Sept. 21, 1937. H. M. DODGE 2,093,908

BATHING SANDAL

Filed April 29, 1935

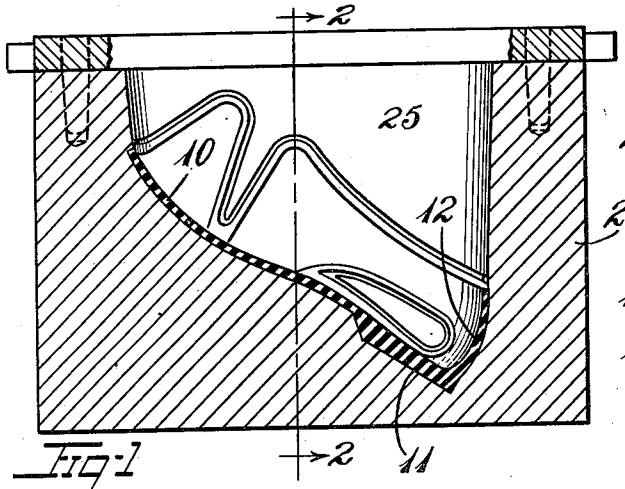


Fig-1

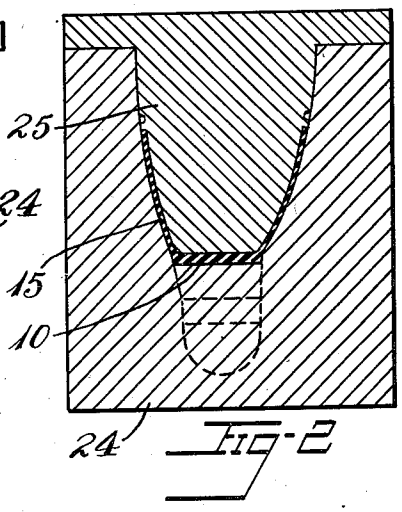


Fig-2

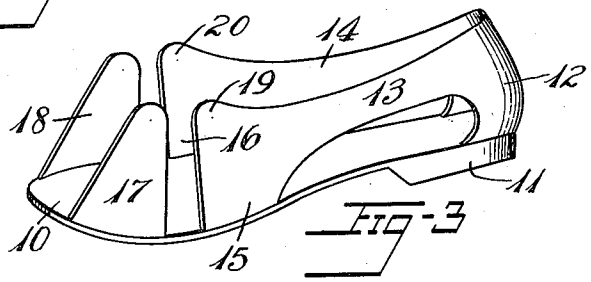


Fig-3

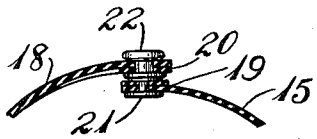


Fig-5

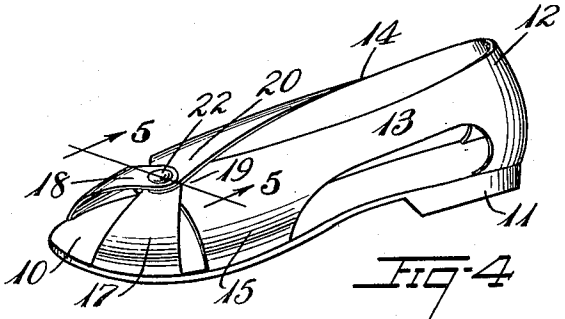


Fig-4

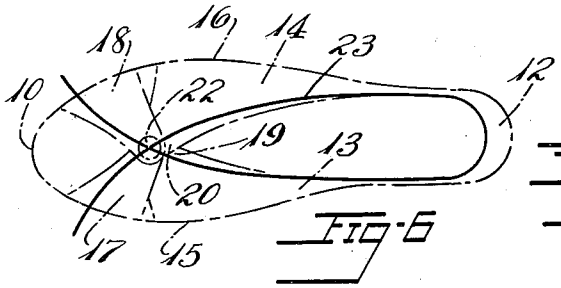


Fig-6

Inventor
Howard M. Dodge
By Eaton & Avery
Attys.

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BATHING SANDAL

Howard M. Dodge, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 29, 1935, Serial No. 18,797

5 Claims. (Cl. 36—11.5)

This invention relates to bathing sandals and the like.

Heretofore bathing shoes commonly have been constructed of soft vulcanized rubber which enclosed the entire foot. While it has been recognized that such material would be advantageous in the construction of bathing sandals, the inherent flexibility of the material has usually prevented the material being used alone, especially for the sole of the device.

