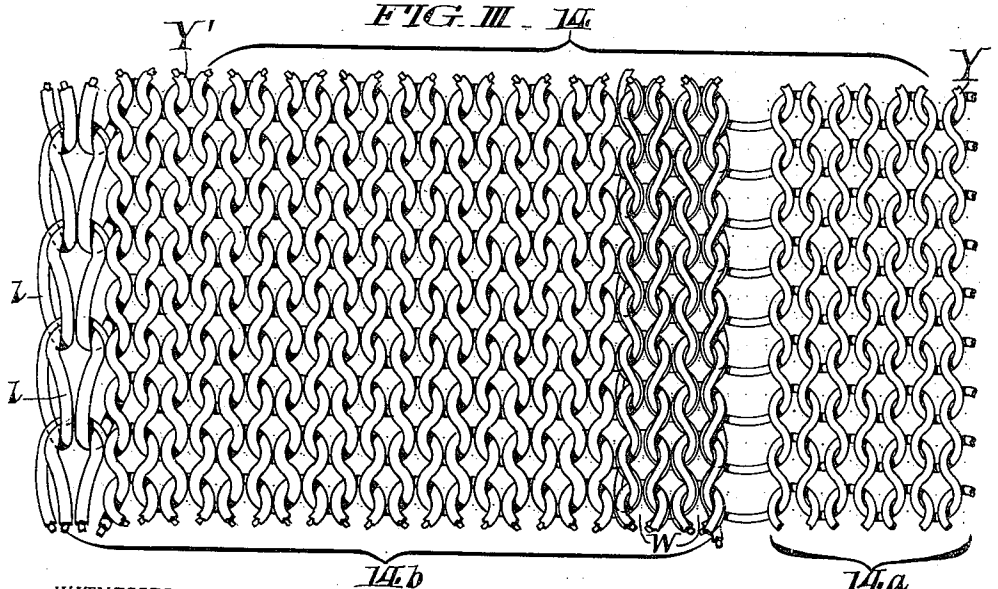


FIG. III.



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KNITTED STOCKING FOOT PROTECTOR

Wallace Wilson, Philadelphia, Pa.

Original application February 10, 1934, Serial No. 710,606. Divided and this application July 11, 1934, Serial No. 734,575

9 Claims. (Cl. 66—171)

This invention relates to protectors adapted to be worn over the feet of stockings, the present application being a division of a previous patent application Serial No. 710,606 filed by me on February 10, 1934, for a Method of, and machine for producing knitted stocking foot protectors.

My present invention has for its chief aim the provision of a stocking foot protector which will not only conform accurately to the foot of the wearer, but which will hold itself in place without the aid of separate or extraneous securing means. This desideratum I realize, as hereinafter fully disclosed, in a stocking foot protector knit for the most part of a non-elastic yarn in simulation of the foot of an ordinary stocking, and having incorporated along opposite sides of its sole portion, longitudinally-contractile, knit-in edge margins of elastic yarn.

A further aim of my invention is to secure the above advantages in a stocking foot protector which lends itself to formation in continuous succession with others on a circular knitting machine such as featured in my earlier application supra, suitably adapted for the purpose.

Still other objects and attendant advantages of this invention will be manifest from the detailed description which follows of the attached drawing, wherein Fig. I is a perspective view showing my improved stocking foot protector.

Fig. II is a view showing the blank for the protector as it comes from the knitting machine; and

Fig. III is a detail view on an enlarged scale showing the texture of the sole portion of the protector within the area bounded by the dot-and-dash rectangle III in Fig. II.

