

JOHN GIBSON, Jr.

Soles and Heels for Boots and Shoes.

No. 124,127.

Patented Feb. 27, 1872.

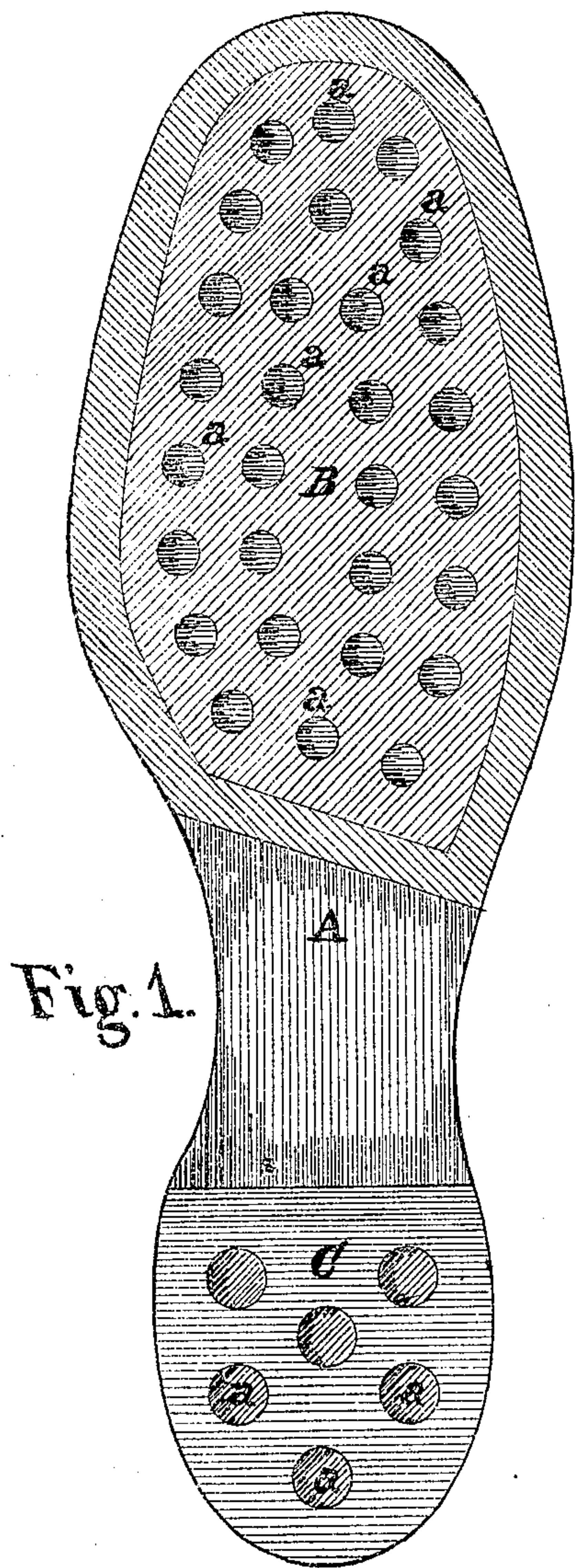


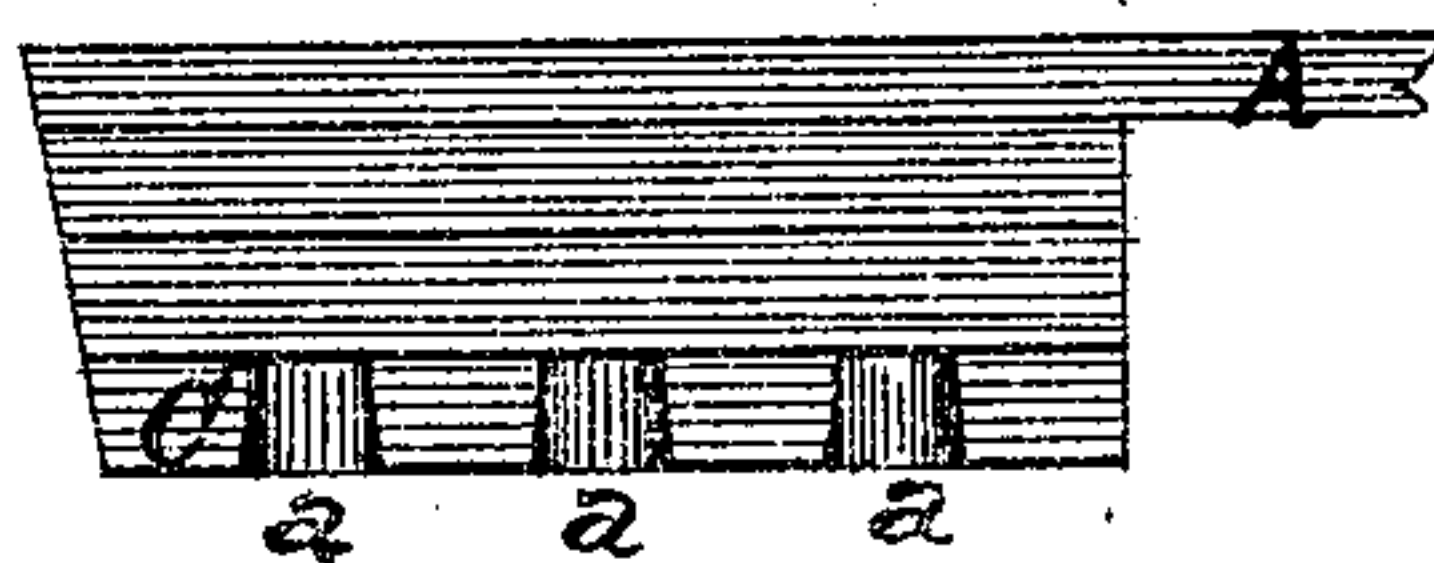
Fig. 2.



