May 13, 1930. B. M. WEIR 1,758,342

SHOE HAVING SEPARABLE SOLE AND UPPER

Filed June 17, 1929

Fig. 1.

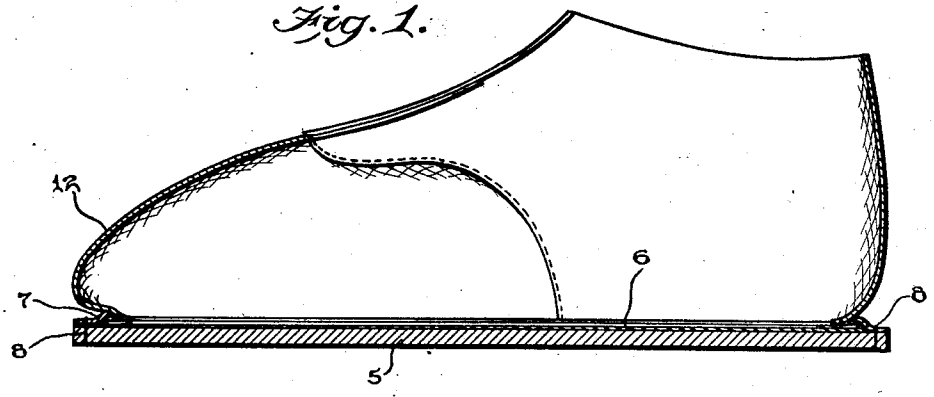


Fig. 2.

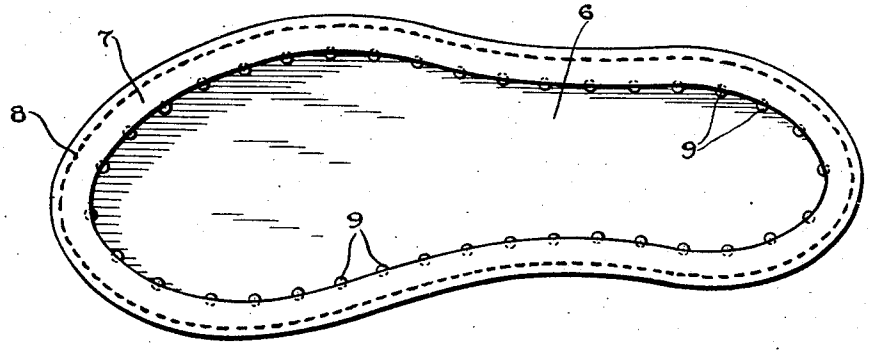


Fig. 4.

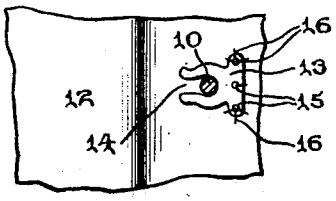
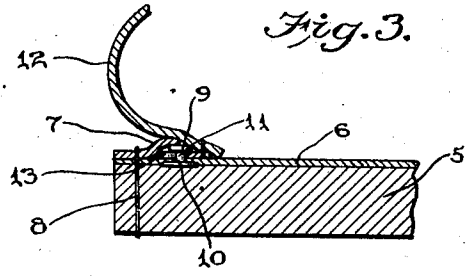


Fig. 3.



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Patented May 13, 1930 1,758,342

UNITED STATES PATENT OFFICE

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SHOE HAVING SEPARABLE SOLE AND UPPER

Application filed June 17, 1929. Serial No. 371,550.

This invention relates to shoes, and especially to an improved shoe having separable sole and upper. The invention is an improvement on the shoe patented by me on February 20, 1912, Number 1,018,145.

As specified in the above mentioned patent, the primary object is to provide a shoe which is "of particular utility in shoes for children, the uppers of which are quite soft and pliable and do not need to be accurately shaped to fit the foot". The primary object of the present invention is the same as for the patented invention referred to; but a further object is to improve upon the fastening means, and to render the invention more practical from a manufacturing standpoint.

Other objects and important features are pointed out or implied in the following details of description, in connection with the accompanying drawings in which:

Figure 1 is a longitudinal vertical section through a shoe embodying my invention.

Figure 2 is a top plan view of the sole and the parts which are permanently secured thereto.

Figure 3 is an enlarged transverse vertical sectional detail view.

Figure 4 is an enlarged detail view showing a fragment of the upper having one of the series of spring clips secured thereto.

Referring to these drawings in detail, in which similar reference characters correspond to similar parts in the several views, the out-sole 5 and in-sole 6 combine to form the sole of the shoe; and a flexible strip 7, preferably of leather, is stitched to the edge or margin thereof as indicated at 8.

A series of buttons or headed fasteners 9 are secured to the sole by any appropriate means. As shown in Figure 3, each button 9 is in the form of a collar-button, having a relatively wide base 10 and a shank 11 which latter secures the head to the base of each button. As here illustrated, the base 10 is between the out-sole 5 and the in-sole 6, while the shank extends through the in-sole. A strip 7 may either partly cover the buttons 9, as here shown, or may entirely cover them. Moreover, these buttons or headed fasteners may be of any appropriate form other than here shown, and may be secured to the sole in any appropriate way other than by means of the in-sole.

The upper 12 may be of fabric, chamois, kid or any appropriate material which is preferably very soft and pliable. A series of spring clips 13 is secured around the margin of the upper 12, and by reference to Figure 4, it will be seen that each of these spring clips is bifurcated at 14, and that the furcations thereof are curved in such manner that the inlet between them is somewhat choked. These clips are stamped from thin sheets of springy material, so the furcations spring outward to permit the shank of the respective button 10 to pass into its normal seat between the furcations. Moreover, each of these spring clips is apertured at the edge opposite to the furcations, as shown at 15, and stitches 16 pass through these apertures and through the upper so as to secure the clips to the upper.

Referring again to Figure 3, where one of the clips 13 is shown engaged with one of the buttons 9, it is very evident that the upper can be disengaged from the sole by merely pulling or pushing the margin of the upper toward the middle of the sole, thereby forcing the clips 13 out of engagement with the buttons 9. It is also evident that a reverse movement of the upper will move the clips 13 into engagement with the respective buttons 9.

I have no intentions of limiting my patent protection to the exact details of construction, arrangement or material, as shown by the drawings, for the invention is susceptible of changes within the scope of the inventive ideas herein implied and claimed.

What I claim as my invention is:

1. In a shoe having a separable sole and upper, the combination of a continuous strip around the margin of the sole and secured thereto, a series of buttons around said margin and at least partly covered by said strip, and a series of bifurcated clips secured to the margin of said upper and normally straddling the respective buttons and combining therewith to removably secure the upper to the sole.

2. In a shoe having a separable sole and upper, the combination of an out-sole, an insole secured to the out-sole, a continuous strip secured to the margin of the out-sole and insole, a series of spaced buttons around said margin and at least partly under said strip, and a series of bifurcated clips secured to the margin of the upper and each straddling one of said buttons and combined therewith to removably secure the upper to the sole.

3. In a shoe having a separable sole and upper, the combination of an out-sole, an insole secured to the out-sole, a continuous strip secured to the margin of the out-sole and insole, a series of spaced buttons around said margin and at least partly under said strip, each of said buttons being secured to the insole and having a shank extending through the latter, and a series of bifurcated and apertured spring clips secured to the margin of the upper by stitches through its apertures, each spring clip straddling the shank of one of said buttons and combining therewith to removably secure the upper to the sole.

In testimony whereof I affix my signature.

BERTHA M. WEIR.