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O. M. SCHUSTER

HOSIERY

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Fig. 1.

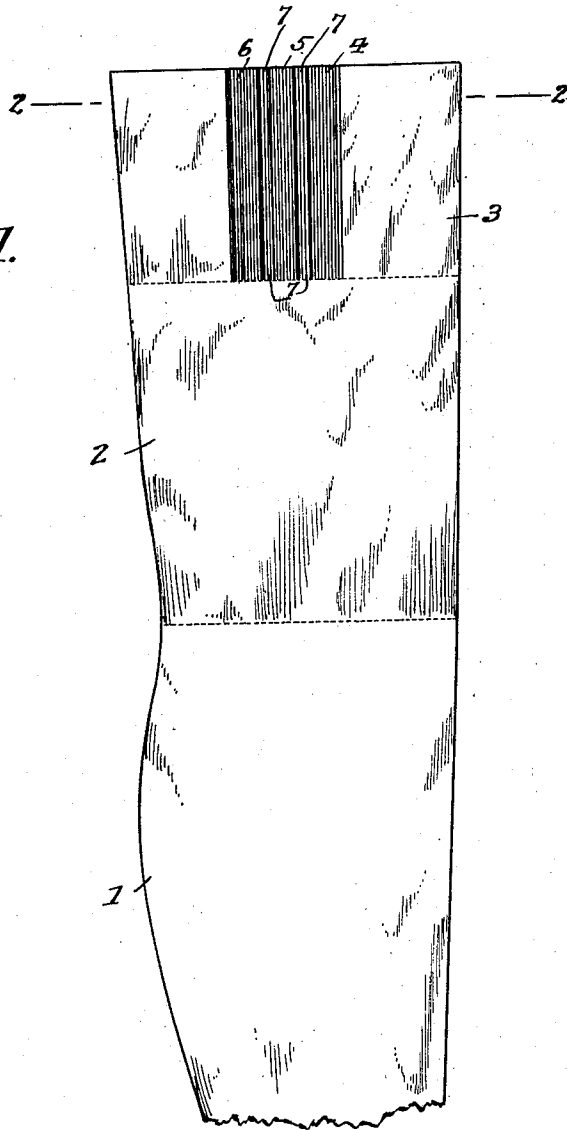
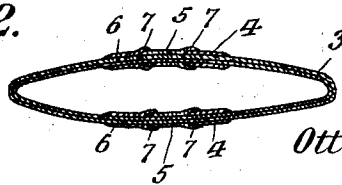


Fig. 2.



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HOSIERY.

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To all whom it may concern:

Be it known that OTTO M. SCHUSTER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, has invented certain new and useful Improvements in Hosiery, of which the following is a specification.

This invention relates to new and useful improvements in hosiery, more particularly to ladies' hosiery, and the primary object of the invention is to provide in such hosiery reinforcing means at the points of engagement with the hose supporter, thus preventing the customary "runs" and other damage at these points.

A still further object of the invention resides in providing reinforcing blocks in the welt of the stocking which blocks are so constructed as to give the maximum amount of resistance and minimum weight at predetermined points therein.

I am aware of the fact that there has been an attempt in this same direction to provide reinforcing blocks in the welt of the stocking, but my invention contemplates an improvement over all previous inventions along this line, in that the blocks are so formed to provide the greatest possible strength at the least expense in manufacture, without causing unnecessary bulk in the welt of the stocking.

Still another object of the invention resides in forming the blocks by plaiting an additional thread of yarn in the welt, the block being formed of a plurality of vertical strips overlapped at their edges, the overlapped portions affording the maximum strength against engagement by the clips of a hose supporter.

Still another object of the invention resides in providing a reinforcement for the welt of a stocking which is simple and durable in construction, inexpensive to manufacture, and one which will be very efficient and useful in operation.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application,—

Figure 1 is a fragmentary side elevation of a stocking embodying my invention; and

Figure 2 is a transverse section as seen on the line 2—2 of Fig. 1, the reinforcing means being exaggerated for purposes of illustration.

