E. W. DUNBAR.

RUBBER SOLED SHOE.

APPLICATION FILED DEC. 1, 1916.

1,226,318.

Patented May 15, 1917.

2 SHEETS—SHEET 1.

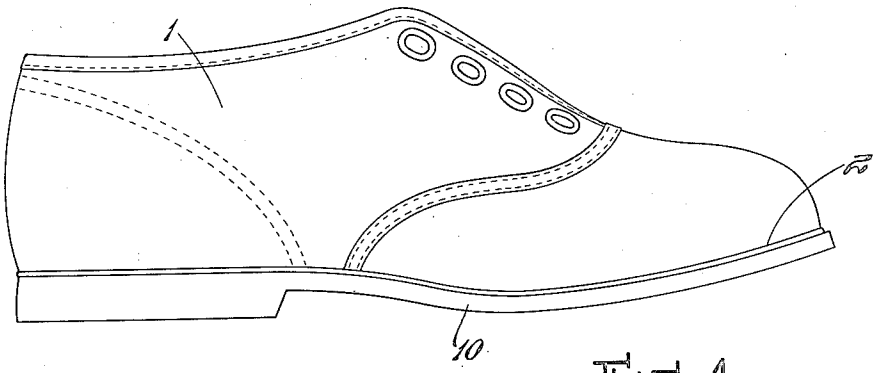


Fig. 1

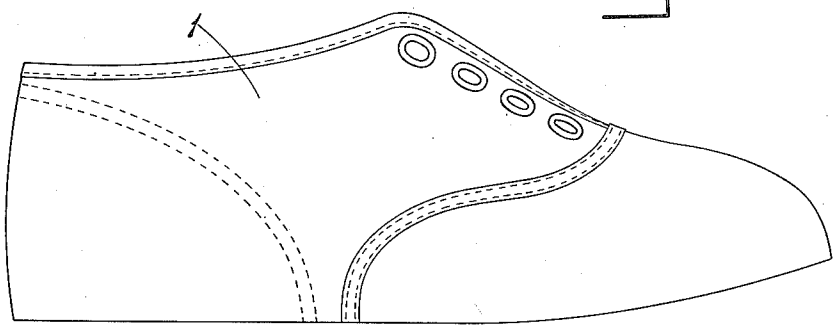


Fig. 2.

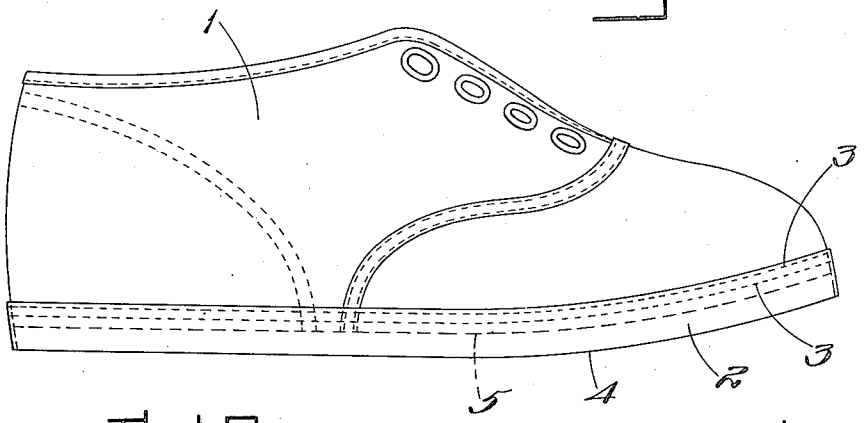


Fig. 3.

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2 SHEETS—SHEET 2.

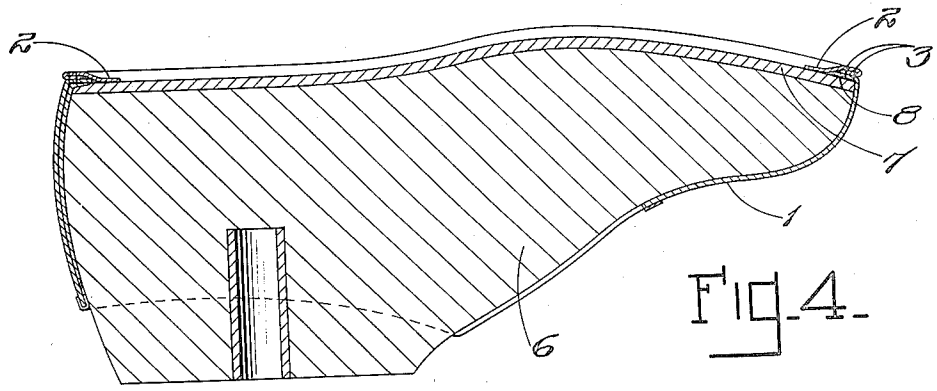


Fig. 4.

