

M. C. McCUNN.
SOLE AND HEEL PLATE.
APPLICATION FILED APR. 10, 1908.

917,476.

Patented Apr. 6, 1909.

Fig. 1.

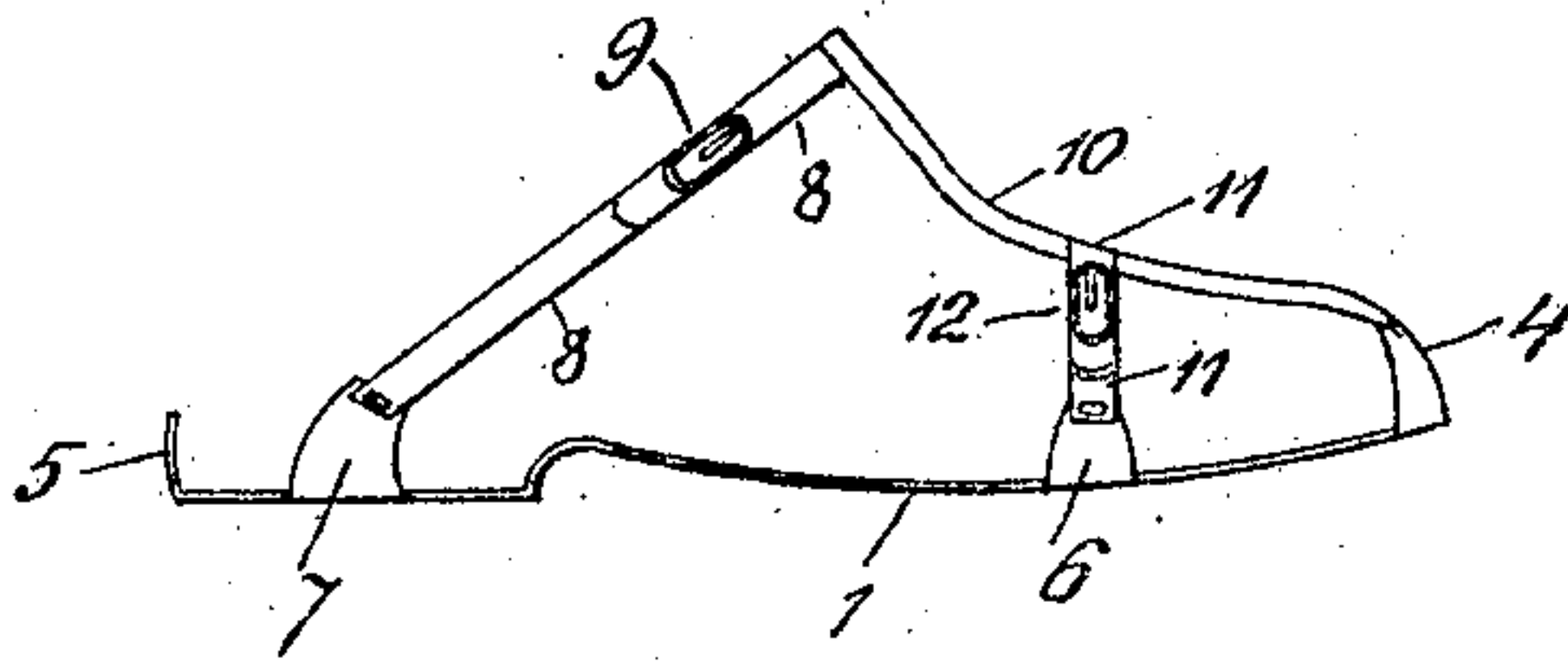


Fig. 2.

