Feb. 4, 1941. C. L. EVANS 2,230,291

STRETCHABLE WATERPROOF LEGGING

Filed Dec. 5, 1939

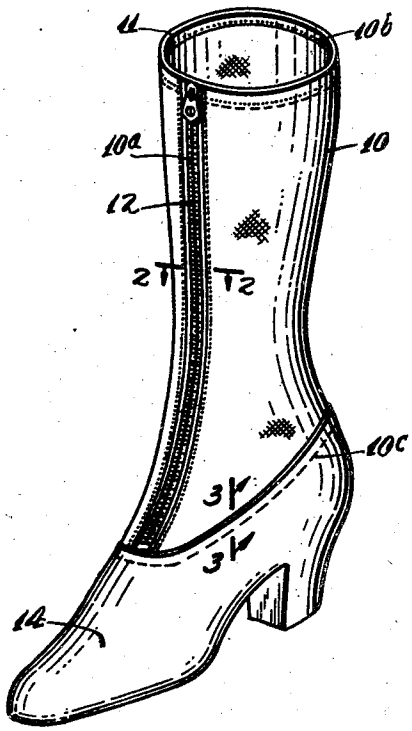


Fig. 1.



Fig. 2.

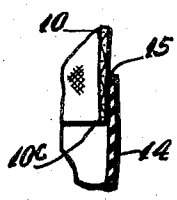


Fig. 3.

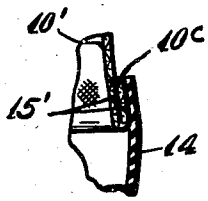


Fig. 4.

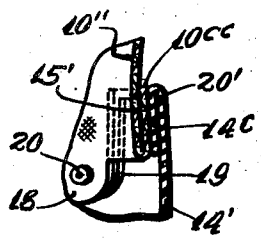


Fig. 7.

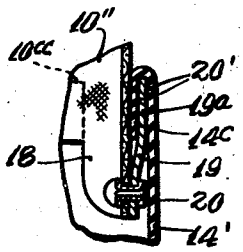


Fig. 8.

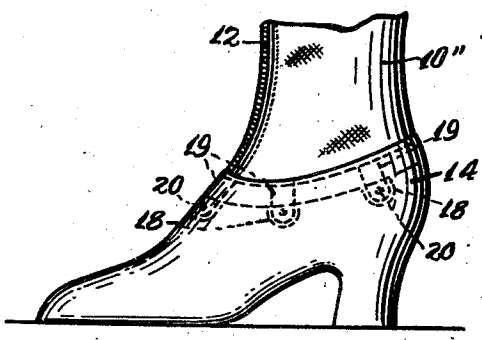


Fig. 5.

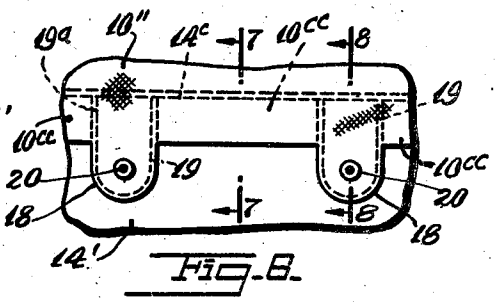


Fig. 8.

INVENTOR
Clara Louise Evans
BY
ATTORNEY

Patented Feb. 4, 1941 2,230,291

UNITED STATES PATENT OFFICE

2,230,291

STRETCHABLE WATERPROOF LEGGING

Clara Louise Evans, New York, N. Y.

Application December 5, 1939, Serial No. 307,575

5 Claims. (Cl. 36—7.3)

This invention relates to new and useful improvements in a legging.

The invention has for an object the construction of a legging which is characterized by a hollow cylindrical legging body of stretchable cloth material, and a rubber shoe covering member attached on the bottom of the legging body for engaging over the shoe.

