Jan. 3, 1939. H. B. RICHARDS 2,142,981

GALOSH

Filed Nov. 10, 1937

Fig. 1.

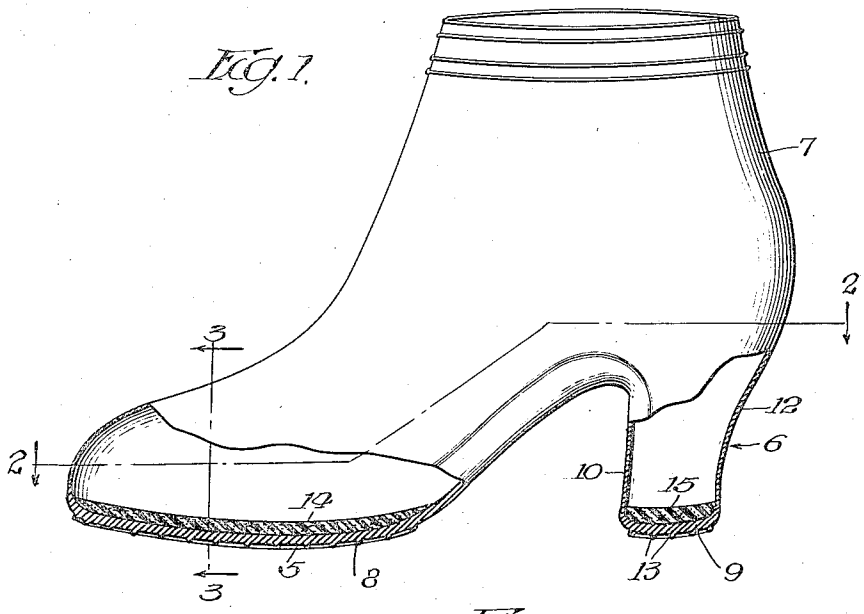


Fig. 2

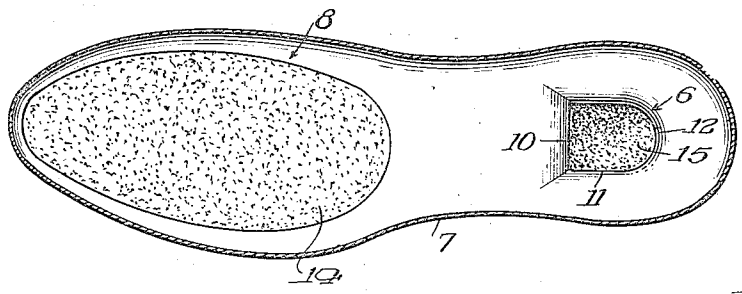


Fig. 4

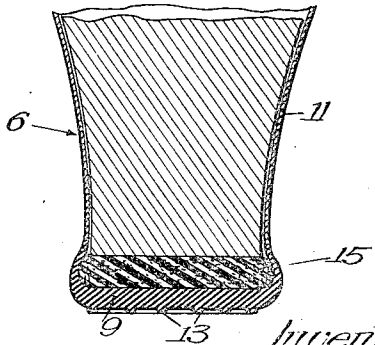
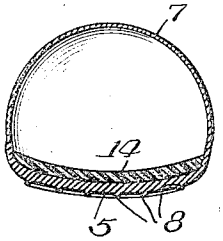


Fig. 3



Inventor:-
Harvey B. Richards
By Fred Gerlach
his Atty.

Patented Jan. 3, 1939 2,142,981

UNITED STATES PATENT OFFICE

2,142,981

GALOSH

Harvey B. Richards, Lake Bluff, Ill., assignor to Richards, Boggs & King, Inc., Chicago, Ill., a corporation of Delaware

Application November 10, 1937, Serial No. 173,781

6 Claims. (Cl. 36—7.3)

The present invention relates generally to galoshes for use in wet or inclement weather as a protecting medium against wetting or soiling of the wearer's feet and shoes. More particularly the invention relates to that type of galosh which is formed of highly elastic rubber latex and consists of a thickened sole part, a cup-shaped heel part with a thickened bottom, and an open top upper part for encasing the upper of the wearer's shoe and protecting the wearer's instep and ankle.

