J. FARRELL.

BOOT OR SHOE.

APPLICATION FILED JUNE 25, 1908.

921,602.

Patented May 11, 1909.

2 SHEETS—SHEET 1.

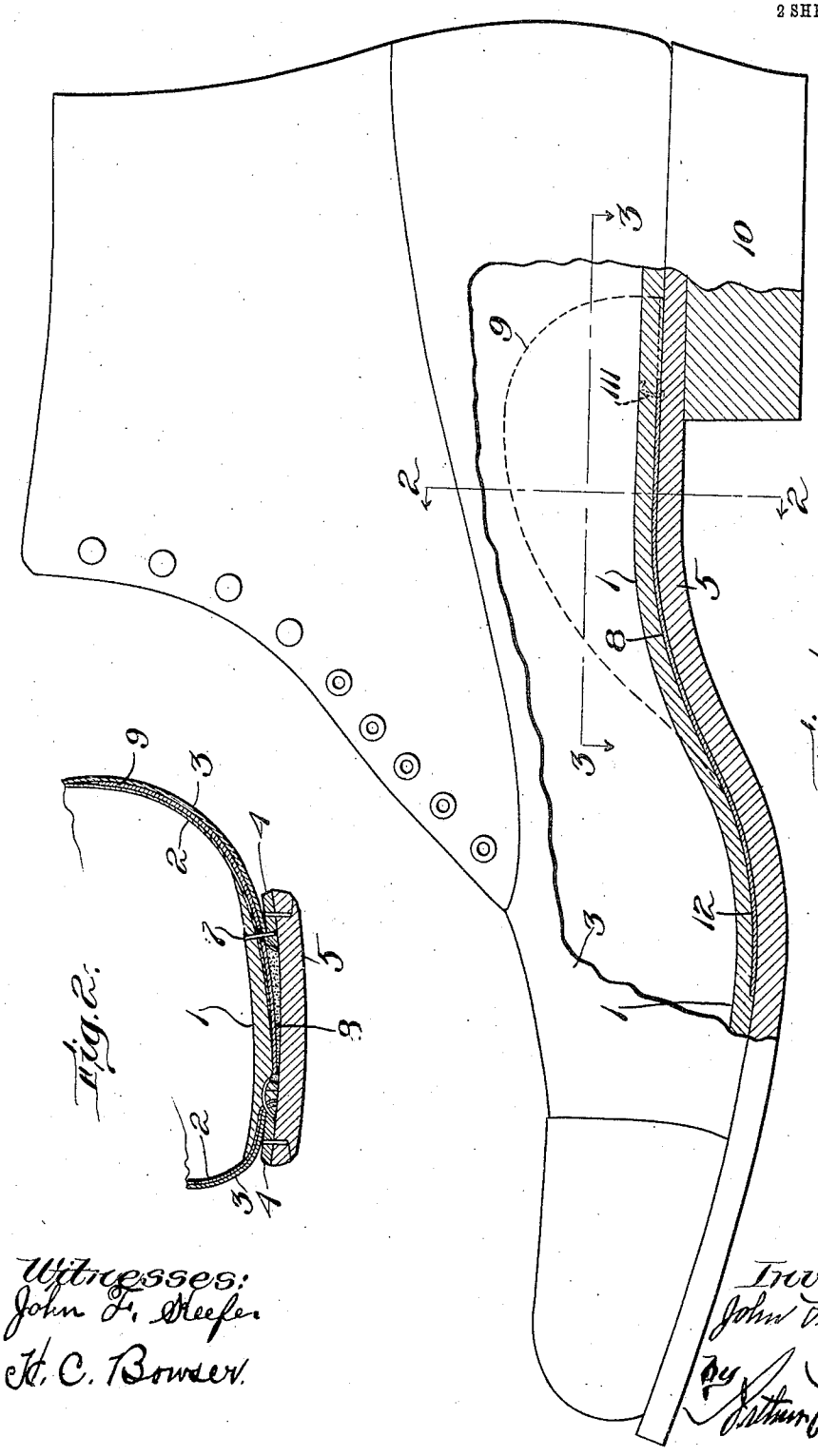

Fig. 1.

Fig. 2.

Witnesses:
John F. Steefer.
H. C. Bowser.

Inventor:
John Farrell
By Arthur F. Randall
Atty.

