

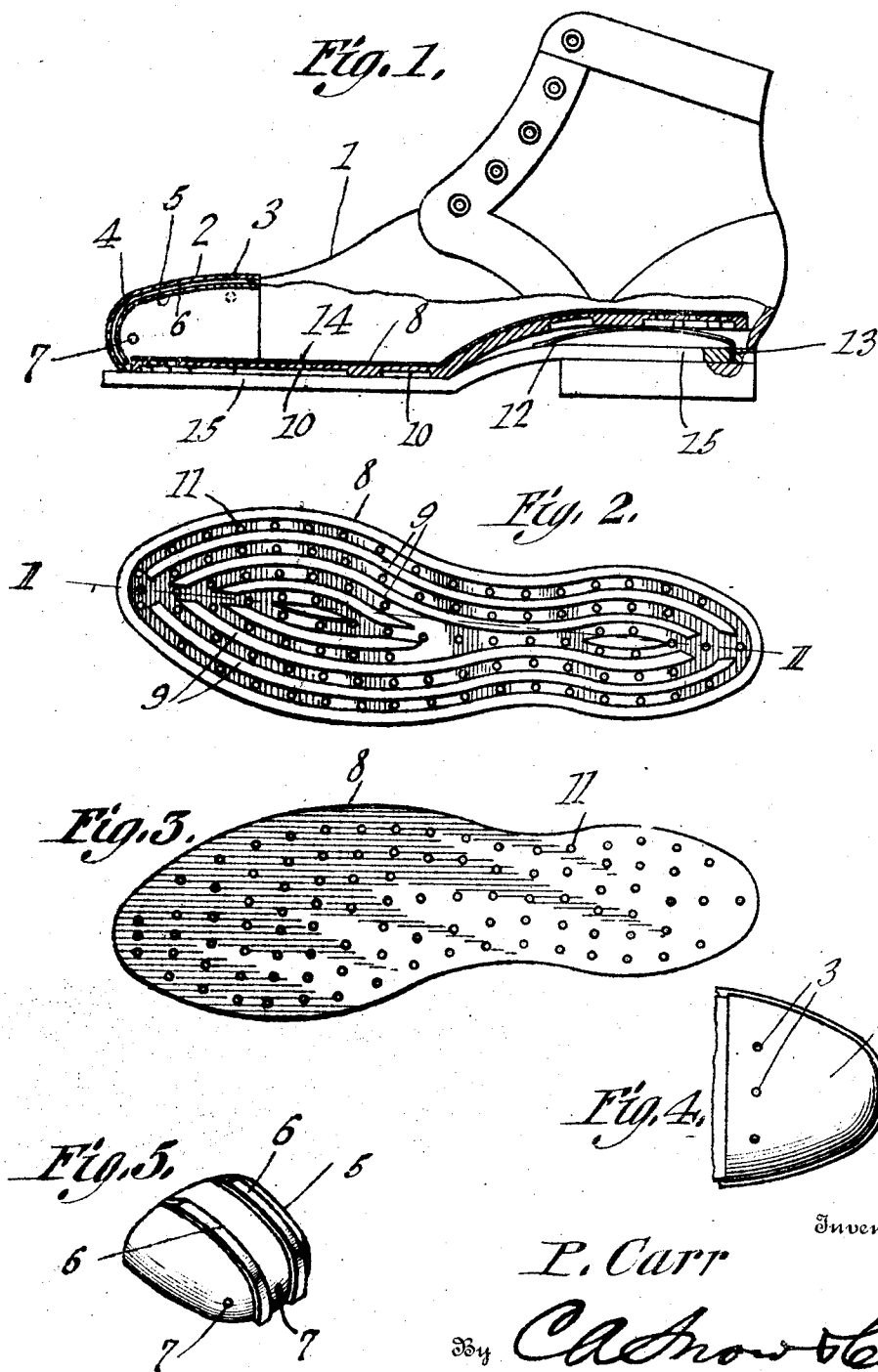
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SHOE

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UNITED STATES PATENT OFFICE.

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SHOE.

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This invention relates to shoes and more particularly to ventilated shoes.

The object of the invention is to provide a shoe so constructed that air will be drawn in at the toe of the shoe and carried back to the heel and expelled on each step taken, fresh air being drawn in at each step thus preventing the feet from perspiring excessively.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 represents a side elevation of a shoe constructed in accordance with this invention with parts broken out and in section; the section being taken on the line 1—1 of Fig. 2.

Fig. 2 is a bottom plan view of the ventilated inner sole;

Fig. 3 is a top plan view thereof;

Fig. 4 is a detail top plan view of a portion of the toe; and

Fig. 5 is a perspective view of the inside toe box detached.

The shoe 1 may be of any desired shape and has the outer toe box 2 thereof provided with a plurality of air inlet apertures 3 here shown arranged transversely across said box which admit air to the space 4 between the outer box 2 and the inner box 5. This inner box 5 is provided with a plurality of longitudinally extended laterally spaced ribs 6 on its outer face which operate to space the box from the outer box and which is equipped at its lower front end with a plurality of apertures 7 which admit air to the inside of the shoe.

A leather ventilated insole 8 is provided on its lower face with a plurality of longi-

tudinally extending laterally spaced ribs 9 having channels 10 formed between them in which are located longitudinally spaced apertures 11 which extend through the sole 8 for the free passage of air.

A cushioning spring 12 of blade steel is located under the heel portion of the insole 8 and is provided at its rear end with prongs 13 designed to be embedded in the outsole 15 of the heel portion thereof as is shown clearly in Fig. 1. This spring 12 is bowed upwardly as shown clearly in Fig. 1 and operates to hold the heel portion of the insole spaced normally above the outer sole so that when depressed air will be forced out through the channels 10 into the space 4 between the outer and inner toe boxes and pass out to the atmosphere through the aperture 3.

The air is drawn in reversely, that is it is admitted through the aperture 3 to the space 4 between boxes 2 and 5 and passes into the shoe through the aperture 7.

A shoe constructed as herein shown and described insures free passage of air and through ventilation thereby prolonging the life of the shoe in addition to rendering the feet of the wearer more comfortable.

A gauze dust cover 14 is preferably arranged over the upper face of the insole to prevent clogging of the air passages.

I claim:—

In combination with a movable ventilator insole of a shoe, a ventilating toe section including a curved rigid body portion curved to conform to the shape of the toe portion of the shoe, ribs extending over the upper surface of the toe section and arranged in spaced relation with each other, said ribs contacting with the inner surface of the toe of the shoe to provide air passageways therebetween so that movement of the insole will force air through the passage ways and over the toe section.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

PAUL CARR.