In practice it has been found that in the use of a galosh of the aforementioned type the bottom edges of the sole and heel of the wearer's shoe engage the rubber latex portions directly above the margins of the sole part and heel part bottom of the galosh and that as a result of such engagement and the usual twisting or sidewise movement accompanying placement of the wearer's foot to the ground in connection with walking or running, such rubber latex portions soon become cut or sheared and as a result the galosh fails in a short length of time to fulfill its intended purpose.

The primary object of the present invention is to provide a galosh of the type under consideration which is more durable and practical than previously designed galoshes of the same general character by reason of the fact that it includes simple means whereby the bottom edges of the sole and heel of the wearer's shoe are prevented from cutting or shearing the rubber latex portions directly above the margins of the sole part and heel part bottom.

Another object of the invention is to provide a galosh of the last mentioned character in which the means for preventing the bottom edges of the sole and heel of the wearer's shoe from cutting or shearing the rubber latex portions directly above the margins of the sole and heel part bottom of the galosh consists of comparatively thin pads of sponge rubber which overlie and are shaped conformably to the inner faces of the sole part and heel part bottom of the galosh and are adapted to have the edges of the sole and heel of the wearer's shoe embedded therein and in addition to expand laterally and space such edges from the adjacent rubber latex portions in response to the application of pressure thereagainst resulting from placement of the wearer's foot to the ground.

A further object of the invention is to provide a galosh of the type and character heretofore mentioned which is generally of new and improved construction and not only is extremely light in weight and capable of being stored in a small compartment or space but also may be produced at a low and reasonable cost.

Other objects of the invention and the various advantages and characteristics of the present galosh will be apparent from a consideration of the following detailed description.

The invention consists in the several novel features which are hereinafter set forth and are more particularly defined by claims at the conclusion hereof.

In the drawing which accompanies and forms a part of this specification or disclosure and in which like numerals of reference denote corresponding parts throughout the several views:

Figure 1 is a side elevation of a galosh embodying the invention, with parts broken away and shown in section for purposes of illustrating the design and construction of the sole and heel parts of the galosh;

Figure 2 is a horizontal sectional view taken on the line 2—2 of Figure 1 and showing the design and character of the sponge rubber pads which overlie and are shaped conformably to the sole part and the heel part bottom of the galosh and serve when the galosh is on the wearer's foot to prevent the bottom edges of the sole and heel of the wearer's shoe from cutting or severing the adjacent or contiguous rubber latex portions of the galosh;

Figure 3 is a vertical transverse section taken on the line 3—3 of Figure 1 and illustrating the cross-sectional design of the front portion of the galosh upper and also the cross-sectional construction of the pad on the inner face of the sole part of the galosh; and

Figure 4 is an enlarged vertical transverse sectional view of the heel part of the galosh showing a heel therein and illustrating the manner in which the pad over the heel part bottom is compressed and expanded laterally in response to pressure of the heel into a position wherein it receives the bottom edges of the heel and prevents such edges from engaging and cutting the adjacent rubber latex portions.

The galosh which is shown in the drawing constitutes the preferred embodiment of the invention. It is adapted to cover the wearer's shoe and when worn in wet or inclement weather, as intended, serves to protect the wearer's shoe as well as the wearer's foot including the instep and ankle, against wetting or soiling. As shown in the drawing the galosh comprises a sole part 5, a heel part 6, and an upper part 7. These parts are formed integrally with one another and are made or formed of highly elastic rubber latex.

