

C. C. CUMMINGS.
ATTACHMENT FOR BOOTS, SHOES, AND THE LIKE.
APPLICATION FILED DEC. 15, 1911.

1,053,361.

Patented Feb. 18, 1913.

Fig. 1.

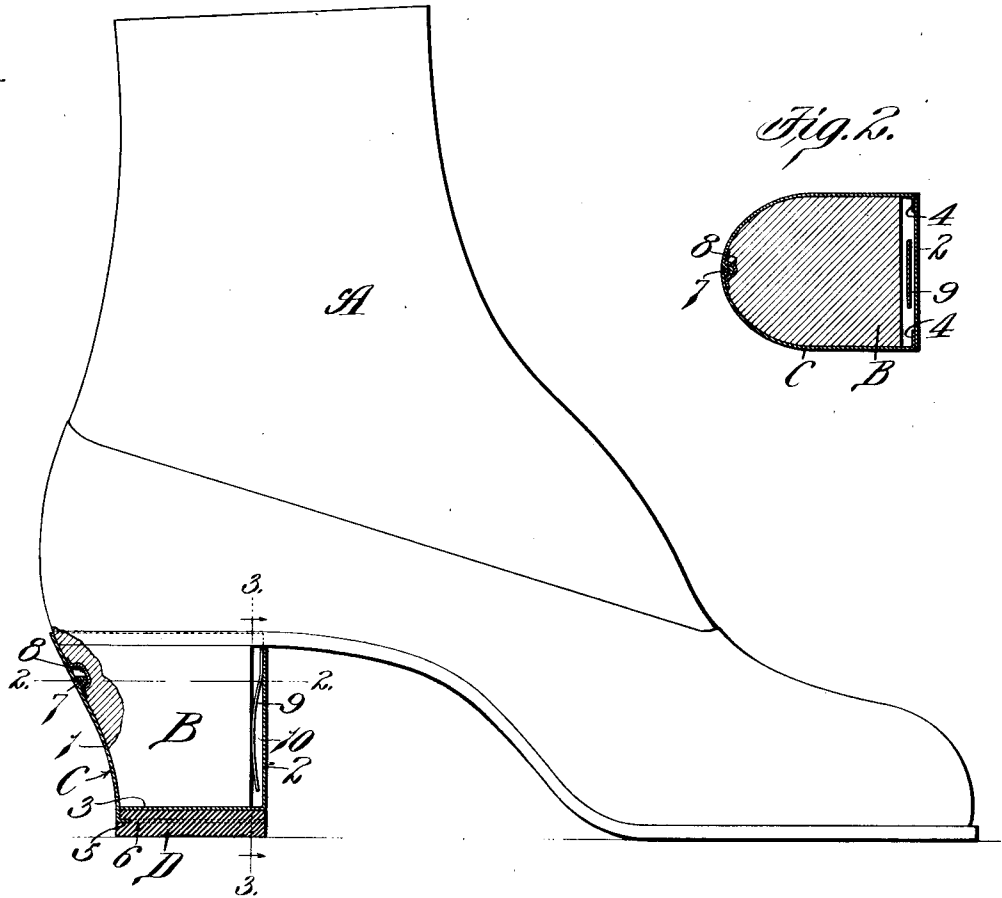


Fig. 2.

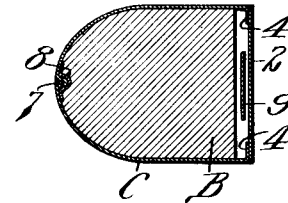


Fig. 3.

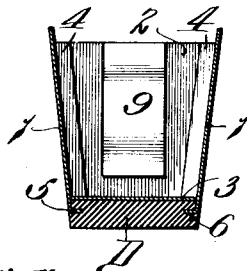


Fig. 4.

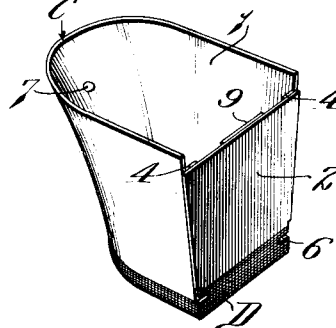
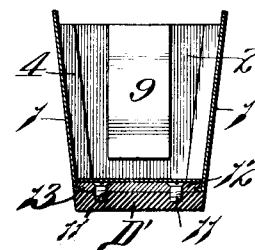


Fig. 5.



