

(No Model.)

W. A. INGALLS.

Metallic Plate for the Soles of Boots and Shoes.

No. 238,394.

Patented March 1, 1881.

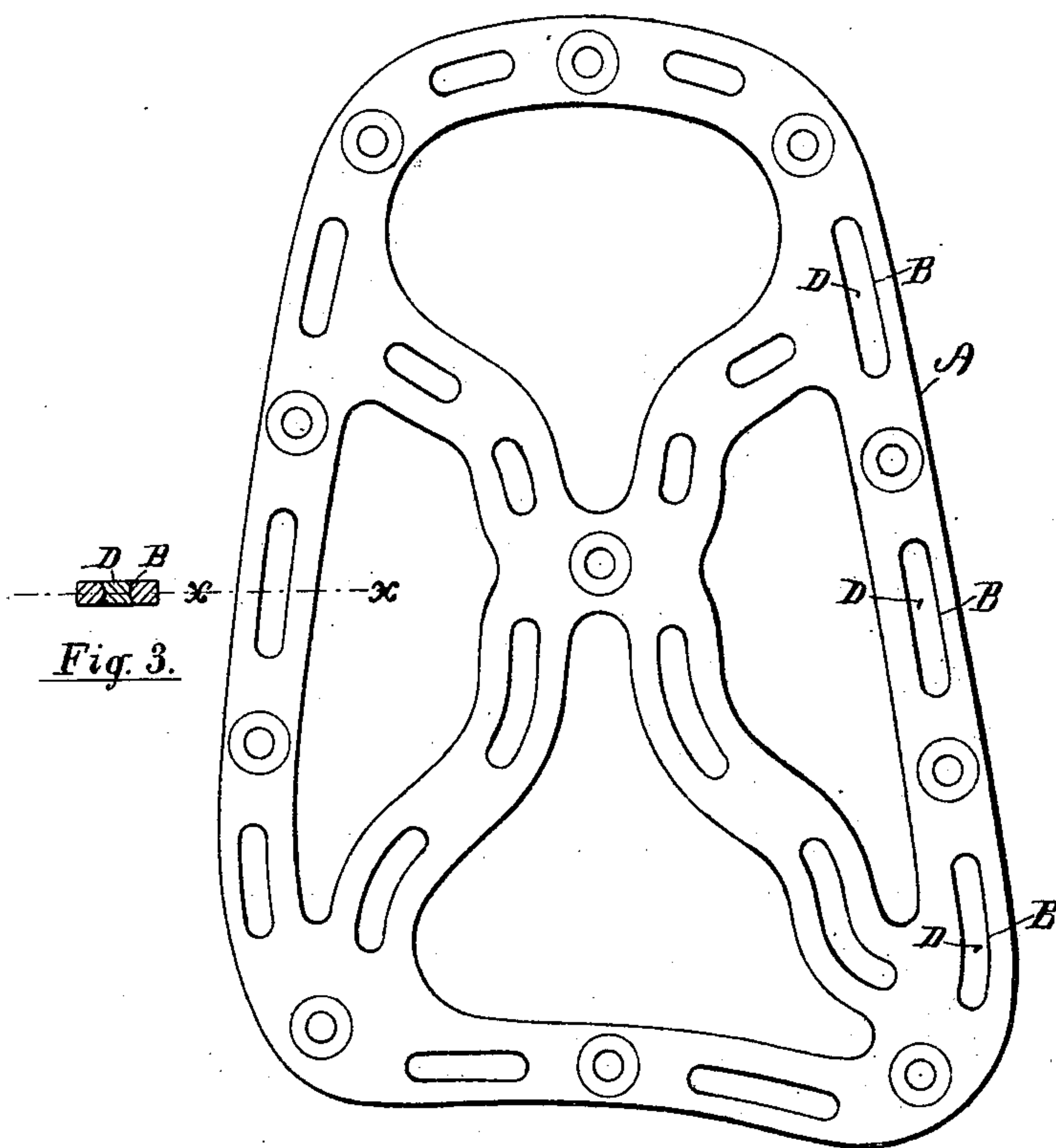


Fig. 3.

Fig. 1.



Fig. 2.

Witnesses.

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WILLIAM A. INGALLS, OF PROVIDENCE, RHODE ISLAND.

METALLIC PLATE FOR THE SOLES OF BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 238,394, dated March 1, 1881.

Application filed January 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. INGALLS, of Providence, in the State of Rhode Island, have invented an Improvement in Metallic
5 Plates for Protecting the Soles of Boots and Shoes, of which the following is a specification.

The nature of my invention consists in combining two or more metals in a metallic plate
10 for protecting the soles of boots and shoes in order to deaden the sound produced when walking upon hard substances, and to prevent slipping.

Figure 1 represents a plan view of the improved protecting-plate. Fig. 2 represents an
15 edge view of the same. Fig. 3 represents a section taken in the line *xx* of Fig. 1.

In the accompanying drawings, A represents a half-sole plate, cast or stamped, of
20 iron, brass, or other suitable metal, preferably made in the form of an open frame, as shown. Around the frame A are made the elongated holes B B B, provided with rounded or beveled edges, as shown in the section, Fig. 3.

These holes are to be filled with an alloy of 25 the readily-fusible metals, tin, zinc, lead, and antimony, thus deadening the sound, by combining in the same plate a frame of one metal filled at the holes B B B with another metal or with an alloy of different metals, and the 30 unequal qualities of the metal of the frame A and the inserted metal D will cause the plate to wear unevenly upon its surface, thus preventing slipping.

The half-sole A is to be attached to the shoe 35 by means of nails or screws in the usual manner, and the plate or frame is reversible, being thus adapted to both right and left hand boots and shoes.

I claim as my invention—

40 For protecting the soles of boots and shoes, a metallic plate provided with openings filled with a readily-fusible metal or alloy, substantially as and for the purpose specified.

WILLIAM A. INGALLS.

Witnesses:

JOSEPH J. SCHOLFIELD,
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