More specifically, the invention contemplates arranging the legging body with an opening along one side from the bottom edge to the top edge, and furthermore proposes the provision of a fastener for closing said opening.

Still further the invention proposes a novel construction for attaching the said rubber shoe covering member upon the bottom of the legging body.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of a legging constructed in accordance with this invention.

Fig. 2 is a fragmentary enlarged horizontal sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a fragmentary sectional view similar to Fig. 3 but illustrating a modified construction.

Fig. 5 is a fragmentary side elevational view of a legging constructed according to another modified form of this invention.

Fig. 6 is a fragmentary enlarged inside elevational view of a portion of the legging shown in Fig. 5, illustrating particularly an area between the legging body and the rubber shoe covering member.

Fig. 7 is a fragmentary sectional view taken on the line 7—7 of Fig. 6.

Fig. 8 is a fragmentary sectional view taken on the line 8—8 of Fig. 6.

The legging, in accordance with this invention, includes a hollow cylindrical legging body 10 of stretchable cloth material open along the front 10^a from the bottom edge to the top edge. Fasteners 12 are provided for closing this open side. These fasteners are in the form of the conventional slide controlled hook fastener. At the top the legging body 10 has a top edge portion 10^b turned downwards and secured in this position by a line of stitches 11. A rubber shoe covering member 14 is attached to the bottom of the said legging body 10.

The rubber shoe covering member 14 is in the form of a rubber element adapted to engage over the shoe. The legging is particularly intended to be worn during wet and stormy weather. A novel arrangement is used in securing the shoe covering member 14 to the bottom of the legging body 10. More specifically, the legging body 10 has a bottom edge portion 10^c which engages inside the top edge portion of the shoe covering member 14. The adjacent contacting faces of these parts are secured together with adhesive material 15.

A weather strip 13 is extended along behind the slide controlled hook fastener 12 for protecting one's legs at this area. This weather strip 13 is secured along one of its sides by lines of stitches 13^a to the material to one side of the opening 10^a. The strip 13 also serves to hold the hook elements of the slide controlled hook fastener from engaging against one's hose.

In Fig. 4 a modified arrangement of the legging is disclosed which distinguishes from the prior form in the fact that the legging body 10' has a bottom edge portion 10^{cc} bent upwards and disposed immediately adjacent the inner face of the top edge of the rubber shoe covering member 14. The adjacent contacting faces of these parts are secured together with adhesive material 15'. In other respects this form of the invention is similar to the previous form and like parts may be identified by like reference numerals.

In Figs. 5 to 8 inclusive another modified form of the invention has been disclosed which particularly distinguishes from the prior forms in the means by which the rubber shoe covering member 14' is attached to the bottom of the legging 10''. In this form of the invention the bottom edge of the legging 10'' is provided with a plurality of downwardly projecting portions 18 spaced from each other and cut out from the upturned bottom edge portion 10^{cc} of the body 10'' and which is attached to the adjacent material of the body 10'' by adhesive 15'. Each downwardly projecting portion is attached to a rigid tab 19 which extends upwards.

A fastening element 20 engages through each tab 19 at the adjacent downwardly projecting portion 18 for rigidly connecting these parts together. The upper end 19^a of each rigid tab 19 engages into a fold formed upon the top of the rubber shoe covering member 14'. More specifically, this member 14' has a top edge portion 14^c bent downwards. The upper end 19^a of the rigid tab 19 engages behind this downturned portion

14c. The adjacent contacting parts are secured together with cement 20' or similar adhesive material.

An important feature of the construction resides in the fact that the strain upon the junction between the shoe covering member and the bottom of the legging is transferred directly from one part to the other without relying on the adhesive binding material. When the legging body 10'' is pulled upwards to pull the rubber shoe covering member 14' upon the shoe, the strain at the junction of these parts will be transmitted by the downwardly projecting portions 18 to the rigid tabs 19 and then upwards against the fold formed by the inturned edge portion 14c at the top of the shoe covering member 14'. The stress on the adhesive 20' will only be incidental and not direct since the stress is directly taken by the parts 18, 19 and the bend formed by the edge portions 14c.

