

Improvement in Boot and Shoe Heels.

119,021.

Patented Sep. 19, 1871.

Fig. 1.

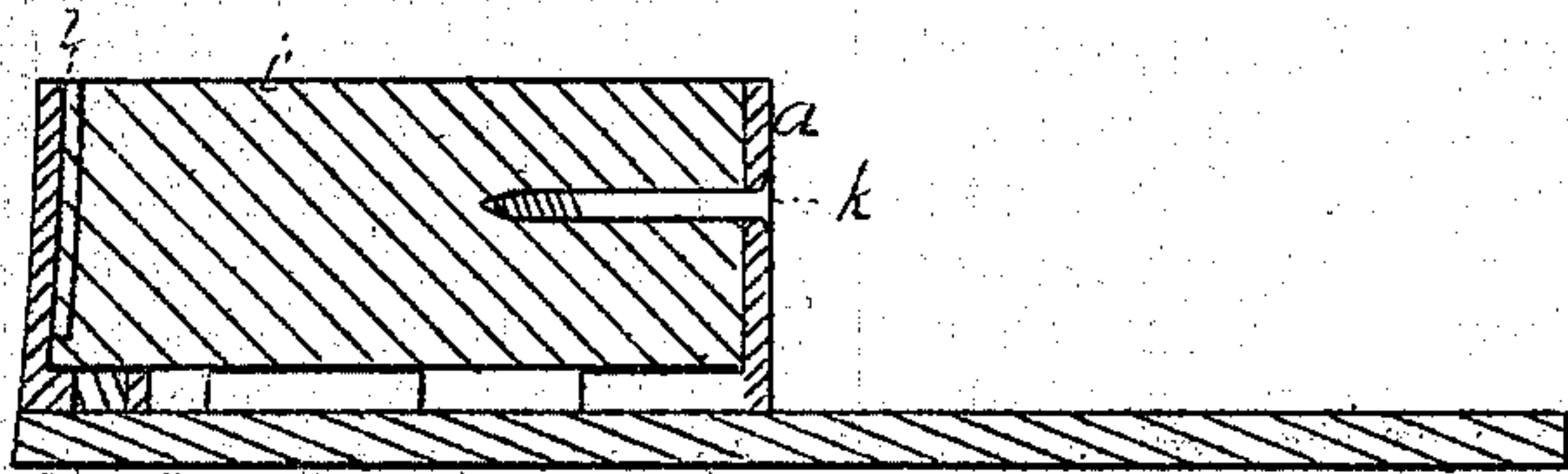
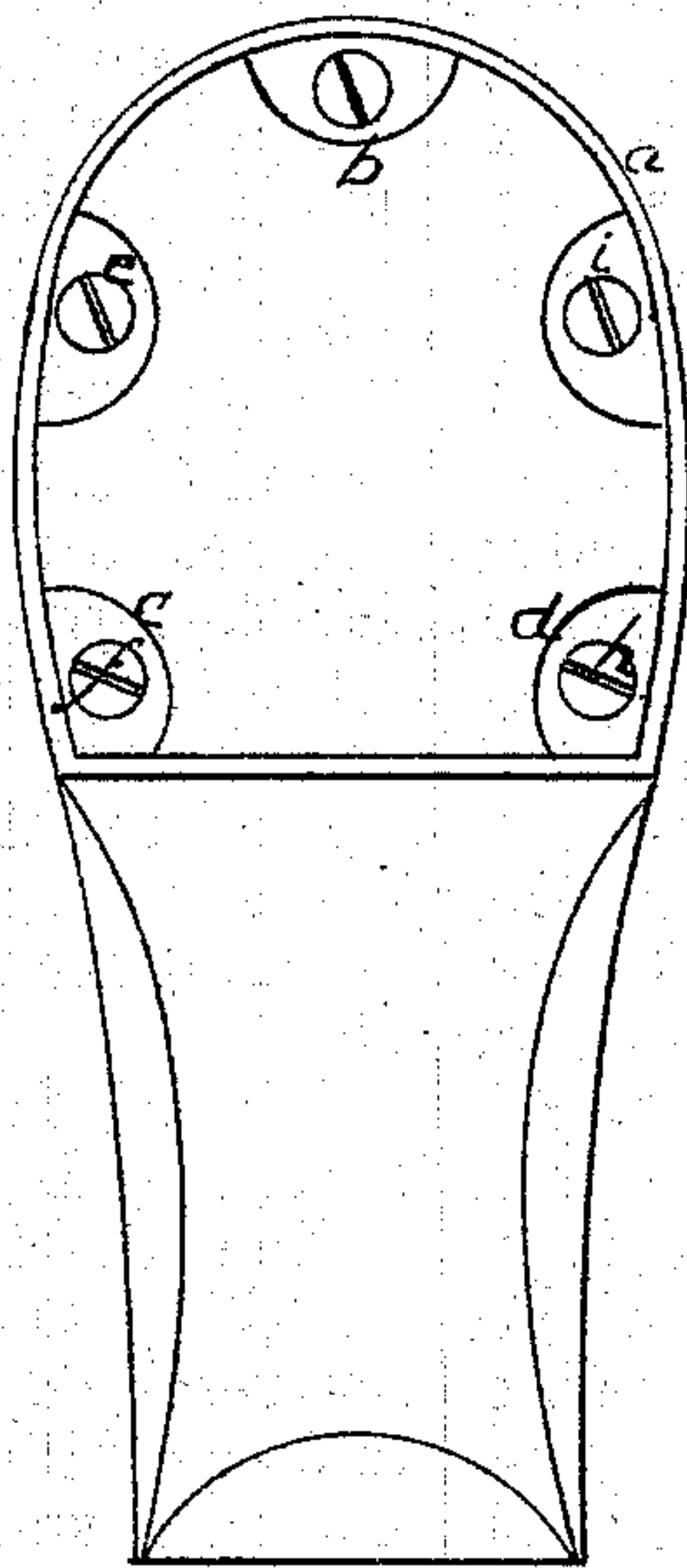


