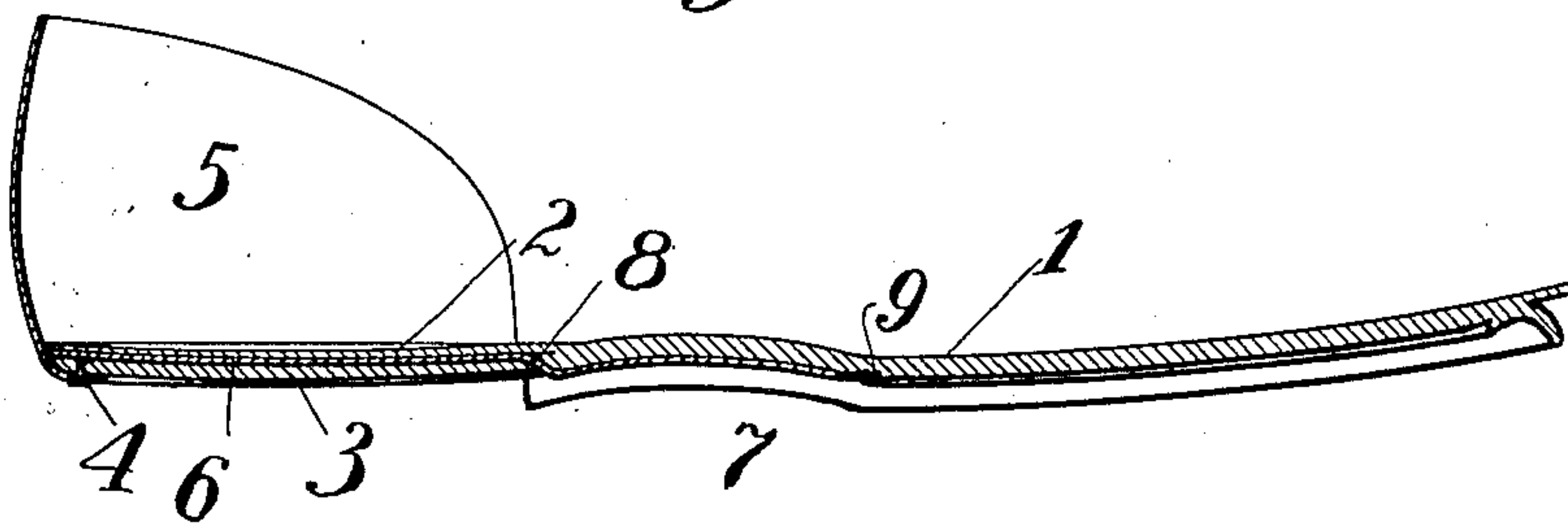
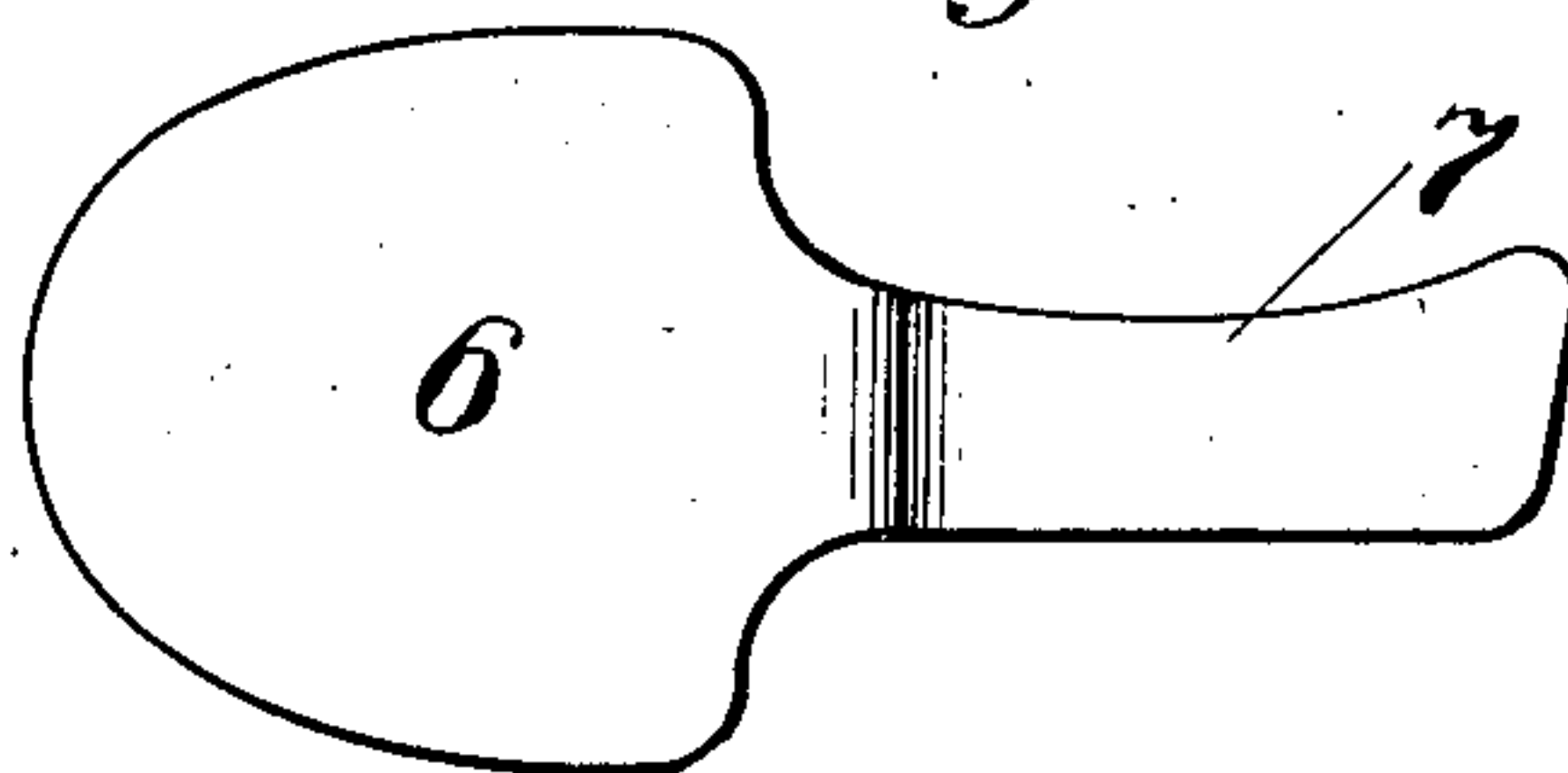
