

(No Model.)

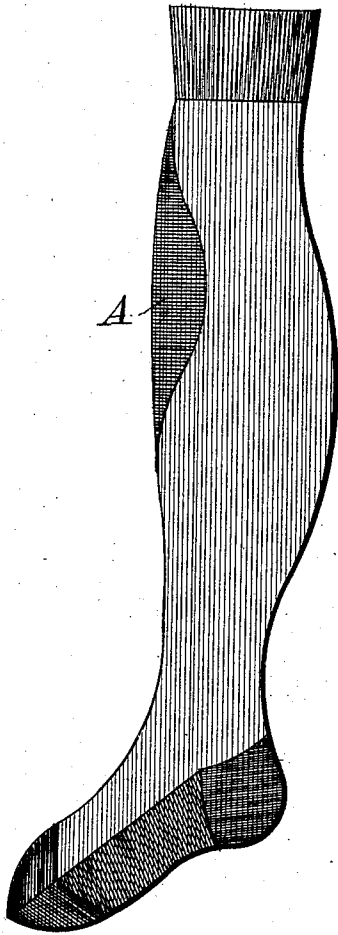
W. GODDARD.

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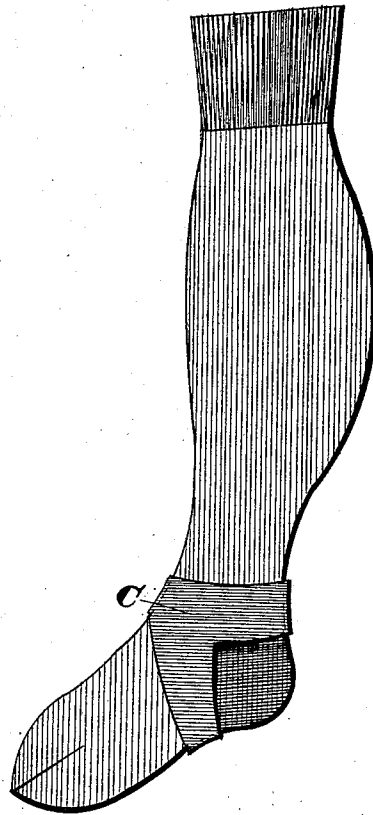
No. 294,779.

Patented Mar. 11, 1884.

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*Phil. Dörnerich.*  
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*Inventor:*

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# UNITED STATES PATENT OFFICE.

WILLIAM GODDARD, OF NEWARK, NEW JERSEY.

## ARTICLE OF KNITTED OR WOVEN WEAR.

SPECIFICATION forming part of Letters Patent No. 294,779, dated March 11, 1884.

Application filed September 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GODDARD, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Articles of Knitted or Woven Wear; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a view of a stocking as treated by my improved method. Fig. 2 is a view of part of a stocking, showing a shield which is adapted for use in the preparation of the stocking or sock.

This invention has for its object the strengthening or re-enforcing of certain parts of socks, stockings, gloves, and other wearing-apparel, which are subjected to the greatest wear without filling up the interstices between the yarns in the woven or knit fabric; and the nature of my invention consists in the material strengthened by saturating it at the wearing points, leaving the less wearing parts more pliable, as will be fully understood from the following description and the annexed drawings.

As one practical exemplification of my invention, I have illustrated in the annexed drawings a stocking as one article of wearing-apparel which I improve by my invention, although it will be obvious from the following description that my invention is applicable to gloves, to pantaloons, and, in fact, to every article of wearing-apparel where certain parts are subjected to strain and consequent wear.

The knee A of the stocking which I illustrate, the heel, and the toe parts thereof are, it is well-known, more liable to abrasion and wear than some of the other parts. This being the case, I strengthen these parts preferably by a solution or mixture of the following ingredients: Formula—shellac, two pounds; dragon's blood, one-half pound; resin, one-half pound; gum-kauri, one-half pound; paraffine, one-half pound; rosin, one-fourth pound; mastic, one-fourth pound; gum-sandarac, one-fourth pound; copal, one-fourth pound; glycerine, one-eighth pound; beeswax, one-fourth pound; coach-oil, one-eighth pound; caout-

chouc, one-fourth pound; celluloid, one-fourth pound. Dissolve. These proportions are found best adapted for fabrics of medium weight or substance, but the proportions may be varied without changing the principle of my invention. For heavier fabrics I increase the quantity of shellac, so as to make the compound stronger and more protective and durable.

For lighter goods, I reduce the quantity of shellac and increase the quantity of paraffine and kauri, thus making the composition more delicate, more elastic, and best adapted for the nature of the fabric to which it is applied.

As an example of one practical mode of carrying out my invention, I will state that I apply, by sponging, painting, or otherwise, the compound to those parts of, say, a stocking, which are most liable to wear—for instance, the heel, foot, bottom, toe, and knee, or to either one of these parts, leaving those parts which are less liable to wear untreated.

In the case of gloves, I may apply the compound to the inside of the palms and fingers, or in some instances I may treat the entire glove.

It is not necessary to give further illustrations of the mode of carrying out my invention further than to state that I may and prefer to use a shield, C, to cover and protect those parts of the stocking or other article of clothing which it is desired to strengthen or re-enforce.

I have described the rubbing-in or painting of the solution in the treatment of certain parts of the sock or other article of wearing-apparel, but the same result may be substantially obtained by dipping parts of the stocking or other garment into the strengthening solution.

My object is not especially to render a fabric water-proof, but to strengthen it at those points which are most liable to wear and tear; hence, I contemplate by my invention to treat the yarns or threads with the strengthening material before they are woven or knit into an article of clothing.

It will be seen from the above description that I apply a strengthening material to those parts of an article of wearing apparel which are most liable to wear out, leaving those parts which are not subjected to undue wear un-

treated. I thus combine in a single article of wearing-apparel the comparatively rigid and durable features with the free or comparatively pliable feature.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A woven or knit garment having those parts of it which are subjected to the greatest wear and tear re-enforced or rendered durable by a

strengthening solution, other parts being left untreated, substantially in the manner and for the purposes described.

In testimony that I claim the foregoing as my own I affix my signature in presence of 15 two witnesses.

WILLIAM GODDARD.

Witnesses:

F. ROBOTHAM,

J. O. FITZ GERALD.