Fig. 2.



Witnesses:

George E. BirdEzra Calderwood

Inventor:

Geo F. FlingPer Wm. R. Clifford att'y

UNITED STATES PATENT OFFICE.

GEORGE F. FLING, OF PORTLAND, MAINE.

IMPROVEMENT IN BOOT AND SHOE-HEELS.

Specification forming part of Letters Patent No. 119,021, dated September 19, 1871.

To all whom it may concern:

Be it known that I, GEORGE F. FLING, of Portland, in the county of Cumberland and State of Maine, have invented a new and useful Improvement in Metallic Heels for Boots and Shoes; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a longitudinal section. Fig. 2 is a bottom view, with the wood filling removed so as to show the interior.

Same letters show like parts.

My invention relates to metallic heels for boots and shoes.

I first construct or cast a hollow metallic heel, open at the bottom and top, so that when so cast it consists merely of a shell of metal in the ordinary form of boot and shoe-heels, with the exception of the five flanges cast on the inside of the shell, near to or flush with the upper edge of the shell. Through these flanges are holes for the entrance of the screws that secure the metallic shell to the heel part of the boot or shoe. The hollow of the metallic shell is then closed or filled with a piece of wood corresponding in shape to the hollow of the said shell. This block may extend quite up to the bottom of the heel-part of the shoe, or only a portion of the distance.

a shows the metallic shell. *b c d e i* show the flanges. *e f h* show the screws. *i'* shows the wooden filling. The metallic shell is placed in proper position on the shoe and the screws *e f h* passed through the holes in the flanges and screwed into the leather of the sole of the shoe. The wooden filling is then introduced. The convenience of the wooden block is apparent, being cheap, and easily fitted and supplied when worn. The flange *b* is placed across the curve of the back part of the shell. *c* and *d* are placed across the corners of the front end, as illustrated. *k* shows a screw entering the front wall of the metal shell and entering also the wooden filling of the same. *l* shows a backing of lead on the filling, to relieve the concussion in walking.

I do not claim such a device as that shown in

Letters Patent No. 48,266 granted to Edwin Dunbar; nor such as that claimed by Denis Lennain in Letters Patent No. 32,300. In neither of these inventions is it designed that the metal shell should receive the wear; but in the former the wear is received upon a block of wood; in the latter, upon a piece of leather, to be replaced when worn out. The purposes of these inventions being so entirely different from mine it is unnecessary to notice differences of attachment or construction. The Letters Patent of Onesippe Pacalin, No. 55,698, shows a sole riveted between two plates, the heel-socket being secured to the lower plate by a bolt, and a heel-socket bolted to the upper plate. Such a device I do not claim, nor the combination of the inner and outer plates *A B*, heel-socket *E*, plug *G*, bolt *H*, and fastenings *D D*, &c., constructed and arranged substantially as described and represented. I am also aware of Letters Patent No. 37,233, granted to Oliver Lafreniere, which is for a device very similar to the last, consisting of a curved plate or shank, a grooved heel-frame secured to this plate, and a filling for the socket secured by a bolt inserted from above, and being thus irremovable. The three last cases above cited show devices entirely different from mine in construction, as they can be used only in conjunction with the sole-plates; nor do any of the cases cited show any backing of lead, as shown in mine, for the purpose of relieving the concussion.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of a metallic shell, *a*, open at both top and bottom, and provided with the flanges *b c d*, arranged as set forth, with the removable filling *i* of wood and backing *l* of lead, when the same is to be affixed to a boot or shoe by the screws *e, f, h*, and *k*, as herein set forth.

Portland, June 21, 1871.

GEO. F. FLING.

Witnesses:

WM. HENRY CLIFFORD,
GEORGE E. BIRD.

(13.)