Another difficulty encountered is that the sandal easily slips off at the heel when there is lack of tension at the upper edge of the heel portion.

The principal objects of the present invention are to overcome these difficulties, to provide simplicity of structure, to reduce the cost of manufacture, and to provide security, neatness, and improved appearance.

Other objects will appear from the following description and the accompanying drawing.

Of the drawing.

Fig. 1 is a longitudinal cross-sectional elevation of the sandal and the mold for forming it.

Fig. 2 is a cross-sectional view of the same taken on line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the sandal as taken from the mold, the sandal being shown in its preferred form.

Fig. 4 is a perspective view of the finished sandal in its preferred form.

Fig. 5 is a detail sectional view taken on line 5—5 of Fig. 4, showing the fastener.

Fig. 6 is a diagrammatic view showing the sandal in plan view, in dot and dash lines, and showing in full line, the principal line of tension.

Referring to the drawing, the sandal is molded in one piece, of soft, vulcanizable rubber material, and comprises a sole 10, a heel 11, a counter 12, a pair of straps 13, 14, extending forwardly from the top of the counter, and merging with a pair of side straps 15, 16, and a pair of toe straps 17, 18. The toe straps 17, 18 are joined to the sole near its tip and the side straps 15, 16 are spaced rearwardly therefrom and also joined to the sole. The free ends of the toe strap 17 and an elbow 19 formed at the junction of side strap 15 with counter strap 13 are pivotally joined by a snap fastener element 21, and the free end of toe strap 18 and a similar elbow 20 are pivotally joined by a mating fastener element 22, the arrangement being such that when the fastener elements 21, 22 are engaged with each other, the strap elements are all joined pivotally at a point above the ball of the foot, and the strap 17 is in such substantial alignment with strap 14, and strap 18 in such substantial alignment with strap 13, that any force tending to cause downward flexing of the toe portion of the sole is resisted by tension of the toe and heel straps longitudinally thereof and tends to hold the straps 13, 14 laterally against the foot, and the counter portion in conforming relation to the heel of the wearer. Referring to Fig. 6, the principal line of tension is represented by the heavy full line 23 which crosses itself at the pivotal fastener elements. The location of the straps 17, 18 slightly to the rear of the tip of the sole, tends also laterally to concave the sole toward the wearer's foot. This lateral curvature of the sole additionally resists longitudinal flexing of the sole forwardly of the straps.

The fastener elements permit opening of the sandal to admit the foot and thereby permit closer fitting when secured, insuring neat conformity of the upper edges of the straps to the foot at all points.

The construction of the sandal is such that in the unfastened positions the straps 15, 16, 17, 18 extend in diverging relation to the sole whereas the counter 12 extends obliquely forward therefrom. This permits molding of the article in a single piece without the use of complicated molds. In molding the article, a mold comprising a female member 24 and a male member 25 is employed, as illustrated in Figs. 1 and 2.

By forming the mold members with the sole inclined to the horizontal, the proper curvature of the counter 12 may be accomplished without back draft of the core, permitting ready withdrawal of the article and the supporting core from the mold.

I claim:

1. A sandal comprising a rubber sole and a pliable elastic upper comprising a counter portion extending from the heel only to the ball of the foot with its forward extremities normally ununited, a pair of toe straps forwardly spaced therefrom, and a single snap fastener set adapted to pivotally unite said toe straps and the forward extremities of the counter portion over the ball of the foot with each toe strap in substantial alignment with the forward extremity of an opposite counter portion.

2. A sandal comprising a rubber sole and a pliable elastic upper having a counter extending from the heel only to the ball of the foot, a pair of toe straps forwardly spaced therefrom, and fastener means adapted pivotally to unite said toe straps and the forward portions of the counter

over the ball of the foot with each toe strap in substantial alignment with the opposite forward portion of the counter.

3. A sandal comprising a rubber sole, and, integral therewith, a counter having a pair of forwardly extending flexible elastic straps, side straps integral with said forwardly extending straps providing elbows at the junctions of said side straps with the forwardly extending straps, a pair of toe straps fixed to the sole forwardly of the side straps, and fastener means for attaching together said elbows and toe straps.

4. A sandal as defined in claim 3 in which each toe strap of the fastened sandals is in substantial alignment with a forwardly extending strap at the opposite side of the sandal.

5. A sandal comprising a sole of pliable material, a quarter extending from the heel to the ball of the foot, means forwardly of the quarter for partially enclosing the toes, and a single fastener set for pivotally attaching the forward portion of the quarter and the toe-enclosing means over the ball of the foot.

HOWARD M. DODGE.