It is to be understood that the legging may be made in different shapes and sizes not only for women but also to fit men and children, in any color and surface design.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A legging, comprising a hollow cylindrical legging body having its bottom edge portion turned upwards along the outside face thereof, a rubber shoe covering member having its top edge portion turned downwards along the inside face thereof, said body having its bottom end extending into the top of said member causing the adjacent faces of said downwardly turned top edge portion and said upwardly turned bottom edge portion to contact each other, extensions cut from the upwardly turned bottom edge portion of said legging body and extended downwards beyond the bottom edge of the downwardly turned top edge of said member, and a rigid tab mounted on each of said extensions and extended upwards and engaging between the inside face of said downwardly turned top edge portion and the adjacent face of the body of said member.

2. A legging, comprising a hollow cylindrical legging body having its bottom edge portion turned upwards along the outside face thereof, a rubber shoe covering member having its top edge portion turned downwards along the inside face thereof, said body having its bottom end extending into the top of said member causing the adjacent faces of said downwardly turned top edge portion and said upwardly turned bottom edge portion to contact each other, extensions cut from the upwardly turned bottom edge portion of said legging body and extended downwards beyond the bottom edge of the downwardly turned top edge of said member, and a rigid tab mounted on each of said extensions and extended upwards and engaging between the inside face of said downwardly turned top edge portion and the adjacent face of the body of said member, and means for securely attaching the bottom ends of said tabs to the adjacent bottom ends of said extensions.

3. A legging, comprising a hollow cylindrical legging body having its bottom edge portion turned upwards along the outside face thereof, a rubber shoe covering member having its top edge portion turned downwards along the inside face thereof, said body having its bottom end extending into the top of said member causing the adjacent faces of said downwardly turned top edge portion and said upwardly turned bottom edge portion to contact each other, extensions cut from the upwardly turned bottom edge portion of said legging body and extended downwards beyond the bottom edge of the downwardly turned top edge of said member, and a rigid tab mounted on each of said extensions and extended upwards and engaging between the inside face of said downwardly turned top edge portion and the adjacent face of the body of said member, and means for securely attaching the bottom ends of said tabs to the adjacent bottom ends of said extensions, comprising rivets engaged through the bottom ends of said tabs and extensions.

4. A legging, comprising a hollow cylindrical legging body having its bottom edge portion turned upwards along the outside face thereof, a rubber shoe covering member having its top edge portion turned downwards along the inside face thereof, said body having its bottom end extending into the top of said member causing the adjacent faces of said downwardly turned top edge portion and said upwardly turned bottom edge portion to contact each other, extensions cut from the upwardly turned bottom edge portion of said legging body and extended downwards beyond the bottom edge of the downwardly turned top edge of said member, and a rigid tab mounted on each of said extensions and extended upwards and engaging between the inside face of said downwardly turned top edge portion and the adjacent face of the body of said member, said tabs having their top ends cemented to the adjacent faces of said downwardly turned top edge portion and the body of said member.

5. A legging, comprising a hollow cylindrical legging body having its bottom edge portion turned upwards along the outside face thereof, a rubber shoe covering member having its top edge portion turned downwards along the inside face thereof, said body having its bottom end extending into the top of said member causing the adjacent faces of said downwardly turned top edge portion and said upwardly turned bottom edge portion to contact each other, extensions cut from the upwardly turned bottom edge portion of said legging body and extended downwards beyond the bottom edge of the downwardly turned top edge of said member, and a rigid tab mounted on each of said extensions and extended upwards and engaging between the inside face of said downwardly turned top edge portion and the adjacent face of the body of said member, and said upwardly turned bottom edge portion being cemented to the adjacent face of said downwardly turned top edge portion forming a water tight seal.

CLARA LOUISE EVANS.