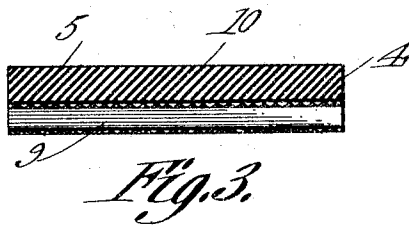
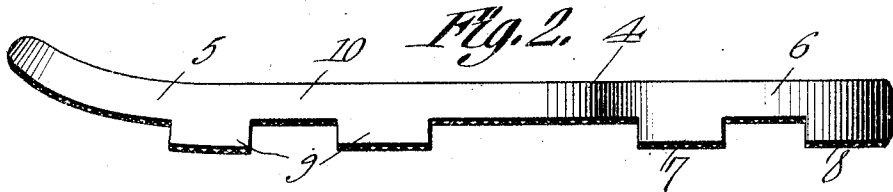
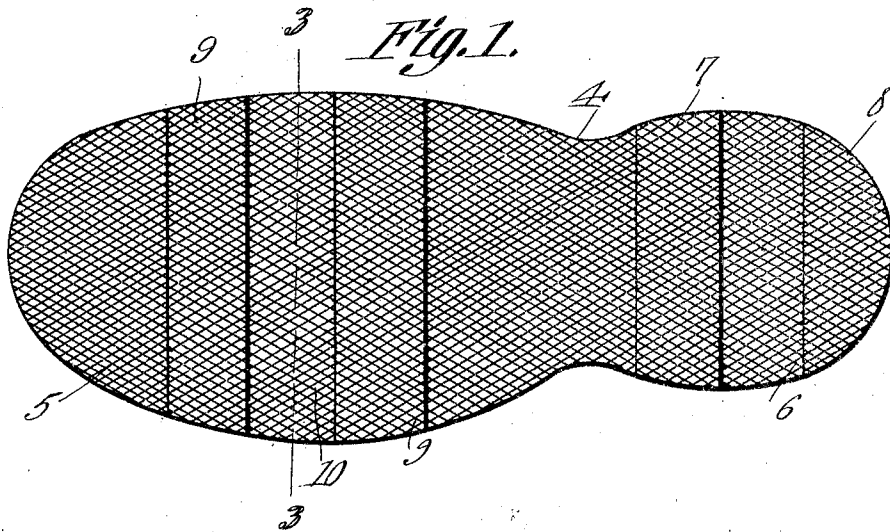


J. McCANNA.
TREAD FOR FOOTWEAR.
APPLICATION FILED SEPT. 3, 1912.

1,058,617.

Patented Apr. 8, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN McCANNA, OF ONTONAGON, MICHIGAN, ASSIGNOR OF ONE-HALF TO JOHN JONES,
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TREAD FOR FOOTWEAR.

1,058,617.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed September 3, 1912. Serial No. 718,323.

To all whom it may concern:

Be it known that I, JOHN McCANNA, a citizen of the United States, residing at Ontonagon, in the county of Ontonagon and State of Michigan, have invented a new and useful Tread for Footwear, of which the following is a specification.

This invention relates to footwear, and particularly to shoes, it being the primary object of the present invention to provide a novel form of tread for rubber shoes, in order to effectually prevent slipping on snow and ice.

This invention is adapted particularly for use in connection with lumbermen's shoes, but it is understood that the same has a wide range of application, as will be apparent.

This invention contemplates the production of a tread for a shoe which shall be easy to manufacture, which shall be inexpensive in its production, which shall be substantial and durable, and which shall effectively prevent slipping, as well as being convenient and comfortable in its use.

It is the object of the present invention, to avoid the use of leather or other pieces in the construction of the sole and heel of the tread, which pieces serve to weaken the sole and heel so that cracking or breaking thereof is rendered more liable, and for the further reason, that said pieces tend to shrink and swell independently so as to cause the warping or unshaping of the tread, which is objectionable.

The present invention has for a further object, to provide a tread of the character indicated which shall be devoid of nails, or other metallic securing members, the absence of which has the effect of increasing the resistance against conduction, so that the tread gives proper protection against cold, as it would not otherwise furnish in the presence of nails and the like. The presence of nails and similar securing members would also tend to tear the sole and heel and thus provide leaks and other disadvantages which the present invention aims to overcome.

A still further object of the present invention is to provide a tread molded from rubber and comprising integral heel and

sole portions, and integral means for preventing slipping.

With the foregoing and other objects in view, the present invention resides in the novel construction, combination and arrangement of parts hereinafter set forth and claimed, reference being had to the accompanying drawing, wherein the invention has been illustrated in its preferred embodiment, and wherein—

Figure 1 is a bottom view of the tread of a shoe constructed in accordance with the present invention. Fig. 2 is a side elevation thereof. Fig. 3 is a section taken on the line 3—3 of Fig. 1.

Referring specifically to the drawings, the numeral 4 designates the tread comprising the sole portion 5 and the heel portion 6, which are of approximate equal thickness throughout and are of a thickness to suit the circumstances. The tread is also suitably curved to conform to the foot of the wearer, as will be apparent.

The heel portion 6 is provided with an integral depending transverse rib 7 at its front end and with an integral depending transverse rib 8 at and forming a part of the rear end of the heel, the ribs 7 and 8 being of considerable width and being spaced apart as will be observed in the drawing.

The sole portion 5 is provided with a pair of integral depending juxtaposed transverse strips 9, which are arranged directly in rear and in front of the point 10 of the sole portion on which the ball of the foot is adapted to rest, the ribs 9 also being of considerable width.

In the formation of the tread, the same is molded in a suitable form or mold, the tread and ribs being grooved, serrated or otherwise roughened, as is customary. It may be stated at this point, that the pair of ribs 9 on the sole portion are essential, but if desired, more than two of the ribs 9 may be provided.

From the foregoing, taken in connection with the drawing, the advantages and capabilities of the present tread will be apparent, and it will be observed that the objects aimed at have been carried out. The tread in being constructed of an integral piece of rubber will not warp, swell, shrink, or other-

wise become distorted as would be the case if the tread embodied leather or other pieces, and nails or other securing members. The application of the tread to rubber shoes or other footwear will be apparent, it being noted that the ribs at the front and rear ends of the heel will convenience the use of a shoe embodying the present tread and that the ribs 9 are arranged directly in front and rear of the point of the sole upon which the ball of the foot is designed to rest, to permit the sole to bend or flex between the ribs 9. The ribs are all of considerable widths so as to adapt a shoe embodying the present tread for ordinary use, and the ribs are also of sufficient depth to properly sink into the snow for preventing slipping.

In practice, it may be desirable to slightly shift the particular position of the various ribs, it being understood, therefore, that the particular arrangement of the various ribs may be altered as is deemed desirable or beneficial.

Having thus described the invention, what is claimed as new is:—

A molded shoe tread comprising integral sole and heel portions of approximately equal thickness throughout, the heel portion having an integral depending transverse rib of comparative large width at its front end, and an integral depending transverse rib of comparatively large width at and forming a part of the rear end thereof, and the sole portion having a pair of integral depending transverse ribs of comparatively large widths directly in front and in rear of the point of the sole portion on which the ball of the foot is designed to rest.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN McCANNA.

Witnesses:

MAURICE P. McCANNA,
JOHN WALSH.