Aug. 9, 1938. C. H. DANIELS 2,126,094

SHOE

Filed May 23, 1936

Fig. 1

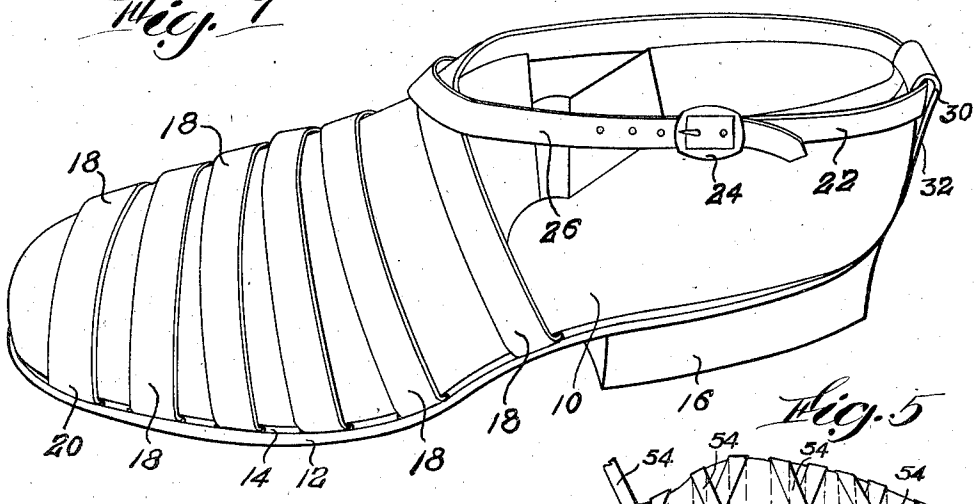


Fig. 5

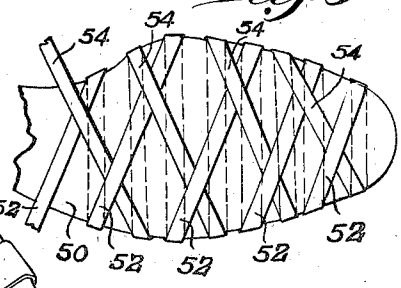


Fig. 2

Fig. 3

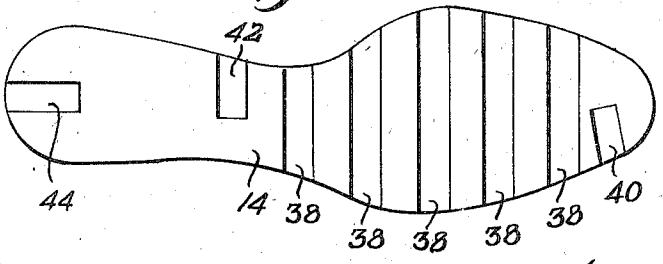
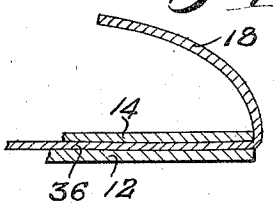


Fig. 4



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UNITED STATES PATENT OFFICE

2,126,094

SHOE

Claude H. Daniels, Wellesley Hills, Mass.

Application May 23, 1936, Serial No. 81,421

1 Claim. (Cl. 36—11.5)

This invention relates to improvements in shoes or sandals in which the upper is formed by straps or lacings spaced apart to provide for ventilation.

In my application, Serial No. 81,420, filed May 23, 1936, I have disclosed improvements in a shoe or sandal in which straps or lacings are passed back and forth between the opposite marginal edges of the sole. The straps or lacings are adjustable to fit the shoe to a foot.

It is an object of my present invention to provide a shoe or sandal in which the forepart of the upper is formed by continuous loops of a lacing or strap which pass transversely through the sole of the shoe.

It is further an object of my invention to construct the shoe in such a manner that a strap or lacing which forms the upper or forepart of the shoe is passed between the insole and outsole of the shoe to form a plurality of loops over the forepart of the foot, and the insole and outsole are secured together between the straps or lacings.

It is still further an object of my invention to construct a shoe by cutting out an insole and outsole, forming a plurality of transverse channels or slots in one of the soles, and securing the soles together to provide a plurality of passages extending from side to side between the soles and passing a strap or straps through the openings or passages and over the forepart of the shoe to provide an upper, the ends of the strap or straps being adjustably secured to hold the shoe on the foot.

