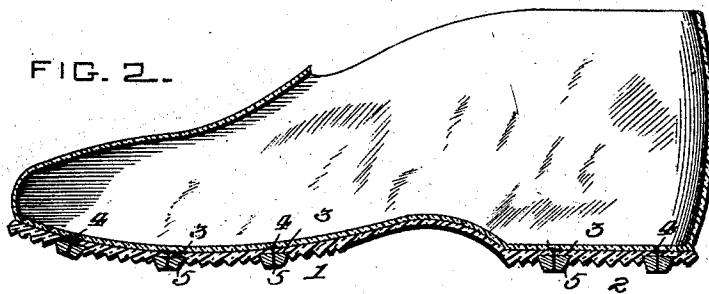
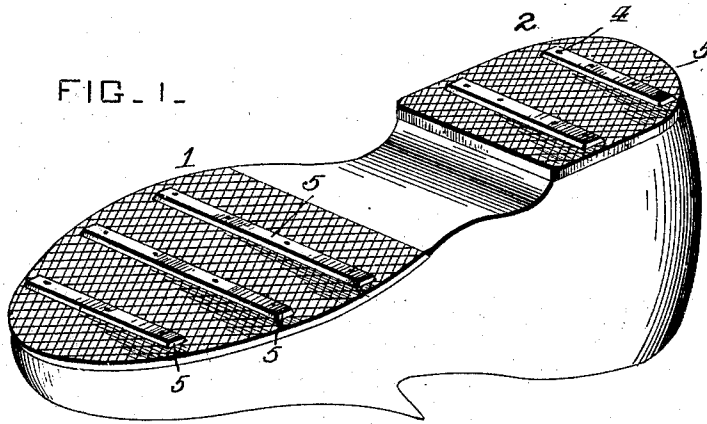


(No Model.)

M. MAYER.
RUBBER SHOE.

No. 509,927.

Patented Dec. 5, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

MAX MAYER, OF DENVER, COLORADO.

RUBBER SHOE.

SPECIFICATION forming part of Letters Patent No. 509,927, dated December 5, 1893.

Application filed July 26, 1893. Serial No. 481,509. (No specimens.)

To all whom it may concern:

Be it known that I, MAX MAYER, a citizen of the United States, and a resident of Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Rubber Boots or Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in rubber boots or shoes, and has for its object to provide, in connection with the sole and heel portions of such devices, safety attachments in the form of strips of leather extending transversely across the same for the purpose of preventing slipping upon ice and snow and thereby materially assisting pedal movement.

With this and other objects in view, the invention consists of the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings: Figure 1 is a perspective view of the sole and heel portion of a rubber boot or shoe, showing the improved attachments applied in connection therewith. Fig. 2 is a central, longitudinal, vertical section of a sole and heel, as shown in Fig. 1.

Similar numerals of reference are employed to indicate corresponding parts in both figures.

Referring to the drawings, the numerals 1 and 2 designate the sole and heel respectively, of a rubber over-shoe or a rubber boot, and extending transversely across the same at proper distances or intervals are grooves 3 which are formed when the rubber is going through the process of molding to construct the boot or shoe, and centrally located in the said grooves and projecting outward therefrom is a series of rivets 4, whose shanks are barbed backwardly or upwardly when the boot or shoe is in proper position. The said rivets are put in position during the process of molding, and are thereby held firmly in place. Seated in the said grooves 3 are leather strips 5, which project beyond the surface of the sole and heel and through which are passed the projecting ends of the rivets. In securing the leather strips 5 in the grooves the ends of the rivets are upset and swaged down and the said leather strips are thereby securely retained in the said grooves.

By the formation set forth, a series of ribs are provided which take into the snow and give the feet of the wearer a purchase in walking to prevent backward slipping or sliding movement. On ice the surfaces of the ribs or leather strips firmly contact with the slippery surface and the rubber of the sole and heel of the shoe co-acting therewith, prevent the feet from sliding either forwardly or backwardly, as the ribs are arranged transversely and form abutting or resisting shoulders.

In applying the leather strips to the sole and heel, of a boot or shoe, they are not put in position until after the said sole and heel are formed, as the heat would otherwise destroy the leather and render the same useless. It will be understood that any form of rivet may be employed, so long as the points of the same are soft and will easily clinch or be fastened in the manner previously stated. The device entire is simple in its construction and is especially useful in walking over steep roads to prevent slipping backwardly. The leather strips also increase the durability of the rubber sole or heel by removing a portion of the wear therefrom.

It will be obviously apparent that many minor changes in the construction and arrangement of the several parts might be made for those shown and described, so long as they are within the scope of the invention, without in the least departing from the nature or spirit of the latter.

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

In a rubber boot or over-shoe, the combination of the sole and heel portions thereof, having grooves formed therein, and rivets projecting from said grooves and seated in position during the casting or molding of the sole, and leather strips, fitted in said grooves and secured by the said rivets, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MAX MAYER.

Witnesses:

CHAS. W. REITLER,
MARGARET E. GARTLAND.