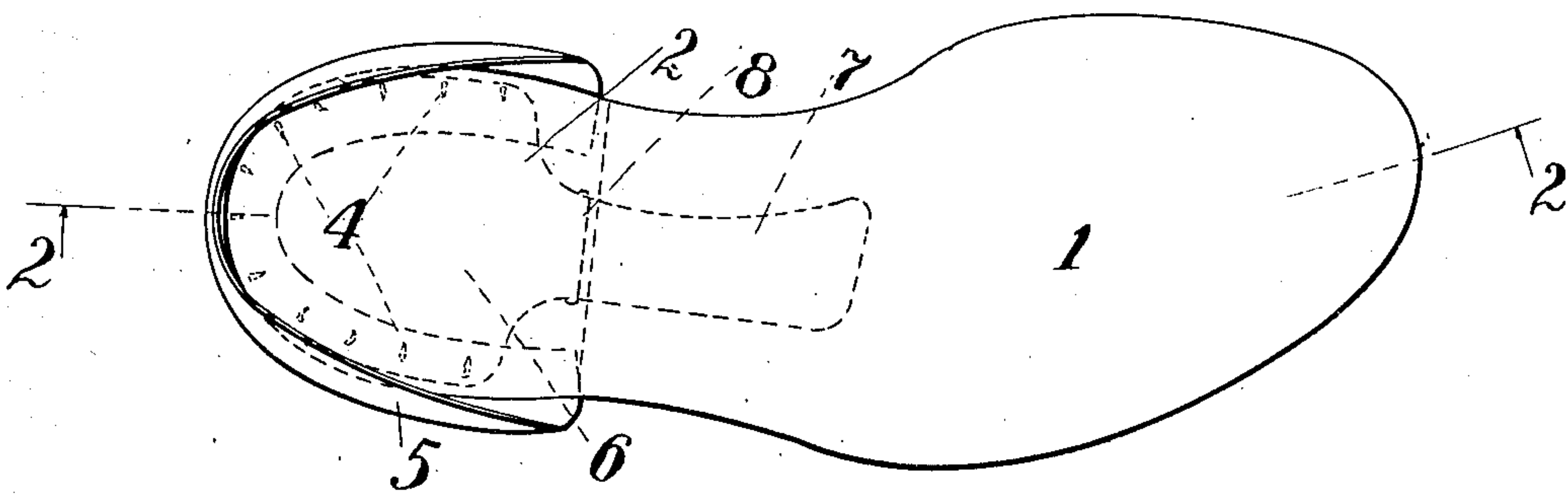