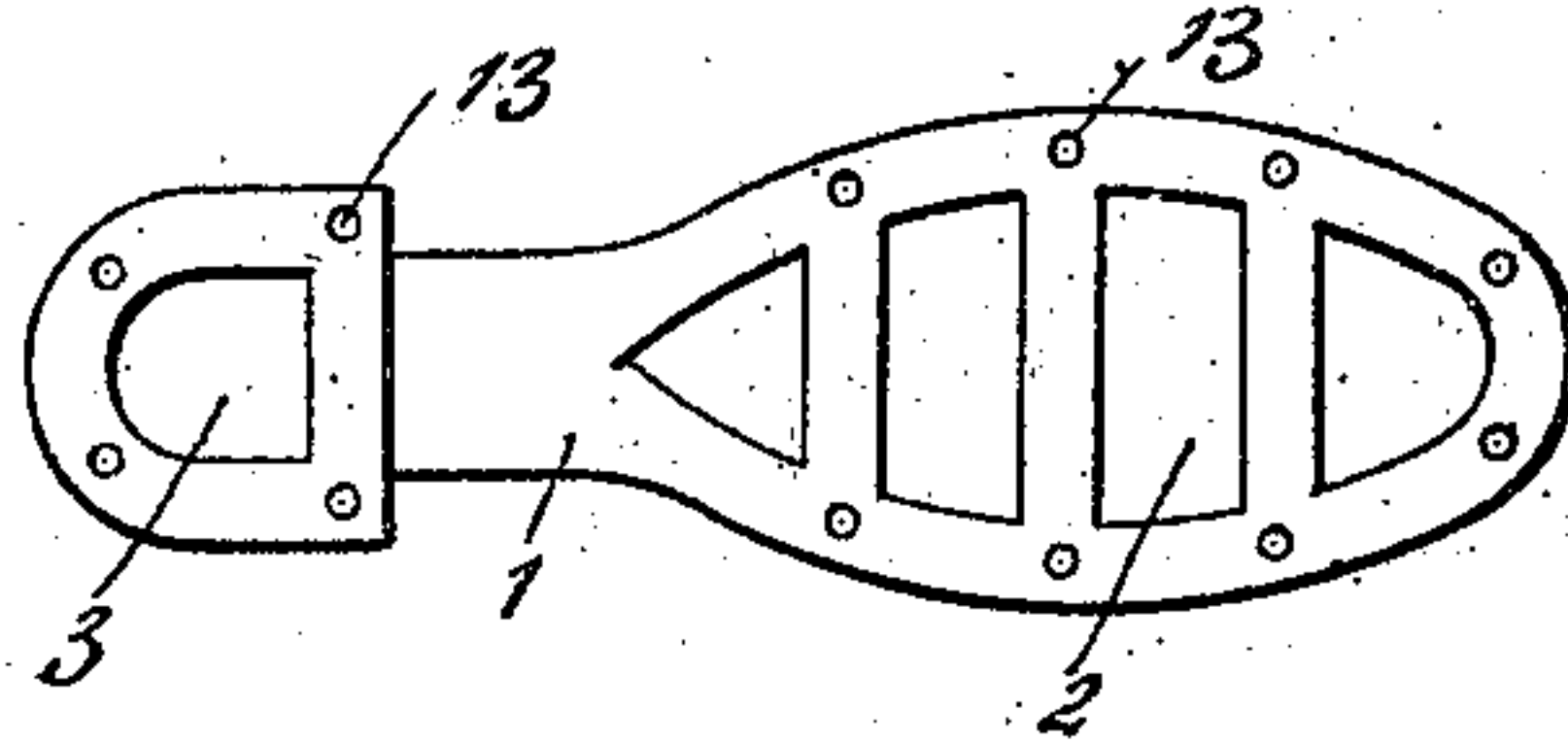


Fig. 3.



Fig. 4.

