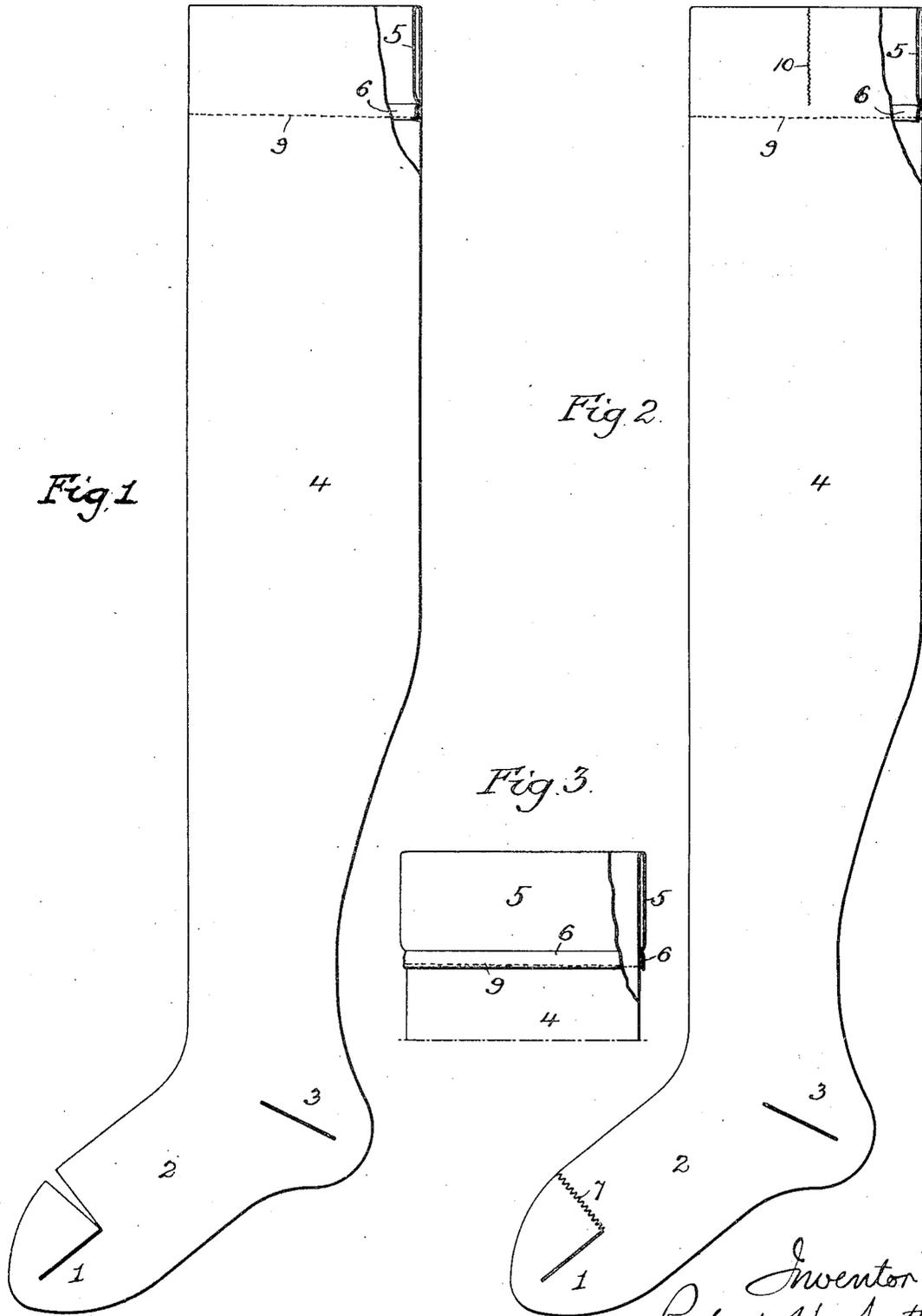


R. W. SCOTT.  
HOSIERY.

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1,037,669.

Patented Sept. 3, 1912.



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# UNITED STATES PATENT OFFICE.

ROBERT W. SCOTT, OF LEEDS POINT, NEW JERSEY, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO SCOTT & WILLIAMS, INCORPORATED, OF CAMDEN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## HOSIERY.

1,037,669.

Specification of Letters Patent. Patented Sept. 3, 1912.

Application filed March 29, 1910. Serial No. 552,221.

To all whom it may concern:

Be it known that I, ROBERT W. SCOTT, a citizen of the United States, residing in Leeds Point, Atlantic county, New Jersey, have invented certain Improvements in Hosiery, of which the following is a specification.

The object of my invention is to provide an effective form of turned welt or hem upon that class of stockings in which the knitting progresses from the toe toward the top. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawing, in which—

Figures 1 and 2 are views of two different types of stockings made in accordance with my invention, and Fig. 3 is a view of the upper portion of a stocking having thereon another form of hem or welt in accordance with my invention.

