

(No Model.)

O. ZIETZ.
HEEL FOR BOOTS OR SHOES.

No. 460,904.

Patented Oct. 6, 1891.

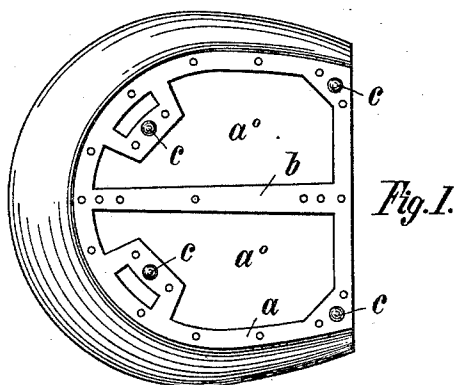


Fig. 1.

Fig. 2.

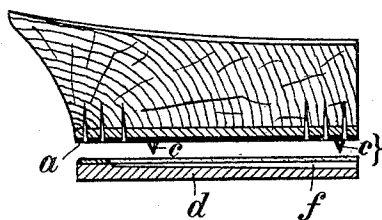


Fig. 3.

Fig. 4.

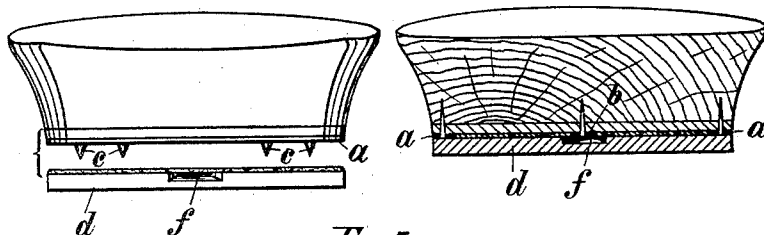
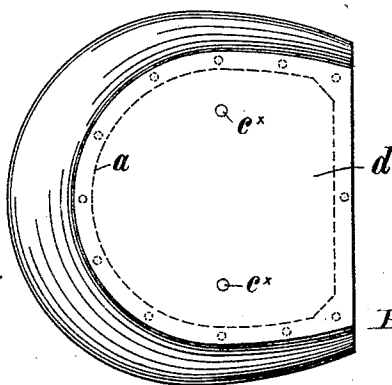


Fig. 5.



Witnesses.

Charles A. Rysdysburg
J. H. Rysdysburg

Inventor.

Otto Zietz
By Raine Lloyd
attys.

UNITED STATES PATENT OFFICE.

OTTO ZIETZ, OF HAMBURG, GERMANY.

HEEL FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 460,904, dated October 6, 1891.

Application filed August 7, 1890. Serial No. 361,260. (No model.) Patented in France July 4, 1890, No. 206,810; in England July 7, 1890, No. 10,519, and in Austria-Hungary December 3, 1890, No. 30,248 and No. 56,929.

To all whom it may concern:

Be it known that I, OTTO ZIETZ, a subject of the Emperor of Germany, and residing at Hamburg, in the Empire of Germany, have invented certain new and useful Improvements in Heels for Boots or Shoes, (for which Letters Patent were granted in France July 4, 1890, No. 206,810; in England July 7, 1890, No. 10,519, and in Austria-Hungary December 3, 1890, No. 30,248 and No. 56,929,) of which the following is a specification.

My invention relates to an improved heel for boots and shoes; and its object is to provide a heel so constructed that the bottom lift, when worn down, may be easily and quickly replaced by a new one without in any way damaging the heel, and thus obviating the necessity of entirely reheeling the boot or shoe. I attain this object by inserting a metallic plate or skeleton frame between the wood, leather, or composite heel and the bottom or covering lift and attaching the latter to the heel with an adhesive, in the manner hereinafter described and illustrated in the accompanying drawings, in which—

Figure 1 is a view of the heel, seen from underneath, with the bottom lift removed to show the said metallic plate; Fig. 2, a vertical section through the heel; Fig. 3, a front elevation with the bottom lift unattached; Fig. 4, a transverse section showing the bottom lift attached in position, and Fig. 5 the finished heel seen from underneath.

Similar letters denote similar parts throughout the several views.

The skeleton-frame plate *a* is made to fit the bottom surface of the heel exactly, and is attached to the same by brads, screws, or in any other convenient and effective manner. The plate is cut to form a frame around the edges of the heel and provided with a cross-piece *b*, connecting the breasting side and back of the frame, so that the parts *a° a°* of the under surface of the wood, leather, or composite heel remain uncovered. It is advisable to provide the frame *a* with short spikes *c c* for piercing the bottom lift and preventing it from getting displaced while the adhesive is drying.

d is the bottom lift, having a flat groove in its upper surface at *f* extending from the heel-breasting nearly to the back rand, and corresponding in its direction to that of the cross-piece *b*. Its upper surface is covered with an adhesive—such as leather-size. The lift is applied and removed in the following manner: The adhesive on the lift is softened by being moistened and the latter applied to the heel, when the glue or size will stick to the surfaces *a° a°* of the heel, holding the lift firmly in place. On being worn down, the old lift may be easily removed by inserting a sort of chisel or screw-driver into the groove *f* at the heel-breasting and wrenching it off. No damage whatever will be caused to the heel by removing the lift in this manner, as the tool or instrument used operates against the metallic cross-piece *b*, and not against the wood, leather, or composite heel.

If a very thin covering-lift be used, the spikes *c c* may be dispensed with and the lift held in place while the adhesive dries by a couple of wire brads *c° c°*, driven through it into the heel from underneath. In such cases the cross-piece *b* is also unnecessary, as the metallic frame alone forms a sufficient support for the tool on removing the lift.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A heel having attached to its under surface a skeleton frame-plate *a*, having a cross-piece *b* and spikes *c c*, in combination with a covering-lift *d*, having a groove *f* and provided with an adhesive on its upper surface, in the manner and for the purpose substantially as described and shown.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 5th day of July, 1890.

OTTO ZIETZ.

Witnesses:

ALEXANDER SHESLER,
RICHARD KANTZ.