As delineated in Figs. I and II, my improved stocking foot protector resembles the foot portion of an ordinary seamless stocking except for the omission of an instep, its toe and heel 10 and 11 respectively having the diagonal sutures 12 and 13 characteristic of such hosiery. The toe and heel portions 10 and 11 are knit from woolen, silk or cotton yarns of comparatively heavy gage for the purposes of resistivity to wear, and for warmth. The connecting sole portion 14, it will be noted, reaches up to a level slightly above the inner ends of the diagonal toe and heel sutures 12 and 13 at opposite sides of the protector. The main or central section 14a of the sole portion 14 is knit from a woolen, silk or cotton yarn Y (Fig. III) of a gage somewhat lighter than that used in the toe and heel portions 10 and 11; while the relatively narrow marginal sections 14b along the longitudinal edges of the sole portion are knit from separate covered elastic yarns whereof one is designated Y' in Fig. III, said marginal sections being terminated at opposite ends somewhat inward of the toe and heel sutures 12 and 13. As shown in Fig. III, the section 14a and the marginal sections 14b of the sole 14 are respectively formed as selvaged webs whereof the contiguous end loops in successive courses are interknitted at each side of the protector along definite pairs of fabric wales W after the manner of split foot hosiery. From Fig. III it will be observed that the selvage loops l along the outer edges of the sole portion 14 are of peculiar formation and each comprehends two courses of the knitting. The reason for this is clearly pointed out in the copending application hereinbefore referred to.

When the protector is worn, the elastic margins 14b act as contractile straps to maintain the side edges of the protector under tension longitudinally and so effectively hold it against displacement on the foot of the wearer. In this function the elastic margins 14b are assisted by a strand of elastic yarn 15 which is attached along the crosswise edge of the toe 10 and which is anchored at its ends, by sewing or otherwise, in the fabric of the protector adjacent the corners of the toe sutures 12. An insert 16 of leather or other material affording a rough surface is attached by sewing along the upper edge of the heel 11 as conventionally indicated at 17. This insert, by coaction with the fabric of the stocking, serves to prevent the back end of the protector from slipping off the heel of the wearer.

Having thus described my invention, I claim:

1. As a new article of manufacture, a knitted stocking foot protector having a heel, a toe, and a connecting sole portion of a width to extend substantially half way up the sides of the foot, said sole portion comprising knit-in edge margins of elastic yarn.

2. As a new article of manufacture, a knitted stocking foot protector having a heel, a toe, and a connecting selvage-edged sole portion of a width to extend substantially half way up the sides of the foot, said sole portion comprising knit-in margins of elastic yarn.

3. As a new article of manufacture, a knitted stocking foot protector having a heel, a toe, and a connecting sole portion of a width to extend substantially half way up the sides of the foot, said sole portion comprising knit selvage-edged marginal sections of separate elastic yarns, and a split suture-connected intermediate selvage-edged section of non-elastic yarn.

4. As a new article of manufacture, a knitted

stocking foot protector having a seamless heel, a seamless toe, and a connecting sole portion with its longitudinal edges substantially in line with the inner ends of the diagonal heel and toe sutures, said sole portion comprising knit-in edge margins of elastic yarn.

5. As a new article of manufacture, a knitted stocking foot protector having a seamless heel, a seamless toe, and a selvage-edged connecting sole portion with its longitudinal edges substantially in line with the inner ends of the diagonal heel and toe sutures, said sole portion comprising knit-in edge margins of elastic yarn.

6. As a new article of manufacture, a knitted stocking foot protector having a seamless heel, a seamless toe, and a connecting sole portion with its longitudinal edges substantially in line with the inner ends of the diagonal heel and toe sutures, said sole portion comprising knit selvage-edged marginal sections of elastic yarn and a split suture-connected selvage-edged intermediate section of non-elastic yarn.

7. As a new article of manufacture, a knitted stocking foot protector having a seamless heel, a seamless toe, and a connecting sole portion with its longitudinal edges substantially in line with the inner ends of the diagonal heel and toe sutures, said sole portion comprising knit-in edge margins of elastic yarn and terminating short of the inner ends of the heel and toe sutures, and knit portions intermediate the inner ends of the heel sutures and the contiguous ends of the margins aforesaid of non-elastic yarn.

8. As a new article of manufacture, a knitted stocking foot protector having a heel, a toe, and a connecting sole portion of an extent to reach substantially half way up the sides of the foot, said sole portion comprising knit-in edge margins of elastic yarn, and a liner of friction material within the heel.

9. As a new article of manufacture, a knitted stocking foot protector having a heel, a toe, and a connecting sole portion of an extent to reach substantially half way up the sides of the foot, said sole portion comprising knit-in edge margins of elastic yarn, and a strand of elastic yarn incorporated with the terminal loops across the top of the toe.

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