Fig. 1 of the drawing represents a stocking of that type in which, as the stocking is delivered by the machine, the toe pocket is disconnected from the upper portion of the foot and is subsequently secured thereto by means of an ordinary looping machine, while in the stocking shown in Fig. 2, the uniting of the toe pocket to the top of the foot is effected by the operation of the machine upon which the knitting of the stocking is effected.

The knitting of the stocking shown in Fig. 1 can be effected upon any ordinary type of knitting machine adapted for knitting a stocking with heel and toe thereon but equipped with a second set of needles or points corresponding to the dial needles of an ordinary rib knitting machine, but susceptible of special operation so as to transfer their stitches to corresponding needles of the cylinder. Such a machine is shown and described in my Letters Patent No. 834,763, dated October 30, 1906. In knitting my improved stocking upon such machine, the knitting operation is started by preference upon the cylinder needles and the toe pocket 1 is first formed upon one-half of said needles in the usual way, the other half of the needles being then brought into action and tubular web for the foot 2 of the stocking being knitted until a sufficient length of web for the foot has been completed, whereupon the needles around the instep portion of the machine are retired from action but

permitted to retain their stitches and the knitting of the heel pocket 3 is effected in the same manner and preferably upon the same needles which were employed in knitting the toe pocket. When the knitting of the heel has been completed, the instep needles are again brought into action and tubular web for the formation of the leg 4 of the stocking is proceeded with. When the production of this web has continued up to the point at which it is desired to form the hem, one-half or other desirable number of the cylinder needles are prevented from rising but retain their stitches and the dial needles or points corresponding to said retired cylinder needles are projected together with the remaining cylinder needles, so that the knitting yarn will be fed to both sets of needles to form uniting loops or stitches upon the dial needles, or, if desired, every other one of the cylinder and dial needles may first receive the yarn, and may then be retired and the yarn fed to the alternating needles so as to provide a uniting loop or stitch for each wale of the web. After having received this course of loops or stitches, the dial needles are retired but retain said loops or stitches and knitting is proceeded with upon all of the cylinder needles until a length of web twice as long as the depth of the desired hem or welt 5 has been produced, whereupon, while the cylinder needles are depressed, the dial needles are projected so as to carry their loops or stitches into position for engagement with the corresponding cylinder needles which are thereupon projected so as to engage said loops or stitches and the dial needles are retracted in order to cast the loops or stitches therefrom onto said cylinder needles. A sufficient number of courses of stitches are then knitted upon all of the cylinder needles to provide a band or strip 6 of such a width that it is not likely to ravel back to the point of connection of the interned portion of the welt with the leg of the stocking, whereupon the stitches may be cast off of the cylinder needles or the knitting of the toe pocket for another stocking may be started upon one-half of the needles, the stitches being cast off of the other half.

The stocking shown in Fig. 2 has the seamless toe-pocket, foot, heel and leg, and also has the top of the toe pocket integrally

united to the front portion of the top of the foot by a line of setting-up stitches 7. A stocking of this character can be produced upon a machine of the type shown in the patent of John F. Nelson, No. 617,039, dated January 3, 1899, such machine having two straight needle beds upon which the seamless leg and foot of the stocking with the integrally united seamless toe and seamless heel are knitted, these needle beds being combined with an extra set of needles for the purpose of producing a ribbed top upon the stocking. In producing my improved stocking upon a machine of this type, the operation is carried on as usual for the production of the closed toe, foot, heel and leg, but instead of operating the extra set of needles for the production of ribbed fabric at the top of the stocking, said needles are only projected once to receive the course of loops or stitches for binding in the in-turned hem or welt and are then retired, holding the loops or stitches which have been applied to them, after which plain web is knitted first upon the needles of one needle bed and then upon those of the other needle bed for a length equal to twice the depth of the desired welt, whereupon the loops or stitches are transferred from the extra needles to corresponding main needles, and a few courses are knitted upon the latter to produce the strip 6, and then the operations are repeated.

In Fig. 3 I have shown the upper portion of a stocking having thereon an out-turned welt, with strip 6, this welt being formed in the manner set forth in my application for

Patent, Serial No. 552,002, dated March 28, 1910. To prevent the edge of the strip 6 from raveling it may be secured by over-edge stitches, or it may be sewed by elastic stitches to the leg web, this sewing operation being facilitated by the fact that the wales of the leg web and strip are in register and the sewing follows the courses of the webs. Such retaining stitches are shown at 9.

The stocking shown in Fig. 2 will require short vertical seams 10 in the welt at each side, owing to the fact that the welting webs are knitted independently upon the two needle beds of the machine.

I claim:

1. A stocking having, at the top of a plain web leg, a turned welt integrally united to the leg of the stocking and having, beyond said point of union, a projecting strip of plain web to prevent release of the uniting stitches.

2. A stocking having, at the top of a plain web leg, a turned welt integrally united to the leg of the stocking and having, beyond said point of union, a projecting strip of plain web to prevent release of the uniting stitches, the edge portion of said strip having confining stitches to prevent raveling.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

ROBERT W. SCOTT.

Witnesses:

HAMILTON D. TURNER,  
KATE A. BEADLE.