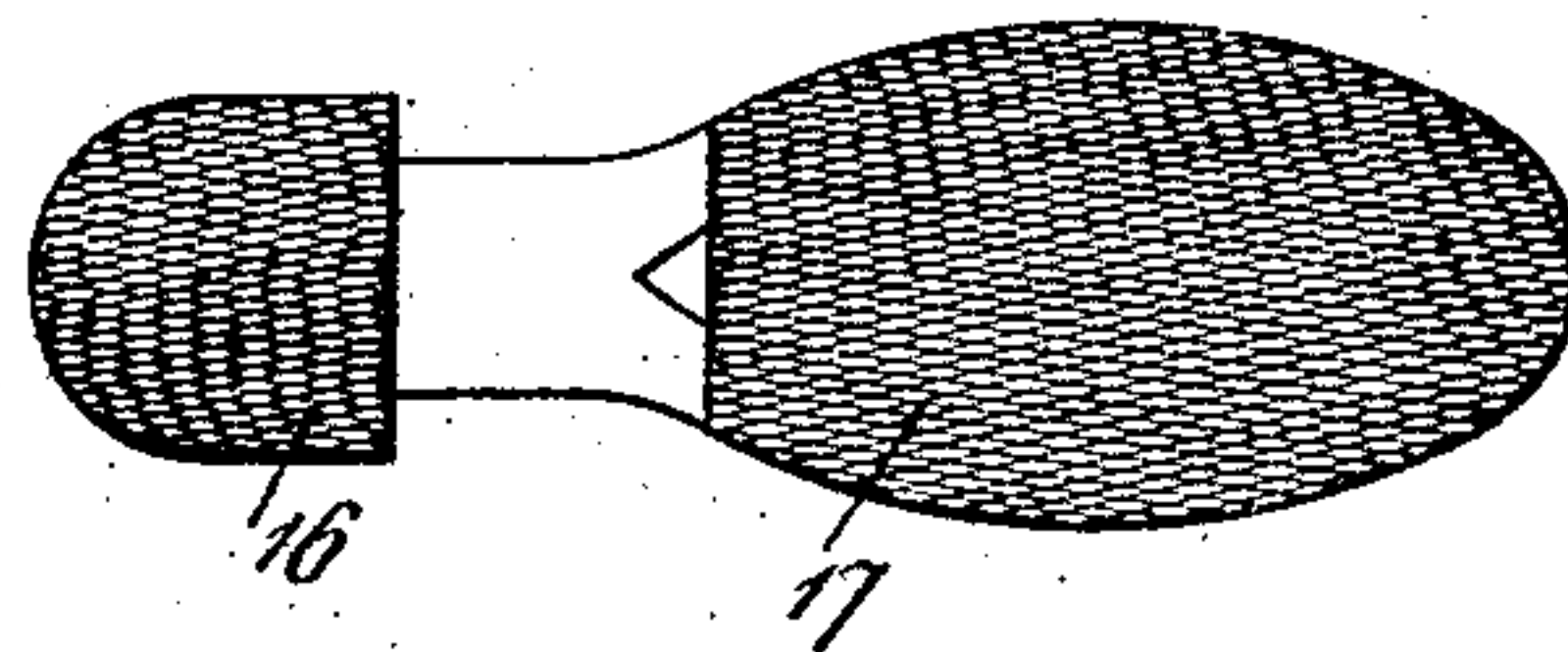


Fig. 5.