Witnesses:
A. L. Ehrenman.
Geob. Eichbaum

Inventor,
Charlie C. Cummings.
By Ralph T. Smith, Atty.

UNITED STATES PATENT OFFICE.

CHARLIE C. CUMMINGS, OF ST. LOUIS, MISSOURI.

ATTACHMENT FOR BOOTS, SHOES, AND THE LIKE.

1,053,361.

Specification of Letters Patent.

Patented Feb. 18, 1913.

Application filed December 15, 1911. Serial No. 665,898.

To all whom it may concern:

Be it known that I, CHARLIE C. CUMMINGS, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Attachments for Boots, Shoes, and the Like, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof, in which—

Figure 1 is a side elevational view of a shoe with the heel thereof partly in section, showing, in vertical section, my new attachment in operative position thereon; Fig. 2 is a horizontal sectional view on the line 2—2, Fig. 1; Fig. 3 is a vertical sectional view on the line 3—3, Fig. 1; Fig. 4 is a perspective view of my new attachment or heel covering; and Fig. 5 is a view similar to Fig. 3, illustrating a slightly modified form of my invention.

This invention relates to a certain new and useful improvement in attachments for boots, shoes, and the like, the objects of my invention being to provide a removable or detachable covering or attachment to fit particularly the shoe-heel and to be used or worn especially in rainy, snowy, or other rough or inclement weather and adapted to serve as a protection for the heel and as an anti-slipping device for the shoe to lessen or obviate the danger of walking on wet or slippery pavements and the like, which is adapted to be readily attached in operative position on the shoe-heel, which is adapted to be quickly and easily detached from the shoe-heel and without the use of the hands, tools, or the like, which is simple in construction, which may be manufactured at a comparatively low cost, and to improve generally upon attachments or devices of the kind stated.

With these objects in view, my invention resides in the novel construction, arrangement, and combination of the several parts of my new heel covering or attachment, and in the novel arrangement and combination of the same with a shoe-heel, all as will hereinafter be described and afterward pointed out in the claims.

In the drawings, wherein like reference characters refer to like parts, A indicates a shoe of ordinary construction provided with

the usual heel B, on and with which heel my new attachment or covering is adapted to fit and detachably engage.

My new heel covering or attachment comprises a preferably metallic body portion or shell C, made to conform to the contour of, and adapted to fit on, a particular heel B and having means, hereinafter described, adapted to detachably engage with, and thereby removably hold the same on, said heel B, and a preferably rubber or other resilient or yielding cushion, pad, or the like D arranged on, and supported by, said shell or body portion and adapted, when my new heel covering is in operative position on the heel, to fit under the heel and provide an anti-slipping ground-engaging portion.

The body portion or shell C is made up of or comprises a curved, substantially U-shaped vertically disposed wall 1, preferably flaring outwardly from its bottom edge to its top edge and conforming to the rounded contour of the particular heel B with which the covering or attachment is to be used, adapted to embrace said heel when the covering or attachment is in position thereon, a front vertically-disposed wall 2 adapted to extend in front of heel B, and a floor or base 3 adapted to bear against the under side of heel B, base 3 being preferably a horizontal continuation of front wall 2. The wall 1 is preferably provided at its front edges, as shown particularly in Fig. 4, with short inwardly-extending vertically-disposed flanges 4, to which said front wall 2 is suitably secured, as by means of soldering, base 3 being also suitably secured at its edges, as by soldering, to wall 1.

As the top edge of front wall 2 is adapted, when the covering is in position on the heel B, as shown particularly in Fig. 1, to bear or rest against the under side or surface of the sole of the shoe, and as it is desired that the covering shall completely cover the outer surface of heel B and thus present a neat appearance when on the shoe, wall 1 is preferably continued or extended somewhat above the top edge of front wall 2, as shown particularly in Figs. 1 and 4. The wall 1 is also preferably extended or continued downwardly below base 3 and is then bent or doubled inwardly to provide a substantially U-shaped horizontally-dis-

posed flange 5 adapted to fit in and coöperate with a recess or groove 6 extending horizontally around the curved side and rear faces of the resilient or yielding pad D, the pad D, which is of a size and shape in plan, as shown particularly in Fig. 4, corresponding with the bottom of body portion or shell C, being thereby removably held in proper operative or ground engaging position. Due to the elastic or yielding properties or character of pad D, on being engaged with said flange 5 as described it will closely hug the same and thus be ordinarily or normally held in operative position and against displacement; should it be desired, however, to renew the pad D, the old or worn pad D may be removed by positive pressure being exerted thereon from the rear and in a forward direction, as will be clear.

