

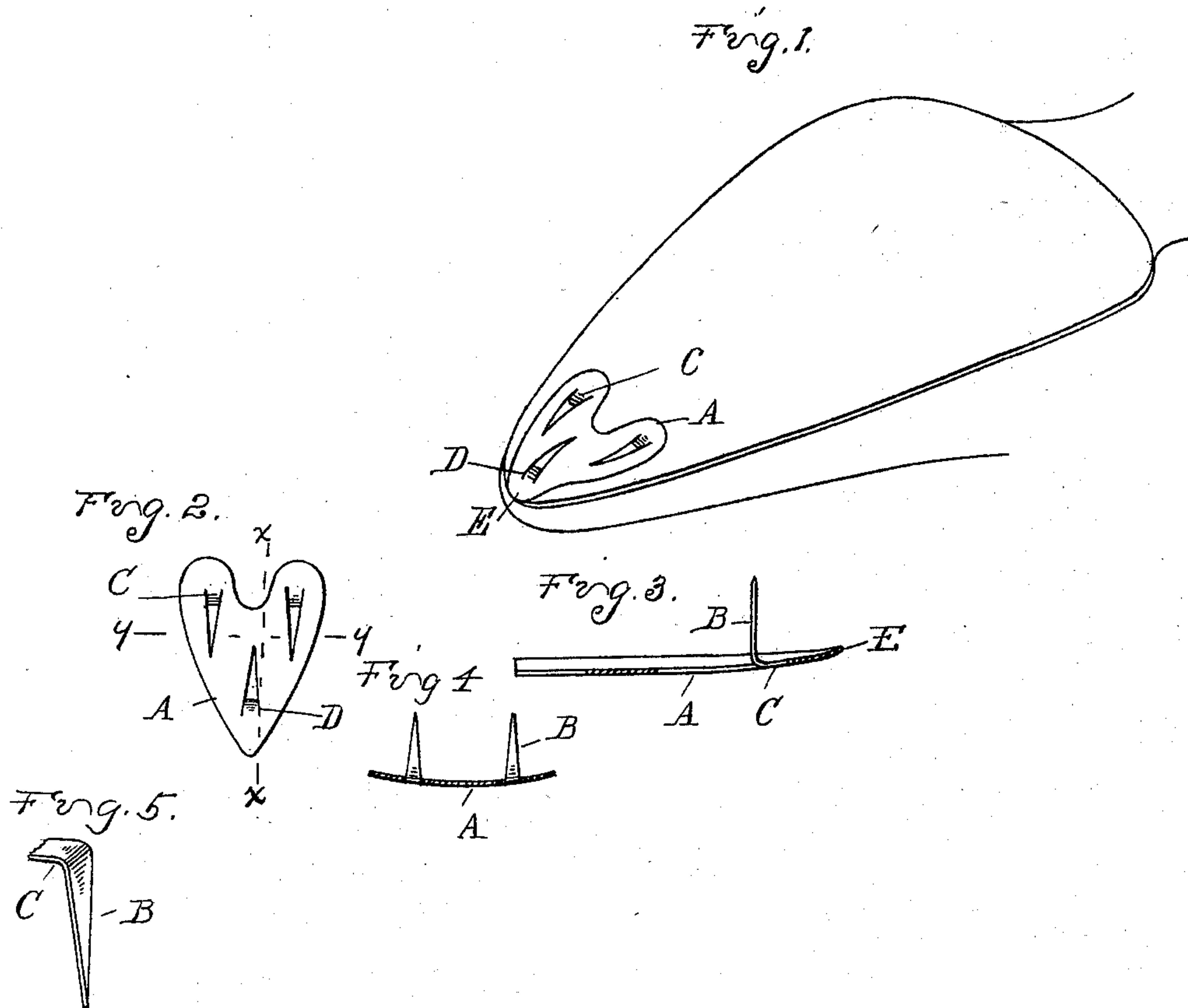
No. 610,043.

Patented Aug. 30, 1898.

H. G. H. GLASS.
PROTECTING PLATE FOR SHOES.

(Application filed Nov. 5, 1897.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

HERBERT G. H. GLASS, OF DETROIT, MICHIGAN.

PROTECTING-PLATE FOR SHOES.

SPECIFICATION forming part of Letters Patent No. 610,043, dated August 30, 1898.

Application filed November 5, 1897. Serial No. 657,465. (No model.)

To all whom it may concern:

Be it known that I, HERBERT G. H. GLASS, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Protecting-Plates for Shoes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in the construction of a protector-plate for shoes, and particularly in so constructing it that it is adapted for use on thin flexible soles, all as more fully hereinafter described.

15 In the drawings, Figure 1 is a perspective view of my device as in use on a shoe. Fig. 2 is a bottom plan view thereof. Figs. 3 and 4 are sections on lines *xx* and *yy*, respectively, in Fig. 2. Fig. 5 is an enlarged perspective view of one of the teeth, illustrating the manner in which a spring-tongue is formed to connect the tooth to the plate.

25 It is desirable to place a thin metal plate on the sole of ladies' shoes where the soles are thin and flexible. These plates not only protect the point of the shoe, but also the foot of the wearer. In putting on such plates it has been found impossible to secure them with teeth struck out from the plate in the ordinary way, as the teeth break off because of the bending of the soles. I overcome this trouble in the following manner:

30 A is the plate. B are the teeth struck out therefrom and adapted to be forced through

the sole and turned over to secure the plate 35 in position. This tooth is connected to the plate by a flexible or elastic tongue C. This I preferably do by cutting the slots D on each side through the plate in line with the sides of the point. I find this flexible connection 40 of the tooth to the plate overcomes the difficulty of the tooth breaking off without in any way detracting from the security of the holding means.

As a protector I stiffen the plate by dish- 45 ing it transversely, as shown in Fig. 4. Without increasing the weight this materially stiffens the plate as a protector against "stubbing" the toe. I also turn up the point, as shown at E. 50

What I claim as my invention is—

1. In a protector for shoe-soles, a metallic plate, teeth struck out therefrom to form securing means therefor, and a flexible connection between the teeth and plate. 55

2. A toe-protector for shoe-soles, comprising a sheet-metal plate, teeth struck up therefrom to form securing means therefor, and a flexible connection between the teeth and plate formed by an extension of the tooth in 60 the plane of the plate, by cutting slits D, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HERBERT G. H. GLASS.

Witnesses:

M. B. O'DOHERTY,
OTTO F. BARTHEL.