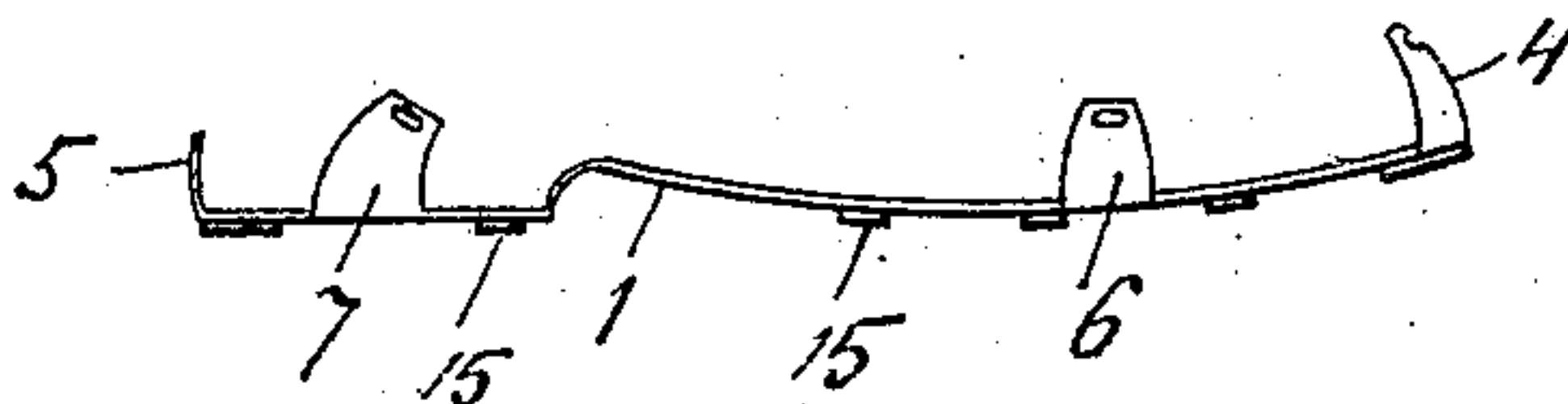
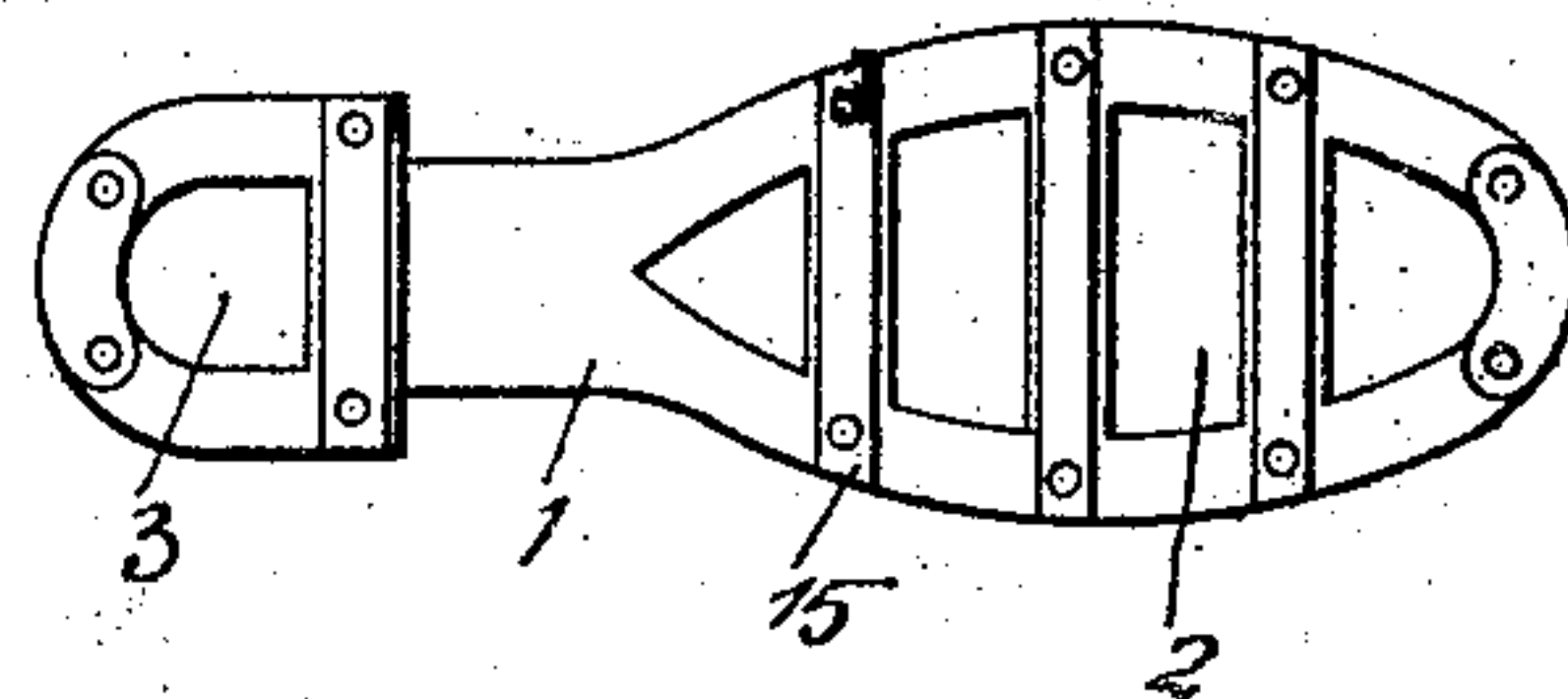


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

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SOLE AND HEEL PLATE.