The sole part 5 is adapted to underlie the sole of the wearer's shoe and is slightly heavier or thicker than the upper part 7 of the galosh, as shown in Figures 1 and 3. Ribs 8 are formed on the bottom face of the front portion of the sole part and serve to prevent the galosh from slipping or skidding when brought into contact with wet ground. The rear portion of the sole part 5 is adapted to underlie the arch portion of the sole of the wearer's shoe and joins the front portion of the heel part 6 of the galosh. Said heel part consists of a thickened bottom 9, a front 10, a pair of sides 11, and a back 12, which together define a cup or socket for the heel of the wearer's shoe. The bottom 9 is adapted to underlie the bottom of the heel of the wearer's shoe and embodies ribs 13 on the bottom face thereof for preventing skidding of the heel part of the galosh when it is placed against wet ground or pavement. The front 10 extends substantially vertically and it and the sides and back are of the same thickness as the upper part 7 of the galosh. The sides 11 extend between and are jointed to the side margins of the front 10 and the back 12. The upper part 7 of the galosh embodies an open top and is adapted to encase the wearer's shoe as well as cover the instep, ankle and heel of the wearer's foot. The front portion of the upper part 7 is adapted to overlie and cover the toe and vamp of the wearer's shoe and the rear portion of said upper part 7 is adapted to surround the back and ankle portions of the wearer's shoe. The top or upper margin of the upper part 7 is suitably reinforced and is adapted when stretched to provide a sufficient opening to permit the wearer of the galosh to apply the galosh readily over the shoe. The galosh is preferably formed by dipping a properly shaped form in liquid latex rubber to provide a coating or film around the form. Such film, after hardening, is stripped from the form and constitutes the galosh. All parts or portions of the galosh with the exception of the sole part 5 and the heel part bottom 9 are of uniform thickness throughout. They are of such thinness, however, that they are highly elastic and the galosh, as a whole, is light in weight.

In addition to the sole, heel and upper parts, the galosh comprises a pair of pads 14 and 15. These pads serve as cushions and, as hereinafter described, effectively prevent cutting of the latex rubber portions directly above the sole part and heel part bottom by the bottom edges of the sole and heel of the wearer's shoe.

The pad 14 is formed of sponge rubber and is shaped conformably to the front portion of the sole part 5 of the galosh. It overlies and fits directly against the inner face of such portion of the sole part and is adapted to have the sole of the wearer's shoe rest directly on the bottom face of the pad 14 and is adhesively secured to the inner face of the front portion of the sole part 5 by a coating of rubber cement or like material so that it is not loose within the galosh. The marginal portion of the pad 14 is adapted, when the galosh is in its operative position, to receive the bottom edges of the sole of the wearer's shoe and when placed under compression or pressure as the result of placement of the wearer's foot to the ground to expand and thus space the adjacent or contiguous rubber latex portions of the galosh from said bottom edges of the sole of the wearer's shoe and prevent them from being cut or severed. In addition to preventing the galosh from being cut by the bottom edges of the sole of the wearer's shoe, the pad 14 serves as a cushion for the ball of the wearer's foot. Said pad 14 is preferably about one-eighth of an inch in thickness and approximately half again as thick as the sole part 5 of the galosh.

The pad 15, like the pad 14, is formed of sponge rubber. It overlies and is shaped conformably to the inner face of the bottom 9 of the heel part 6 of the galosh and is adhesively secured in place by way of a coating or rubber cement or like material on its bottom face. The marginal portions of the pad 15 abut against the lower margins of the front, sides and back of the heel part 6 and are adapted when the galosh is in its operative position to receive the bottom edges of the heel of the wearer's shoe and in response to compression of the pad resulting from placement of the wearer's foot to the pavement to expand and space said lower margins of the front, sides and back of the heel part away from the bottom edges of the shoe heel as shown in Figure 4. As a result of the action of the marginal portions of the pad 15 the heel of the wearer's shoe is prevented from cutting or severing the adjacent portions of the rubber latex. When the foot of the wearer of the galosh is placed to the ground or pavement there is a tendency for it to twist or move sidewise. As a result of the cushioning property of the pad 15 the resultant twisting of the heel of the wearer's shoe is absorbed to the point where is does not affect the lower portion of the heel part 6 of the galosh, that is, the bottom and the lower or bottom margins of the front, sides and back. The pad 15 is preferably the same in thickness as the pad 14 and is approximately half again as thick as the heel part bottom 9.