Various other objects and advantages of my invention will be more readily apparent from the following description taken in connection with the attached drawing, in which:—

Fig. 1 is a perspective view of a shoe or sandal embodying my invention and shown upon a last for clearness in illustration;

Fig. 2 is a side elevation of the same shoe looking at the opposite side and partially shown in vertical section at the heel portion;

Fig. 3 is a bottom view of the innersole of the shoe in Figs. 1 and 2;

Fig. 4 is a detail section on the plane indicated 4—4 in Fig. 2; and,

Fig. 5 is a plan view of the forepart of a shoe showing a modified construction.

The shoe or sandal of Figs. 1 and 2 is shown upon a last 10 as it would appear upon a foot, but it will be understood that the last forms no part of my invention and is not required in the manufacture of the shoe.

The shoe includes a sole which may be either a single sole or composite sole composed of an outsole 12 and an insole 14, as illustrated. A heel 16 of any suitable style and height may be attached if desired.

The upper of the shoe or a portion thereof, as desired, is composed of a strap or lace 18 which may be of any desired material and may be of any desired width and thickness. The strap is disposed in a plurality of continuous loops which pass over the forepart of the foot which wears the shoe and through the sole, or, as herein shown, between the insole and outsole which make up the sole.

If a single strap is used, as disclosed in Figs. 1 and 2, the front end 20 is fixed in position or may be detachably secured to the toe portion of the sole and the rear or free end 22 may be adjustably secured as by a buckle 24 to a short piece of strap 26 or other form of anchoring member. As here shown, the strap 26 is fixed at one end 28 or may be detachably fastened to the sole of the shoe. The strap 26 may pass around the ankle of the foot and through a loop 30 at the upper end of a heel strap 32 which is secured at 34 between the parts of the sole.

An essential feature of my invention resides in the adjustable character of the upper, particularly the forepart thereof, as herein shown, although it will be understood that similar principles of construction might be utilized in other portions of the upper. The loops of the strap 18 are each adjustable in size by loosening or tightening the strap as the strap is not fixed or fastened except at its ends. As shown in Fig. 4, the portion 36 of the strap 18, which passes between the outer and inner parts of the sole, is free to move relative to the sole and is merely confined against lateral displacement so as to preserve the spacing between the loops.

It will immediately be apparent that various constructions may be resorted to in the construction of the sole with the provision of openings, passages or spaces to receive the portions 36 of the strap 18. If the strap 18 is relatively thick channels 38 may be cut or formed in one of the parts of the sole such as the insole 14, as shown in Fig. 3. The outsole 12 may then be cemented or otherwise secured to the insole, and it will be understood that the sole members are secured or attached intermediate the portions 36 of the strap which lie between the sole members. Similarly, channels 40, 42 and 44 may be cut or formed for receiving and fixing in position the front end 20 of the strap 18, the lower end 28 of the short strap 26 and the lower end 34 of the

heel strap 32. If the strap used is relatively thin it would be unnecessary to cut channels, and the sole members could be secured by parallel lines of transverse stitching or by cementing in such a manner as to leave blank spaces through which the strap could be freely passed between the parts of the sole.

It will be understood that the strap or lacing may be applied in various ways, and I have shown in Fig. 5 a modified construction. The sole 50 has a plurality of parallelly disposed channels or passages extending from side to side and either a single strap or lacing or a pair of straps or lacings can be applied. One lace or part of a lace 52 is formed into loops which pass through alternate openings in the sole, and the other lace or part of a lace 54 is formed into loops and passed through the remaining alternate openings through the sole. Each lace would cross the other lace twice, as shown, in passing over the forepart of the shoe between the opposite marginal edges of the sole. The free ends of the laces 52 and 54 may be adjustably secured in any desired manner to hold the shoe on a foot. A shoe, so constructed will be adjustable to fit the foot of the wearer in the same manner as the shoe in Figs. 1 and 2.

Shoes such as disclosed can be inexpensively manufactured, but will present an attractive appearance and may be made up in various styles. The marginal edges of the insole and outsole may be evenly trimmed and finished off in a convenient manner. It will be understood that various changes and modifications may be resorted to without departing from the spirit of my invention, as expressed in the appended claim.

I claim:

A sandal-type of shoe comprising a sole provided with a plurality of transverse strap receiving passages extending through the sole from side to side thereof, a strap fixed at one end to the toe of the sole forward of the first of the passages and on the outer side edge of the sole, said strap being formed into loops successively extending through said passages rearwardly of the sole, a strap fixed to the heel portion of the sole and extending upwardly from said sole at the rear thereof, said first mentioned strap being extended and arranged to pass around the ankle of the foot and through an opening in the heel-strap and another strap fixed at one end to the inside edge of the sole adjacent the heel portion and adapted to be adjustably secured at its other end to the free end of the first mentioned strap.

CLAUDE H. DANIELS.