

No. 674,313.

Patented May 14, 1901.

F. G. FURNESS & C. J. W. HANSON.

BOOT OR SHOE HEEL.

(Application filed Feb. 6, 1901.)

(No Model.)

FIG. 1.

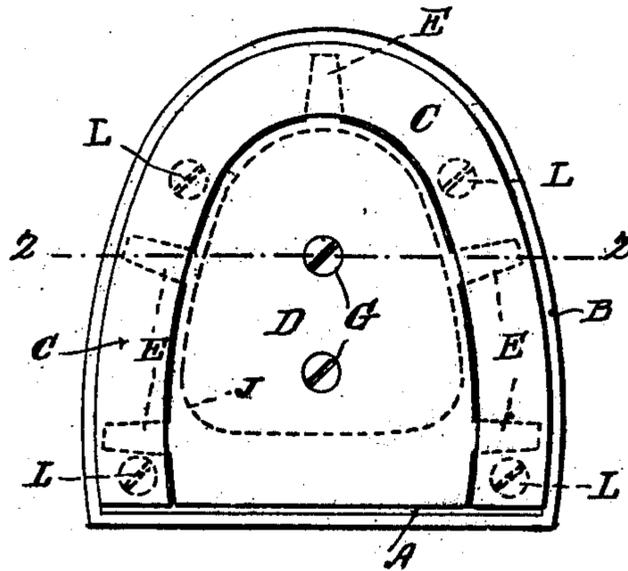


FIG. 2.

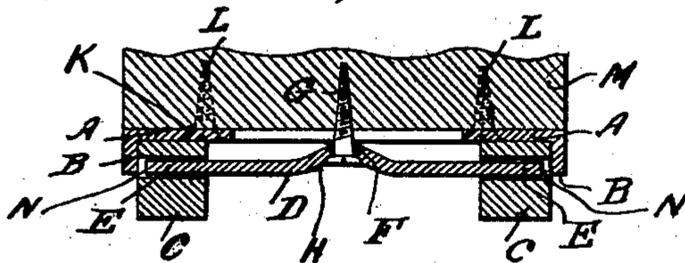
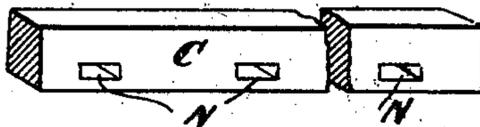


FIG. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

FREDERICK G. FURNESS AND CHARLES JAMES WHISTLER HANSON, OF  
LONDON, ENGLAND.

## BOOT OR SHOE HEEL.

SPECIFICATION forming part of Letters Patent No. 674,313, dated May 14, 1901.

Application filed February 6, 1901. Serial No. 46,256. (No model.)

*To all whom it may concern:*

Be it known that we, FREDERICK GEORGE FURNESS, residing at 43 Lamb's Conduit street, London, and CHARLES JAMES WHISTLER HANSON, residing at 24 Harrington Square, London, N. W., England, subjects of the King of England, have invented certain new and useful Improvements in Boot or Shoe Heels, of which the following is a specification.

10 This invention relates to boot and shoe heels; and the object of the invention is to provide a heel having a removable wearing-face which can be easily renewed by the user at small expense.

15 In the annexed drawings, Figure 1 is an underneath plan view of the heel. Fig. 2 is a cross-section on line 2 2 of Fig. 1. Fig. 3 shows a rubber wearing-piece detached in its natural shape.

20 A is a plate of metal of the shape in plan of a heel and preferably symmetrical, so that it may be used for either the right or left foot. Around its edge the plate A has a flange B, projecting at right angles to the general plane  
25 of the plate and of the same depth all around.

30 C is the wearing-piece, of any desirable material, preferably a straight piece of vulcanized rubber of equal width throughout cut to the required length and of a greater depth than that of the flange B, so that when curved and placed within the flange B, as illustrated in Fig. 1, it may bear flatly on the plate A and against the flange B.

35 D is a plate of such shape as to fit without pressure into the space within the wearing-piece C when the latter is in place within the flange B. From the plate D there project  
40 tongues E in the plane of the plate D and integral therewith, adapted to engage in slots N in the wearing-piece C. In the plate D are holes F for the passage of screws G, and the material of plate D is pressed upward about  
45 said screw-holes, as at H, so that the heads of the screws G may not project beyond the surface of plate D.

50 The plate A is cut away, as indicated by the dotted line J in Fig. 1, partly for the sake of lightness and partly for the free passage of the screws G. In the plate A are the holes K for the passage of screws L, by which the plate A is fastened to the foundation M of the

heel of the shoe or boot. In assembling these parts the plate A is fastened to the foundation M by means of the screws L and is intended to remain a permanent fixture of the  
55 boot or shoe. The wearing-piece C is cut to the right length and slots N made therein at suitable places. It is then curved about the plate D, so that the tongues E enter the slots N, and the plate D and wearing-piece C are  
60 placed together within the flange B of plate A. The plate D is then secured by the screws G. The lower face of plate D should preferably be level with the edge of flange C, so that only the wearing-piece C projects to form  
65 the wearing-surface. When the latter has worn down to the level of flange C, the wearing-piece is intended to be replaced by a new one.

What we claim is—

70 1. In a boot or shoe heel, the combination with a heel-foundation, of a flat annular metal plate A having a flange B around its exterior edge and adapted to be fastened to the heel-foundation, a wearing-piece of greater depth  
75 than said flange, and adapted to lie within it and against said plate A, and a plate D within said wearing-piece and engaging the same, and means for securing said plate D directly to the heel-foundation and for pressing the  
80 upper face of the wearing-piece upwardly against plate A, substantially as set forth.

85 2. In a boot or shoe heel, the combination with a heel-foundation, of a metal plate A having a rectangularly-projecting flange B around its exterior edge and adapted to be fastened to the heel-foundation, a wearing-piece of greater depth than said flange, and adapted to lie within it and against said plate  
90 A, a holder adapted to fit within said wearing-piece in the same plane as the flange B and adapted to engage said wearing-piece, and means for securing said plate D directly to the heel-foundation, substantially as set forth.

95 3. In a boot or shoe heel, the combination with a heel-foundation, of a flat annular metal plate A having a rectangularly-projecting flange B around its exterior edge and adapted to be fastened to the heel-foundation, a wearing-piece of greater depth than said flange,  
100 and adapted to lie within it and against said plate A, a plate D adapted to fit within and

engaging said wearing-piece, having holes F with sunken edges, and screws G for securing said plate D directly to the heel-foundation and pressing the upper face of the wearing-piece upwardly against plate A, substantially as set forth.

4. In a boot or shoe heel, the combination with a heel-foundation, of a flat annular metal plate A having a rectangularly-projecting flange B around its exterior edge and adapted to be fastened to the heel-foundation, a wearing-piece of greater depth than said flange, and adapted to lie within it and against said plate A, said wearing-piece having slots N, a plate D adapted to fit within said wearing-

piece, having holes F with sunken edges and tongues E for engaging said slots N, said tongues being in the same plane as the plate D, and screws G for securing said plate D directly to the heel-foundation and for pressing the upper face of the wearing-piece upwardly against plate A, the whole substantially as set forth. 20

In witness whereof we have signed this specification in the presence of two witnesses. 25

F. G. FURNESS.

C. J. WHISTLER HANSON.

Witnesses:

R. HADDAN,

A. C. MITCHELL.