The galosh is applied by first stretching the top margin of the upper part 7 so as to enlarge the opening at the top of said part. While said upper margin is so stretched the foot of the wearer is inserted into the galosh in such manner as to bring the toe of the shoe into the front portion of the upper part 7 and the heel into the cup or socket in the heel part 6 of the galosh. When the galosh is properly in place around the wearer's shoe it serves to protect the instep, back and ankle of the wearer's foot and the pads 14 and 15 underlie the sole and heel of the wearer's shoe respectively. When the galosh is brought into contact with the ground in connection with walking or running the bottom edges of the sole and heel of the wearer's shoe embed themselves in the marginal portions of the pads 14 and 15, as hereinafter described, and such margins expand to where they space the contiguous latex portions from such edges and prevent severing and cutting.

The herein described galosh may be manufactured at a comparatively low and reasonable cost and is extremely durable or long lasting inasmuch as it includes the sponge rubber sole and heel pads 14 and 15.

The invention is not to be understood as restricted to the details set forth, since these may be modified within the scope of the appended claims, without departing from the spirit and scope of the invention.

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

1. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a sole part, a heel part, and an open top upper part, all joined together and forming a unit and made of highly elastic single thickness rubber, and a pad of sponge rubber secured by an adhesive coating and shaped conformably to

the inner face of the sole part and adapted to receive and cushion the sole of the shoe and in response to pressure exerted thereagainst to have the margins thereof expand outwards and so space the contiguous portions of the galosh from the bottom edge of the shoe sole that cutting or severing of such portions is prevented.

2. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a thickened sole part, a heel part, and an open top upper part, all joined together in a unitary manner and made of highly elastic single thickness rubber latex, and a pad of sponge rubber fitting against and anchored to the inner face of the sole part and adapted to receive and cushion the sole of the shoe and in response to pressure exerted thereagainst to have the margins thereof expand outwards and so space the contiguous portions of the galosh from the bottom edge of the shoe sole that cutting or severing of such portions is prevented.

3. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a sole part, a cup-shaped heel part with a bottom, and an open top upper part all joined together to form a unit and made of highly elastic single thickness rubber, and a pad of sponge rubber secured by an adhesive coating and shaped conformably to the inner face of the bottom of the heel part and adapted to receive and cushion the heel of the shoe and in response to pressure exerted thereagainst to have the margin thereof expand outwards and so space the contiguous portions of the heel part of the galosh from the bottom edge of the shoe heel that cutting or severing of such portions is prevented.

4. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a sole part, a cup-shaped heel part with a thickened bottom, and an open top upper part, all formed integrally and made of highly elastic single thickness rubber latex, and a pad of sponge rubber secured against and shaped conformably to the inner face of the bottom of the heel part and adapted to receive and cushion the heel of the shoe and in response to pressure exerted thereagainst to have the margin thereof expand outwards and so space the contiguous portions of the heel part of the galosh from the bottom edge of the shoe heel that cutting or severing of such portions is prevented.

5. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a sole part, a cup-shaped heel part with a bottom, and an open top upper part all joined together in a unitary manner and made of highly elastic single thickness rubber, and a pair of sponge rubber pads fitting against and secured to inner faces of the sole part and heel part bottom respectively, and adapted to receive the sole and heel of the shoe and in response to pressure exerted thereagainst to have the margins thereof expand outwards and so to space the contiguous portions of the galosh from the bottom edges of the shoe sole and heel that cutting or severing of such portions is prevented.

6. As a new article of manufacture, a galosh adapted to enclose and protect a shoe and comprising a thickened sole part, a cup-shaped heel part with a thickened bottom, and an open top upper part formed integrally with one another and made of highly elastic rubber latex, and a pair of sponge rubber pads fitting against, and shaped conformably and secured adhesively to, the inner faces of the sole part and heel part bottom respectively, and adapted to receive the sole and heel of the shoe and in response to pressure exerted thereagainst to have the margins thereof expand outwards and so to space the contiguous portions of the galosh from the bottom edges of the shoe sole and heel that cutting or severing of such portions is prevented.

HARVEY B. RICHARDS.