No. 917,476.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MARK C. McCUNN, a citizen of the United States of America, residing at Indiana, in the county of Indiana and State of Pennsylvania, have invented certain new and useful Improvements in Sole and Heel Plates, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to sole and heel plates for shoes, and the object of my invention is to provide a novel shoe attachment that will prevent a person from slipping upon a smooth surface and will protect the sole and
15 heel of the shoe.

My invention aims to provide a shoe attachment which can be advantageously used by millmen having hot plates to walk upon that would tend to burn and destroy the
20 leather of a shoe; which can be used by tinnermen and all roofers when placing a roof upon a house, the attachment in this instance preventing a tinner from slipping; and, which can be used to prevent persons from slipping
25 upon ice, frozen and smooth surfaces. To this end, I construct a metallic skeleton plate adapted to be strapped or otherwise secured to a shoe and the sole thereof. The plate can be provided with depending pegs or lugs,
30 with transverse metallic strips, or with rubber plates.

The detail construction entering into my invention will be presently described and then specifically pointed out in the appended
35 claim.

Referring to the drawing forming a part of this specification, Figure 1 is an elevation of my sole plate, Fig. 2 is a bottom plan of the same, Fig. 3 is an elevation of the sole plate
40 equipped with depending lugs or pegs, Fig. 4 is a similar view of the sole plate with knurled rubber plates, Fig. 5 is an elevation of the sole plate provided with metallic strips and, Fig. 6 is a bottom plan of the
45 same.

In the accompanying drawings, 1 designates a metallic plate conforming in shape to the sole and heel of a shoe, said plate being provided with openings 2 and a heel opening
50 3 to provide a light skeleton structure. The openings 2 form the sole portion of the plate with a series of transversely extending bars. The toe of the plate 1 is provided with an up-

wardly extending apertured toe plate 4, the heel with an upwardly extending lug 5, the
55 side edges of the sole with upwardly extending apertured lugs 6, and the side edges of the heel with upwardly extending apertured lugs 7. The lugs 7 are provided with instep encircling straps 8 buckled together, as at 9.
60 One of the straps 8 is connected to the toe plate 4 by a strap 10, and said strap 10 is connected intermediate its ends to strap 11 buckled together, as at 12 and connected to
65 the sole lugs 6.

The straps 8 to 11 inclusive form a harness for securing the plate 1 upon the sole of a shoe, and the toe plate 4 and lugs 5 to 7 inclusive prevent the plate from sliding upon a shoe sole. In this connection, I would have
70 it understood that the plates are made of various sizes and configurations to fit upon the soles of shoes of various sizes.

The plate 1 is provided with a plurality of openings 13 and suitably secured in said
75 openings are pegs or pins 14; these pegs or pins prevent the person from slipping upon a smooth surface. In lieu of the pegs or pins, I can provide the plate with transverse strips 15, these strips sufficiently elevating the
80 plate 1, whereby the plate can be worn by a millman and the shoe protected from hot metallic plates. I can also provide the plate 1 with rubber plates 16 and 17, the plates 1, 16 and 17 being worn by tinnermen and all roofers
85 in lieu of ordinary rubber shoes, which are injurious to the feet.

Having now described my invention what I claim as new, is;

An attachment for the soles of boots and
90 shoes, comprising a metal plate shaped to conform to the sole and heel of a boot or shoe, the sole portion of said plate provided with a series of openings forming said portion with
95 a series of transversely extending bars, the heel portion of the plate having a relatively large opening, said openings in said portions providing a plate of skeleton like formation, an upwardly-extending curvilinear lug carried by the rear end of the heel portion of said
100 plate, upwardly and forwardly-extending apertured lugs carried by the side edges of said heel portion of the plate, upwardly and inwardly-extending apertured lugs carried by the side edges of the sole portion of the
105 plate, a rearwardly and upwardly-extending

apertured toe cap carried by the front end of
said sole portion of the plate, an instep strap
connected to the side lugs of said heel por-
tion, a top strap connected to said instep
5 strap and to the toe cap and a cross strap
connected to the sole portion of said plate
and to the said top strap.

In testimony whereof I affix my signature
in the presence of two witnesses.

MARK C. McCUNN.

Witnesses:

HARRY W. FEE,
ELDER PRELOT.