

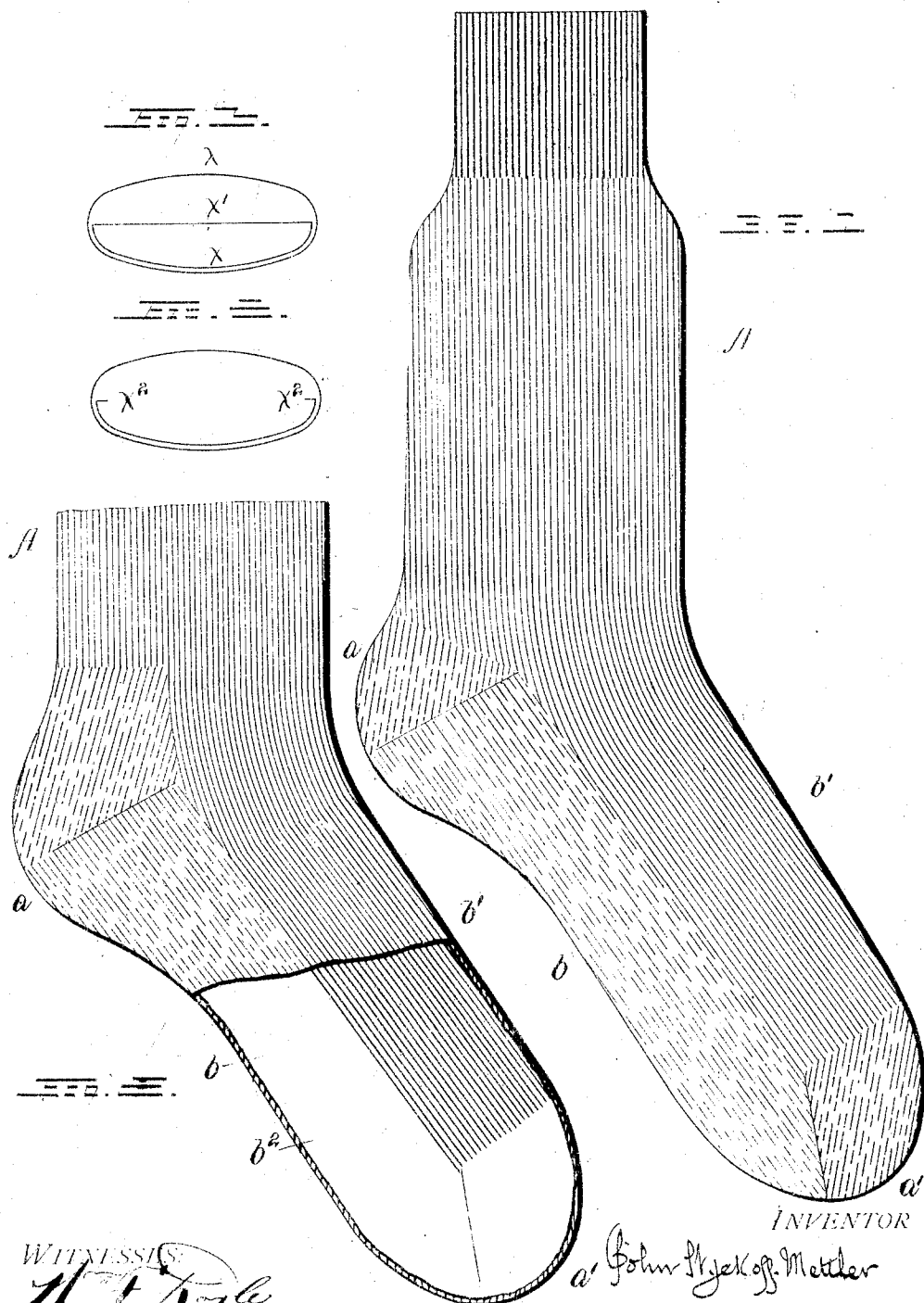
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J. W. METTLER.

HOSIERY.

APPLICATION FILED SEPT. 22, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN WYCKOFF METTLER, OF EAST MILLSTONE, NEW JERSEY, ASSIGNOR TO INTERWOVEN STOCKING COMPANY, OF NEW BRUNSWICK, NEW JERSEY. A CORPORATION OF NEW JERSEY.

HOSIERY.

No. 882,951.

Specification of Letters Patent

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To all whom it may concern:

Be it known that I, JOHN WYCKOFF METTLER, citizen of the United States, residing at East Millstone, in the county of Somerset and State of New Jersey, have invented certain new and useful improvements in Hosiery; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to the art of making hosiery and more particularly to the production of stockings which shall possess certain hygienic and enduring qualities in a novel manner.

Many of the dyes used in coloring stockings have a tendency to reduce the strength of the threads constituting the web. It has therefore been proposed to make the heel bottom of the foot and toe of such stockings of white thread, and as such portions of the stocking are subjected to the greatest wear, the stocking is made more durable by doing this. Such stockings are also thought to be more sanitary as the part of the stocking which comes in contact with the foot with the greatest pressure is undyed, and therefore the dye will have little or no injurious effect upon the wearer.