To secure or hold my new attachment or covering firmly, but detachably, in operative engagement with heel B, I preferably provide or form approximately centrally on the inner surface of wall 1 of body-portion or shell C adjacent its top edge an inwardly-extending projection 7 adapted, when my covering or attachment is in operative position, to fit in and removably engage with a preferably metallic pocket or the like 8 embedded in proper coöperative position in the rear face of heel B, as shown particularly in Fig. 1. I also suitably secure at one end to said front wall 2, and directly opposite said projection 7, a preferably flat leaf-spring 9, the other end of said spring being free and the body thereof being preferably convexly curved inwardly or toward rear wall 1. The length of the base 3 and of the legs of said U-shaped wall 1 is slightly greater than the length of heel B to provide a space, as at 10, between the front face of heel B and the inner surface of wall 2 for accommodating spring 9. Normally this spring 9 is adapted to bear against and frictionally engage with the front face of heel B and also yieldingly hold or retain wall 1 closely up against the side and rear faces of heel B with said projection 7 in, and engaging with, said pocket 8, my new covering or attachment being thus firmly held in operative position on heel B. To remove my new covering or attachment from operative engagement with the heel B, it is merely necessary to exert sufficient pressure rearwardly on front wall 2 to depress spring 9, the rear portion of wall 1 thereby being forced away from the rear face of heel B and said projection 7 carried out of engagement with said pocket 8, when the covering or attachment will readily drop off heel B; this removal operation may be easily accomplished by placing said front wall 2 against some accessible stationary ob-

ject and then pushing the foot forwardly, my new covering or attachment being thus removable or detachable from the shoe-heel without the use of the hands or any tools or the like. Preferably said pocket 8 is vertically elongated, so that said projection 7 will readily fit in and engage therewith notwithstanding wear on the under side or face of heel B.

In Fig. 5, I have shown a slightly modified form of my invention. In this form, the ground-engaging pad D' is secured in any suitable manner, as by means of screws or the like 11, to a substantially U-shaped metallic plate 12 cut-away or recessed on its under side and at its edges, as at 13, and adapted to slidably fit between base 3 and said inturned flange 5, said ground-engaging portion or pad D' being thereby firmly held in operative position on body-portion or shell C.

It will be seen that my new attachment or shoe-heel covering as herein described is small and compact and simple in construction, may be easily manufactured and at a comparatively low cost, may be readily and quickly attached to, or detached from, a shoe-heel without the use of any tools or the like, and may be carried in a pocket or other suitable place for use only in rough or inclement weather, if desired, and removed upon entering indoors.

In use, the body-portion or shell C of my new covering or attachment is preferably painted or otherwise colored to match the leather or color of the leather of the shoe upper of the shoe in connection with which it is to be used; and it will, of course, be understood that my new attachment or shoe-heel covering may be made in various shapes or sizes to fit various styles, shapes, and sizes of shoe-heels.

It will further be understood that minor changes in the arrangement, construction, and combination of the several parts of my new attachment or covering may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In an attachment for boots, shoes, and the like, a shell adapted to fit on and embrace the shoe heel, a fixed heel-engaging projection on said shell, resilient means on said shell adapted to frictionally engage with said shoe-heel and coöperate with said projection to detachably hold said shell in operative position on said heel, and a ground-engaging pad carried by said shell; substantially as described.

2. In an attachment for boots, shoes, and the like, a shell adapted to fit on and em-

brace the shoe heel, a fixed heel-engaging projection on said shell, a flat spring on said shell adapted to frictionally engage with said shoe-heel and cooperate with said projection to detachably hold said shell in operative position on said heel, and a ground-engaging pad carried by said shell; substantially as described.

