N° 19,362 A.D. 1904

Date of Application, 8th Sept., 1904—Accepted, 13th Oct., 1904

COMPLETE SPECIFICATION.

Improvements in the Construction of Boots, Shoes and the like.

I, ARTHUR GEORGE GRICE, of Yardley, Carnoustie, in the County of Forfar, Scotland, Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:

This invention relates to boots and shoes and particularly to the soles and the heels of these.

The object of my invention is to produce a boot or shoe which will be convenient to wear, which will last a long time and which will permit of the sole and the heel being impervious to water and easy to adjust or repair.

And in order that my said invention and the manner of performing or carrying the same into effect or practice may be properly understood, I have hereunto appended an explanatory sheet of drawings in which the same reference numerals are used to indicate corresponding parts in all the figures where shown, that is to say;—

Figure 1. is a side view of a boot as made in accordance with my invention

Figure 2. is a cross-section at A. A. (Figure 1.)

Figure 3. is a side view of a modified form of boot and

Figure 4. is a view looking on the sole of the boot shown in Figure 3.

Figures 5. 6. 7. and 8. are detail views of the removeable parts of the sole and the heel.

In carrying my invention into effect according to the modification illustrated by Figures 1. and 2. I form the upper or inner sole 10 of the boot or shoe of leather or the like in the usual manner and attached thereto or otherwise form an edging 11. of the same material. Within the recess thus made is placed the removeable or adjustable blocks 12. of wood, rubber, leather, composition or the like, these preferably being approximately of rectangular form for the sole and segmental for the heel except the centre one 13. which is circular, or otherwise such heel pad may be in one piece. These blocks are kept in their places by means of a plate 14. of metal or other suitable material, such as leather, composition, wood or the like, the circular projections 15. passing through corresponding holes in the plate. This plate is attached to the boot or shoe in any suitable manner, such as by screws 16.

Sometimes instead of making the plate 14. in one piece as shown in Figure 1. I may make it in two that is to say the heel may be provided with one plate and the sole with another.

As there might be a danger of a metal plate cracking across the sole through repeated bending I may make such sole plate in two or more parts, for example as shown in Figures 3. and 4. I have shown the sole plate in three parts a mode of construction which adds to the flexibility of the sole.

It is well known that the soles of all boots and shoes wear unequally according to the manner of walking of the wearer and this boot has been specially designed to meet this peculiarity. For example:—Should one side of the heel become more worn than the other, the plate 14. is detached and the heel blocks moved round to opposite positions after which such plate is replaced, the result of such adjustment being that the most worn projections 15. are now where the least worn formerly were. In a somewhat similar manner the sole blocks may be

adjusted. When the parts 15. of the blocks are worn flush with the plate they may be removed and replaced by a new set.

Boots or shoes constructed in the manner described are very light and tend to keep the feet dry as the sole proper is lifted more or less clear of the ground by the projections 15.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is.

(1) In boots and shoes, the use of adjustably held blocks of wood, rubber, leather, composition or the like, as described.

(2). In boots and shoes, the mode of constructing sole or heels by forming recesses into which is placed a number of blocks having projections, these blocks being adjustably held in position by a plate or plates of suitable material as described.

(3) In boots and shoes, the use of two or more plates, as described and for the purposes specified.

Dated this 5th day of September, 1904.

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41 Reform Street, Dundee,
Agents for the Applicant

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GRICE'S COMPLETE SPECIFICATION.

[1 SHEET]

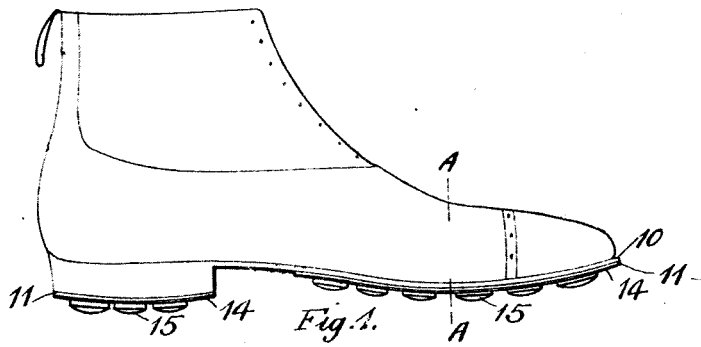


Fig. 1.

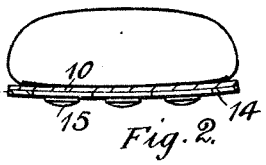


Fig. 2.

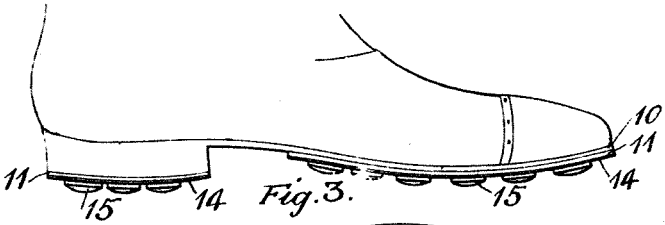


Fig. 3.



Fig. 5.

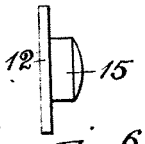


Fig. 6.

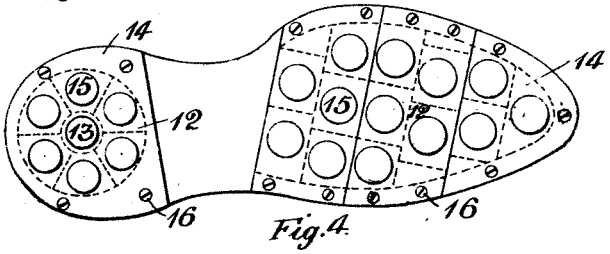


Fig. 4.

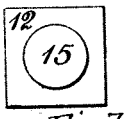


Fig. 7.

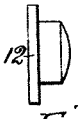


Fig. 8.

[This Drawing is a reproduction of the Original on a reduced scale.]

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