

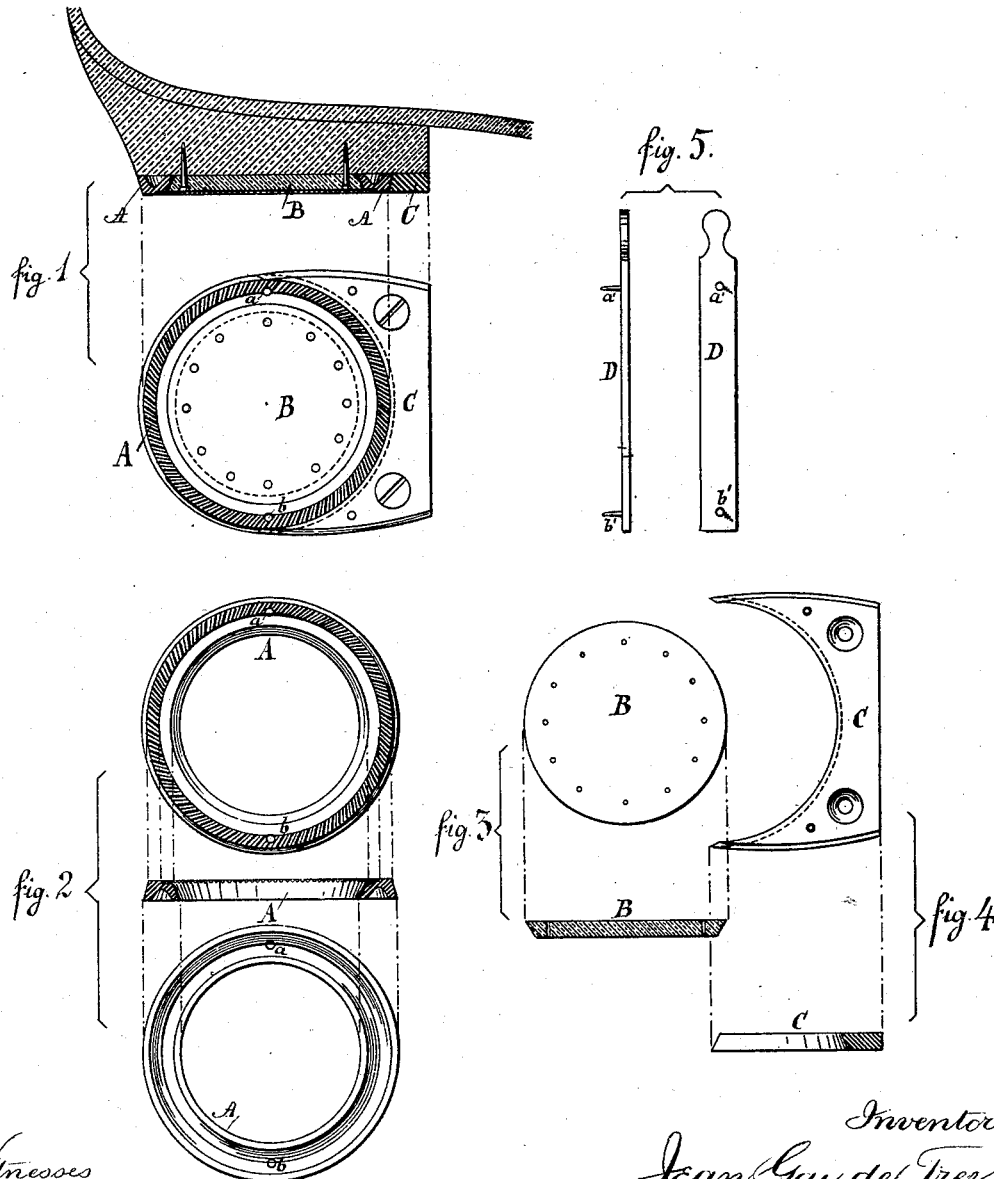
(No Model.)

J. GAY DE TREZ.

HEEL FOR BOOTS AND SHOES.

No. 264,029.

Patented Sept. 5, 1882.



Witnesses

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UNITED STATES PATENT OFFICE.

JEAN GAY DE TREZ, OF GENEVA, SWITZERLAND.

HEEL FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 264,029, dated September 5, 1882.

Application filed March 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, JEAN GAY DE TREZ, a citizen of France, residing in Geneva, in Switzerland, have invented a new and useful Improvement in Heels for Boots and Shoes, of which the following is a specification.

My improved heel is devised with a view to secure to all kinds of shoes durability by preventing the heel from being strained or crooked and wearing without materially increasing the weight of the shoes, and without being liable to injure the flooring or carpets, or to slip on stone or on iron.

In the drawings, Figure 1 shows the section of a shoe-heel provided with my trimming, and an inverted plan of the same. Figs. 2, 3, and 4 show the three pieces A, B, and C which make up my trimming; and Fig. 5 represents a key, the use of which is explained farther on.

The ring A is of metal, either tempered or untempered steel, yellow brass, &c. It is beveled inside and out, and provided with corrugations or fine teeth on its surface to prevent the same becoming smooth and slippery. It is, moreover, provided with a circular grooving, the purpose of which is to cause the surface of the ring next the leather of the heel to embed itself into such leather.

The ring A—such as I have described—is placed under the heel in the manner shown in Fig. 1. It is secured by means of the beveled

washer B, made of caoutchouc, leather, or any similar material within the ring, and by the metallic piece C, which is outside of the ring, and provided at its half-circular part with a beveling edge corresponding with the outside edge of the ring A. These two pieces B and C are secured to the heel by means of common tacks and screws.

The ring A is provided with two little holes, *a* and *b*, which are intended to receive the pins *a'* and *b'* of the key D, Fig. 5. By means of this key it is easy to partially turn the ring A. By repeating this operation from time to time the metallic part of the heel will wear equally all around it everywhere.

The holes *a* and *b* in the ring A may be replaced by a notch for permitting the ring A to be turned by any suitable instrument.

I claim as my invention—

In combination with the plate C and disk B, permanently attached to the heel, the ring A, beveled on its outer and inner edges, so as to be held by the disk B and plate C, and having a roughened exterior surface and grooved upon its upper surface, so that the ring embeds itself into the leather, substantially as set forth.

JEAN GAY DE TREZ.

Witnesses:

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