3. In an attachment for boots, shoes, and the like, a shell adapted to fit on and embrace the shoe heel and having a base and a side wall provided below the plane of said base with a horizontally-disposed portion, and a resilient ground-engaging pad conforming approximately to the shape of said base, said pad fitting under said base and being engaged and carried by said horizontally-disposed portion; substantially as described.

4. In an attachment for boots, shoes, and the like, a shell adapted to fit on and embrace the shoe heel and having a base and a substantially U-shaped side wall extended below said base and bent inwardly thereunder to provide a horizontally-disposed substantially U-shaped flange, and a ground-engaging pad conforming approximately to the shape of said base, said pad fitting under said base and being engaged and carried by said flange; substantially as described.

5. In an attachment for boots, shoes, and the like, the combination with a shell adapted to fit on and embrace the shoe heel and having a base and a side wall provided below the plane of said base with a horizontally-disposed portion, of a ground-engaging pad conforming approximately to the shape of said base, said pad being adapted to fit under said base and to be removably engaged and carried by said horizontally-disposed portion; substantially as described.

6. In an attachment for boots, shoes, and the like, the combination with a shell adapted to fit on and embrace the shoe heel and having a base and a substantially U-shaped side wall extended below said base and bent inwardly thereunder to provide a horizontally-disposed substantially U-shaped flange, of a ground-engaging pad conforming approximately to the shape of said base, said pad being adapted to fit under said base and to be removably engaged and carried by said flange; substantially as described.

7. In an attachment for boots, shoes, and the like, the combination with a shell adapted to fit on and embrace the shoe heel and having a base and a substantially U-shaped side wall extended below said base and bent inwardly thereunder to provide a horizontally-disposed substantially U-shaped flange, of a ground-engaging pad conforming approximately to the shape of said base and being adapted to fit under said base and to

be removably engaged and carried by said flange, said pad being provided on its side with a substantially horizontally-disposed groove adapted to receive and cooperate with said flange; substantially as described.

8. An attachment for boots, shoes, and the like comprising a body-portion having a front wall adapted to fit the front face of the shoe-heel, a base adapted to fit the under face of said heel, a substantially U-shaped side wall adapted to fit and embrace the side and rear faces of said heel and having an inturned flange below said base, means adapted to detachably engage with said heel to removably hold said body-portion in operative position thereon, and a resilient ground-engaging portion removably engaging with and carried by said inturned flange below said base; substantially as described.

9. An attachment for boots, shoes, and the like comprising a body-portion having a front wall adapted to fit the front face of the shoe-heel, a base adapted to fit the under face of said heel, a substantially U-shaped side wall adapted to fit and embrace the side and rear faces of said heel and having an inturned flange below said base, a heel-engaging projection on said side wall, a spring on said front wall adapted to cooperate with said projection to detachably hold said body-portion in operative position on said heel, and a resilient ground-engaging portion removably engaging with and carried by said inturned flange; substantially as described.

10. The combination with a shoe heel provided with a recess in its rear face, of a shell adapted to fit on and embrace said heel, a fixed projection on said shell adapted to fit in and removably engage with said recess, resilient means on said shell adapted to bear against and frictionally engage with said heel and cooperate with said projection to detachably hold said shell in operative position on said heel, and a ground-engaging portion carried by said shell; substantially as described.

11. The combination with a shoe-heel provided with a recess in its rear face, of a shell adapted to fit on and embrace said heel, a fixed projection on said shell adapted to fit in and removably engage with said recess, a vertically-disposed flat spring on said shell adapted to bear against and frictionally engage with the front face of said heel and cooperate with said projection to detachably hold said shell in operative position on said heel, and a ground-engaging portion carried by said shell; substantially as described.

12. The combination with a shoe-heel provided with an elongated pocket in its rear face, of a shell adapted to fit on and embrace said heel, a projection on said shell adapted to fit in and removably engage with said

pocket, a leaf-spring on said shell opposite
said projection adapted to bear against and
frictionally engage with the front face of
said heel and cooperate with said projection
5 to detachably hold said shell in operative po-
sition on said heel, and a ground-engaging
portion carried by said shell; substantially
as described.

In testimony whereof, I have signed my
name to this specification, in the presence of 10
two subscribing witnesses.

CHARLIE C. CUMMINGS.

Witnesses:

JESSE A. WOLFORD,
FLORA D. RAYBURN.