SHOE SOLE.

913,167.

Patented Feb. 23, 1909.



Edwin Phelps.
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UNITED STATES PATENT OFFICE.

ROBERT C. ROSS, OF WILMETTE, ILLINOIS.

SHOE SOLE

No. 913,167.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed September 21, 1908. Serial No. 454,075.

To all whom it may concern:

Be it known that I, ROBERT C. ROSS, a citizen of the United States of America, and a resident of Wilmette, Cook county, Illinois, have invented certain new and useful Improvements in Shoe-Soles, of which the following is a specification.

The main objects of this invention are to provide improved means for affording complete protection against the puncturing of the insole by the nails in the heel portion of the sole; and to provide an improved shield for this purpose having an extension adapted to perform the function of the usual spring tongue in the instep of the sole. These objects are accomplished by the device shown in the accompanying drawing, in which,—

Figure 1 is a top plan of a shoe-sole constructed according to this invention. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a plan of the shield plate.

The drawings show only such parts of the shoe as have a direct bearing on this invention.

In the construction shown in the drawings the insole 1 is of the usual form except that it has the heel portion throughout the nailing surface split open between its upper and lower faces to form the flaps or parts 2 and 3. The parts which are usually nailed to the insole, as for instance the inwardly flanged edges of the part 5, are in this construction nailed to the lower flap 3 only, the nails 4 being clenched on the upper surface of the part 3.

A shield plate 6 is interposed between the parts 2 and 3 and prevents the upper part 2 from being punctured by the nails 4. The shield plate 6 has an extension or tongue 7 which extends through a slit 8 in the part 3 and then along the under surface of the insole. The tongue 7 is tempered so as to serve as a spring for the instep of the sole. A recess 9 is cut in the under side of the insole 1 into which the end of the tongue 7 is inserted, thereby forming a support for the forward end. The plate 6 is also made slightly concave upwardly, as shown in Fig. 2, to conform to the shape of the wear-

er's foot and the shank 7 is arched in the usual manner. The shank 7 is offset where it passes through the slit 8 so as to avoid distortion of the upper surface of the insole. The plate 6 serves to clench any nails which may be driven too deeply in securing the heel to the sole; and it also prevents the nails of the heel from afterward working upward through the insole while the shoe is in use.

What I claim as my invention and desire to secure by Letters Patent is,

1. In a shoe, the combination of an insole having the heel portion thereof split between its upper and lower surfaces to form two flaps connected together at the front of the heel, the lower flap being adapted to have parts of the shoe nailed thereto, and a metal shield permanently interposed between said flaps and adapted to protect said upper flap from being punctured by the nails in said lower flap, said shield having a shank extending through said lower flap and then extending along the under side of the instep of said insole.

2. In a shoe, the combination of an insole having the heel portion thereof split between its upper and lower surfaces to form two flaps connected together at the front of the heel, the lower flap being adapted to have parts of the shoe nailed thereto and having a narrow slit therethrough, said slit being disposed along and adjacent to the front of the heel, and a metal shield permanently interposed between said flaps and adapted to protect said upper flap from being punctured by nails in said lower flap, said shield having a shank at its forward end extending through said slit and then extending along the under side of the instep of said insole, said shank being offset at said slit to avoid distortion of the upper surface of said insole.

3. In a shoe, the combination of an insole having the heel portion thereof split between its upper and lower surfaces to form two flaps connected together at the front of the heel, the lower flap being adapted to have parts of the shoe nailed thereto, and a metal shield permanently interposed between said

flaps and adapted to protect said upper flap
from being punctured by the nails in said
lower flap, said shield having a shank ex-
tending through said lower flap and then ex-
5 tending along the under side of the instep of
said insole, said insole having therein a re-
cess in its under side adjacent to the front
end of the shank and adapted to serye as a

seat for said front end for securing it to the
insole. 10

Signed at Chicago this 18th day of Sep-
tember, 1908.

ROBERT C. ROSS.

Witnesses:

O. F. PURCELL,
H. R. REDFIELD.