Fig. 3.



Fig. 4.



Witnesses

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## IMPROVEMENT IN SOLES AND HEELS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 124,127, dated February 27, 1872.

*To all whom it may concern:*

Be it known that I, JOHN GIBSON, Jr., of the city and county of Albany and State of New York, have invented a new and useful Improvement in Soles and Heels for Boots and Shoes; and I do hereby declare that the following is a description thereof, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 represents a vertical view of the sole of a boot or shoe, with the heel attached, illustrating the improvement. Fig. 2 is a longitudinal vertical view of the said sole. Fig. 3 is a longitudinal vertical view of a modification of the invention. Fig. 4 is a longitudinal vertical section of a heel, illustrating a modification of the invention applied thereto.

The nature of my invention consists in so forming the soles or heels of boots and shoes that they will be capable of always presenting and maintaining in their wear an uneven or irregular face.

This uneven or irregular face I secure by means of an outer or wearing sole, made of rubber, leather, or other suitable material, furnished with perforations; or by an outer sole furnished with deep cavities, in lieu of perforations; or by a combination of both such perforations and deep cavities in the same sole.

The object of this invention is to furnish the outer soles or heels of boots and shoes with an uneven wearing-surface, which uneven surface will be maintained until the sole or heel is quite worn out, and thus, under every circumstance and at all stages of its wear, present to the surface walked upon a contacting surface that will not, by its wear, become even or smooth, thus always insuring to the wearer a safe foot-hold, secure from the danger of slipping.

To enable others skilled in the art to make and use my invention, I will proceed to describe it in reference to the drawing and the letters of reference marked thereon, the same letters indicating like or similar parts.

In the drawing, A represents the inner sole of a boot or shoe, to which the "uppers" are attached by pegging or otherwise. B represents the outer or wearing sole; and C repre-

sents a heel constructed according to one of the modifications of this invention.

As this invention relates only to securing in a wearing or outer sole or heel a permanent uneven surface throughout all their wear, and such uneven surface could be secured and maintained by any of the modifications shown in Figs. 1, 2, 3, and 4, I would use either or any of the same, either in combination or separately.

The wearing-sole B, Figs. 1 and 2, consists in a sole of leather or rubber, or other suitable material, furnished with perforations, *a a*, placed at such intervals as would leave sufficient material for wear. The said perforations (being in form, size, and arrangement unlike the usual slight indentations made on the wearing-face of rubber soles) will always preserve an uneven surface throughout its wear, while the slight indentations now made in rubber soles, as above referred to, are entirely effaced, and the soles become smooth by a few days' wear. The sole B', instead of being perforated entirely through, as in Fig. 2, may have sunk in it deep cavities, *c*, as shown in Fig. 3, which cavities *c* will be the same in permanent result as the perforations *a* in Fig. 2. The heel C, Fig. 4, may, like the sole in Fig. 2, be furnished with perforations *a*; or may be furnished with deep cavities, as sole in Fig. 3.

In this invention, and in the use of the perforations *a* or cavities *c*, as shown in Figs. 1, 2, 3, and 4, I do not confine myself to use any particular size, form, or number of perforations or cavities, or to any regularity of arrangement of the same in any given case, but would variously adapt the said perforations or cavities in their several features to the kind of boot or shoe to which the improvement is applied.

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

In soles or heels of boots and shoes, the perforations *a* or the cavities *c*, substantially in the manner set forth, for the purpose specified.

JOHN GIBSON, JR.

Witnesses:

M. S. HOLLANDS,  
A. L. VAN ZANDT.