In describing the invention, I shall refer to the drawing in which similar reference characters designate corresponding parts in the several views and in which 1 designates the leg portion of a stocking woven preferably of silk, my invention being primarily for use in connection with ladies' silk stockings. An upper leg portion 2 may be formed of silk, cotton, lisle or other material, and formed on the upper end of this portion 2 is the welt 3, which is formed in the usual or any preferred manner by folding the portion upon itself, the free edges being secured in the usual manner.

As known to all manufacturers and users of silk hose, engagement of the clip of the hose supporter with the upper end of the stocking causes damage thereto from which results the so called "runs" or "ladders." To overcome this difficulty, various methods have been used which have been more or less ineffective. I have provided a means for accomplishing the desired results which will afford maximum strength, resisting the greatest strains and which will at the same time permit the usual elasticity and be inexpensive to manufacture.

To this end, I provide in the welt of the stocking reinforcing blocks arranged substantially at diametrically opposite points thereon, the block being plaited therein by the addition of an extra thread of yarn in the course of manufacture of the stocking. This block comprises a series of vertically arranged and overlapping strips, the same being designated respectively in the drawing by the numerals 4, 5 and 6. In the drawing, as stated, I have shown three such vertical strips with their adjacent side edges in overlapping relation, which strips comprise this reinforcing block and, of course, it will be understood that the number of strips may be increased or decreased as may be desired. The overlapping portions of the

strips forming this block are designated in the drawing by the numeral 7.

In the formation of this reinforcement the welt is woven in the usual manner and when the point is reached where the reinforcement is to be introduced, a rod carrying the additional thread carrier with two or more yarn feeds is moved into position on the machine. In the present instance where the reinforcing block is disclosed as containing three strips having their adjacent side edges overlapping, the yarn carrier contains three separate yard feed tubes. When the machine is set into motion each feed tube carries the yarn slightly over one-third of the width of the proposed reinforced block, and then the movement is reversed. In other words, the yarn carrier moves back, making the next course and for the distance the feeding tubes have moved over one-third of the block, the fabric is tripled. In this manner the overlapping in these vertical strips is provided which constitutes the aforementioned reinforcing block, and said overlapping is more clearly illustrated in Fig. 2 of the drawing, although greatly exaggerated for purposes of illustration.

Providing reinforcing blocks in the welt will, of course, afford means for the engagement thereof of the clips of the hose supporter. By forming these reinforcing blocks of overlapping vertical strips it will be seen that great strength is provided at the overlapped portions and these portions are positioned so as to be most certainly engaged by the clips of the hose supporter, thus insuring the maximum strength at these points. It is, of course, not desirable to have the overlap of the vertical strips of any great width because too much bulk would occur at these points. It is essential to have strength and elasticity and yet permit the welt to be light in weight, all of which is true in a stocking constructed in accordance with my invention.

From the foregoing description of the construction of my invention, the manner of embodying it in a stocking and its usefulness will be readily understood. While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion, and in the minor details of construction may be resorted to, without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention, what I claim is:

1. In a stocking including a leg portion and a welt formed at the upper end thereof, garter reinforcing blocks formed in said welt by plaiting an additional thread of yarn therein, said blocks consisting of a plurality of overlapping strips the overlapping portions affording additional reinforcement.

2. In a stocking including a leg portion and a welt formed at the upper end thereof, garter reinforcing blocks formed in said welt by plaiting an additional thread of yarn therein, said blocks consisting of a plurality of vertically arranged overlapping strips the overlapping portions affording additional reinforcement.

3. In a stocking including a leg portion, and a welt formed at the upper end thereof, a pair of rectangular reinforcing blocks formed in said welt at diametrically opposite points therein by plaiting an additional thread of yarn, said blocks being composed of a plurality of successively overlapping strips, the overlap of said strips being relatively small and affording additional reinforcement.

4. In a stocking including a leg portion and a welt at the upper end thereof, reinforcing blocks formed in said welt composed of a plurality of sections having their edges in overlapping relation the overlapping portions affording additional reinforcement.

In testimony whereof I affix my signature.

OTTO M. SCHUSTER.