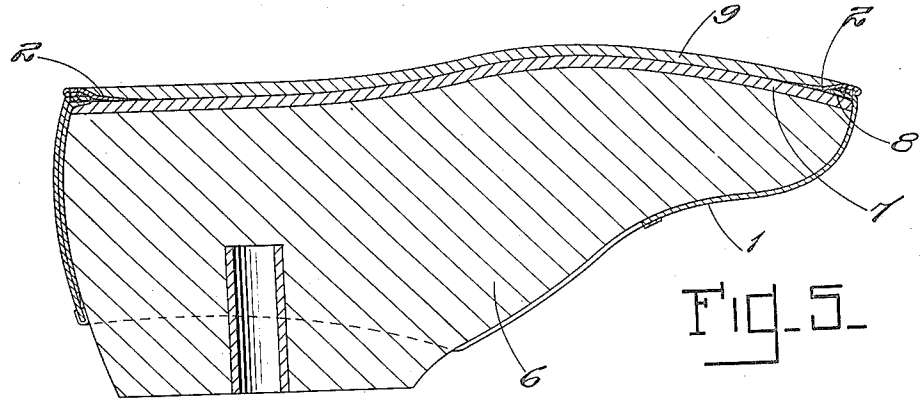


Fig. 5.

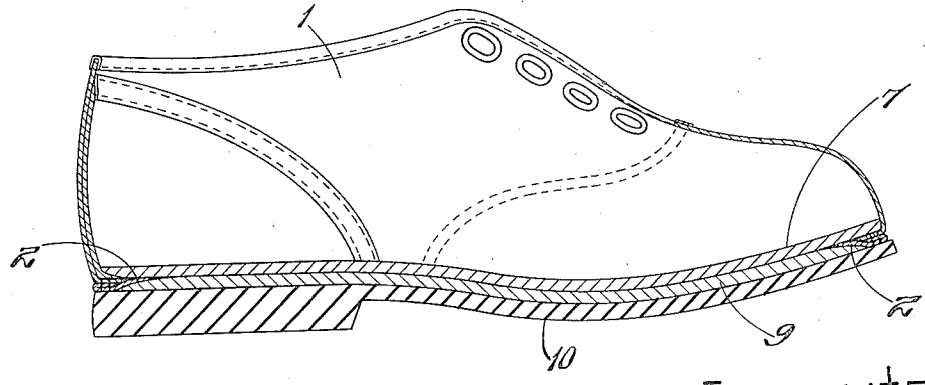


Fig. 6.

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UNITED STATES PATENT OFFICE.

ERNEST W. DUNBAR, OF HUDSON, MASSACHUSETTS, ASSIGNOR TO APSLEY RUBBER COMPANY, OF HUDSON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

RUBBER-SOLED SHOE.

1,226,318.

Specification of Letters Patent. Patented May 15, 1917.

Application filed December 1, 1916. Serial No. 134,252.

To all whom it may concern:

Be it known that I, ERNEST W. DUNBAR, citizen of the United States, residing at Hudson, in the county of Middlesex, State of Massachusetts, have invented a certain new and useful Improvement in Rubber-Soled Shoes, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an improvement in rubber soled shoes in which the upper is made of canvas, duck, or similar material.

In shoes of this character as usually constructed, after the top is prepared by the stitcher it is treated with a coating of cement about one-half an inch wide on the inside of the top and around the outer edge. It is then put on the last and lasted to an inner sole. It is then leveled with a filling sole and then cement is applied to the outer face of the canvas top for a distance of about one-half or seven-eighths of an inch above the edge of the last. A rubber strip is then attached to this cemented portion, lapping on to the filler about one-quarter of an inch all the way around, and the outer sole is then attached to the said lapped in portion of the rubber strip and to the filler. With a shoe thus constructed the rubber strip extends up on the canvas top for some distance, say about one-half an inch above the outer sole all the way around. This makes an unsightly appearance, due to the exposure of the rubber strip, and also it has a very heating effect on the foot of the wearer. Also the upper edge of the rubber strip frequently becomes uncemented or separates from the canvas in places, thereby making a still more unsightly appearance, and, too, in applying the cement which unites the rubber strip to the canvas top the cement oftentimes becomes smeared on to the canvas above the upper edge of the strip.

The object of the present invention is to construct the shoe in such a manner that the rubber strip will not lap on to the canvas top at all, thereby avoiding all of the above mentioned objections which are due to the construction when the rubber strip laps on to the upper as above described.

The invention will be fully understood from the following description taken in connection with the accompanying drawings and the novel features thereof are pointed out and clearly defined in the claims at the close of this specification.