My present invention is designed to accomplish these results by a different means and also to bring about other desirable results not heretofore produced in the manufacture of hosiery.

In the drawings Figure 1 is a view in elevation of a stocking embodying my invention. Fig. 2 is a view partly in section to show the interior of the foot of the stocking. Fig. 3 is a diagram showing the threads as they appear in the foot of the stocking after knitting. Fig. 4 is a like view showing the float threads removed.

In knitting my improved stocking, I knit the stocking with a thread of the desired character down to the heel. In proceeding to knit the heel, an additional thread of a different character is thrown in and such thread is plaited so that the white thread appears only on the inside of the stocking. When the heel is completed, knitting with the same threads is continued, the additional thread being knitted only across the portion of the web which is to be the foot of the

stocking, such thread being plaited as in the heel and floated across the part of the web which will form the top of the foot of the stocking. When foot is completed the toe of the stocking is knitted in the same manner as the heel. In the drawings I have shown a stocking knit of colored and white or undyed yarn to produce the results attained in the white soled or split foot stocking.

In the drawings A is the leg of the stocking, a the heel, and a' the toe of the stocking. b is the bottom and b' is the top of the foot of the stocking.

In Figs. 3 and 4, y is the thread forming the leg and top of the foot of the stocking, and x is the additional sanitary or white thread. x' is the portion of the additional thread floated from one side of the web to the other over the top of the foot of the stocking. x² x² are the ends of the float thread after the main portion of the float has been removed.

In Fig. 2, b² is the plaited inner part of the foot of the stocking, which beginning with the heel extends along the bottom side of the foot, and throughout the whole of the toe of the stocking. It will thus be seen that the main portion of the stocking, the leg and top of the foot of the stocking are made of one character of yarn and that the heel bottom of the foot and the toe of the stocking are made of the same yarn strengthened by the addition of another thread, which addition increases the wearing capacity of those parts. It will also be seen that these strengthened portions of the stocking are provided with an inner surface of a different character from that of the other parts of the stocking, and that this surface is the surface that comes in contact with the foot of the wearer with the greatest pressure, and that when the stocking is made with the added thread of undyed or sanitary yarn all the advantages of a white solid or a "split-foot stocking" are secured.

While I have shown my invention as applied to a seamless stocking I do not desire to be limited to this class of stockings as I propose to use my said invention in the manufacture of all varieties of stockings irrespective of the style of the stocking or the character of the machines upon which they are made. Stockings having the heel, bottom of the foot and toe made of white thread when used often become stained by the

leather of the shoe and this stain is not wholly removed by washing. Such stockings thereafter, though clean, present a soiled and unsightly appearance. The stockings made as herein described, have the exterior of the heel, sole and toe of a color so nearly that of the main portion of the stocking that they do not show this discoloration and thus an objectionable feature of the "split-foot" stocking is removed, while possessing all the advantages of such goods, together with the advantages of a reinforced or "spliced" stocking.

In carrying out my invention I may begin the plaiting of the additional thread on the back of the leg above the heel so as to give additional strength and wearing capacity to the ankle of the stocking above the heel after the manner of the goods known as "high spliced" stockings. This secures the result sought by the "high splice" construction without introducing an additional splicing thread.

What I claim and desire to secure by Letters Patent is

1. A stocking made of a dyed thread of one character and having an undyed thread knitted into the bottom of the foot, said additional thread being plaited so as to appear on and form the inner surface of the bottom of the foot, substantially as described.

2. A stocking having the leg and top of the foot of the stocking made from a dyed thread, and the bottom of the foot made of the same thread and an additional undyed thread, said additional thread being plaited so as to appear upon and form the inner surface

of the bottom of the foot of the stocking, substantially as described.

3. A stocking having the leg and top of the foot composed of a dyed thread and the heel bottom of the foot and toe formed from thread of the same character and an additional undyed thread, the said additional thread being plaited so as to appear upon and form the inner surface of the heel bottom of the foot, and toe of the stocking, the outer surface of the stocking being of one uniform character of thread throughout, substantially as described.

4. A stocking having the leg and top of the foot composed of a common or ordinarily dyed yarn and the heel bottom of the foot and toe of the stocking composed of thread or yarn of the same character and an additional undyed thread or yarn, said additional yarn being plaited so as to appear upon and form the inner surface of the heel bottom of the foot and toe of the stocking, substantially as described.

5. A stocking composed of colored thread, and a white thread, the said white thread being plaited upon the inside of the web at the heel bottom of the foot and toe of the stocking to form the inner surface of the stocking at those points, substantially as described.

In testimony whereof I affix my signature, in the presence of two witnesses.

JOHN WYCKOFF METTLER.

Witnesses:

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HARRY R. BLAINE.