In the drawings, Figure 1 is a side elevation of a finished shoe embodying the invention.

Fig. 2 is a side elevation of the canvas top ready for the rubber or rubberized strip to be attached.

Fig. 3 is a side elevation of the top after the rubberized strip is attached thereto by sewing ready to be lasted.

Fig. 4 is a sectional view showing the canvas top on the last after being prepared as shown in Fig. 3 and with the inner sole attached thereto.

Fig. 5 is a sectional view showing the top after the filler has been attached to the inner sole.

Fig. 6 is a sectional view showing the finished shoe after the outer sole is attached and the shoe is removed from the last.

Referring now to the drawings, 1 represents the canvas top which is cut out and shaped and properly made up, to which is then stitched or otherwise attached by suitable fastenings a strip of rubberized cloth 2 of a suitable width, say from one-half to three-quarters of an inch wide. This strip of cloth 2 is rubberized on both sides. The upper edge of the cloth is turned in a short distance to make a fold, as shown in Fig. 4 so as to avoid a raw edge, and the lines of stitching 3 pass through both pieces of the folded portion and through the canvas top. The lower edge 4 of the strip preferably extends for a slight distance below the lower edge 5 of the canvas top. After being thus prepared the top is placed on a last 6 and lasted to the inner sole 7. It is secured to the inner sole by drawing the top tightly over the last, drawing over the lower edge of the canvas top and the rubberized strip so that there will be only a narrow portion of the rubberized strip exposed at the sides of the last, as shown in Fig. 4. The top will be secured to the inner sole by cement, as shown at 8 applied to the inner face of the canvas upper along near its edge and to the inner sole itself and a light coat to the inner face of the portion of the rubberized strip which laps on to the inner sole beyond the edge of the canvas top.

After the upper is attached to the inner

sole, a suitable filler 9, as of rubberized cloth, is applied to the inner sole to level it off with the canvas which laps on to the inner sole. The rubberized strip may lap partially on to the filler, and where it contacts with the filler it is cemented, but only a very thin coating of cement is used, whereas under the old method of forming the shoe, the rubber strip required two heavy coats of cement all over its inner face.

The shoe is now ready for the outer sole which has a coating of cement applied to the inner face thereof, and a thin coating of cement will be applied to the proximate face of the filler and that portion of the outer face of the rubber strip which is turned over on to the bottom. The outer sole 10 is then firmly cemented to the filler and to the said turned over portion of the rubber strip, as shown in Fig. 6. The outer sole preferably extends on all sides some distance outwardly beyond the exposed portion of the rubber strip so that the said exposed portion of the rubber strip is merely a narrow portion of the fold, which looks like a bead or welt, and the shoe has the appearance of a welted shoe. and there is no lap over portion of the rubber strip on the canvas top. The lap portion is all inside, lapped between the filler and the outer sole. After the cement is properly dried the shoe is vulcanized in the usual manner.

What I claim is:

1. A rubber soled canvas shoe having a canvas top, a rubber outer sole, an inner sole, and a strip of rubberized cloth having one edge extending in between the inner and outer soles, the other edge being secured to the top along the lower edge of the top and forming an exposed bead between the top and the outer sole.

2. A rubber soled canvas shoe having a canvas top, a rubber outer sole, an inner sole, and a strip of rubberized cloth folded over and secured through the fold to the top along the lower edge of the top in such position that when the shoe is completed the fold will form a bead between the top and the outer sole, the other edge of the strip extending in between the inner and outer sole and secured therein.

3. A rubber soled canvas shoe having a canvas top, a rubber outer sole, an inner sole, and a strip of rubberized cloth secured to the top along the lower edge of the top in such position that when the shoe is completed the rubberized strip lies between the inner sole and the outer sole with its outer edge exposed and forming a bead along the line of union between the top and the outer sole.

4. In a rubber soled canvas shoe, a canvas top, a rubber outer sole, an inner sole, a filling between the inner sole and the outer sole, and a strip of rubberized cloth folded over at one edge and secured by suitable fastenings through the fold to the outer face of said canvas top around the lower part thereof, the other edge of said rubberized strip extending in and being lasted between the said inner sole and outer sole, the said folded edge of the rubberized strip appearing in the finished shoe as a bead between the outer sole and the canvas upper.

5. A rubber soled canvas shoe having a canvas top, an inner sole, a rubber outer sole, and a strip of rubberized cloth folded over near one edge and secured to the outer face of the canvas top by suitable fastenings which pass through both thicknesses of the fold and through the canvas top leaving the edge of the fold exposed as a bead between the canvas top and the outer sole, the inner edge of the said rubberized strip extending inward farther than the folded edge and being lasted in between the inner sole and the outer sole.

In testimony whereof I affix my signature.

ERNEST W. DUNBAR.