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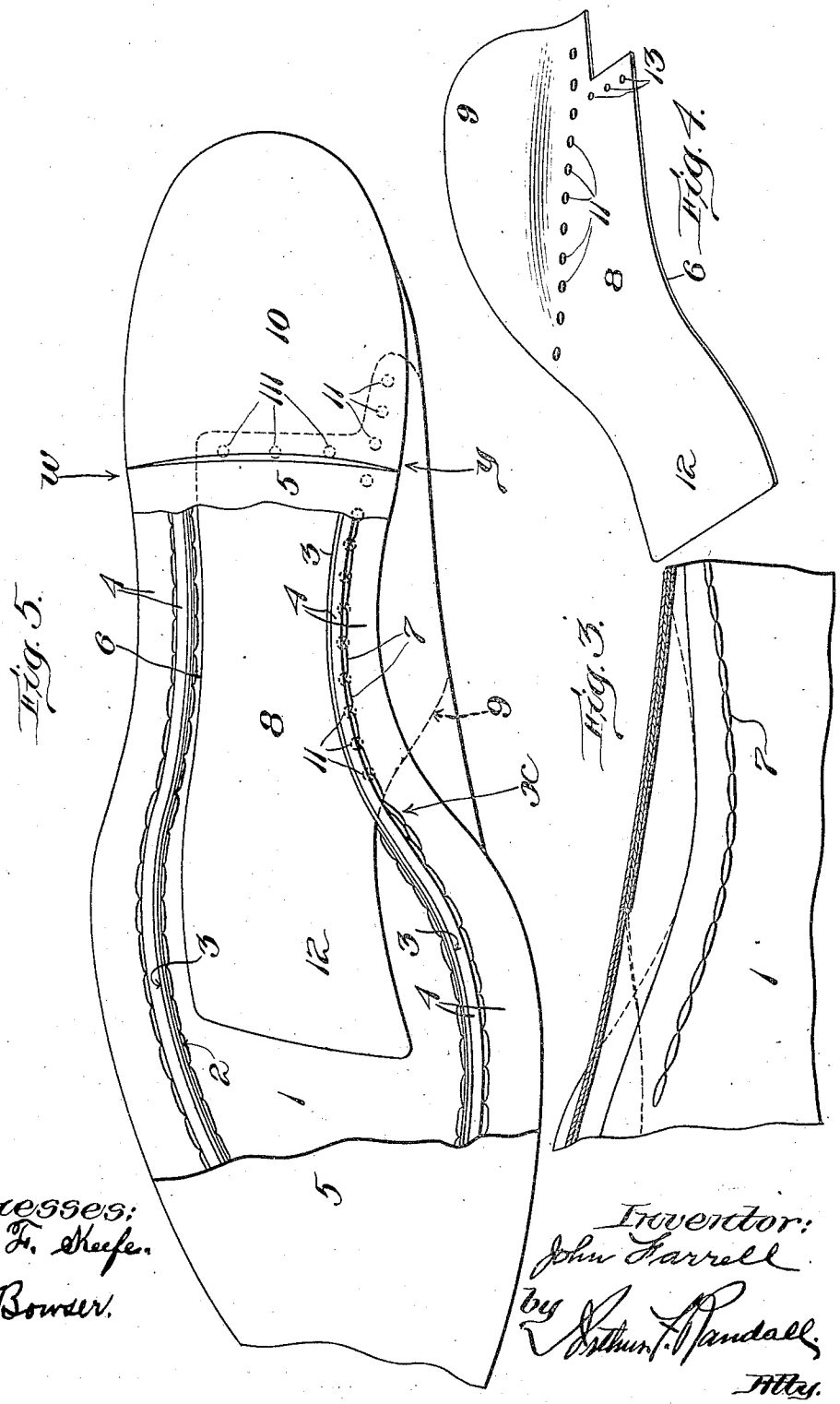

Witnesses:
John F. Keefe.
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UNITED STATES PATENT OFFICE.

JOHN FARRELL, OF CAMBRIDGE, MASSACHUSETTS, ASSIGNOR OF TWO-THIRDS TO BENJAMIN DORE, OF BOSTON, MASSACHUSETTS; HELEN M. DORE ADMINISTRATRIX OF SAID BENJAMIN DORE, DECEASED.

BOOT OR SHOE.

No. 921,602. Specification of Letters Patent. Patented May 11, 1909.

Application filed June 25, 1908. Serial No. 440,222.

To all whom it may concern:

Be it known that I, JOHN FARRELL, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented an Improved Boot or Shoe, of which the following is a specification, reference being had to the annexed drawings, in which—

Figure 1 is a longitudinal sectional view of a shoe constructed in accordance with my invention. Fig. 2 is a section on line 2—2 of Fig. 1. Fig. 3 is a section on line 3—3 of Fig. 1. Fig. 4 is a perspective view of the arch support hereinafter referred to. Fig. 5 is a plan view of the bottom of the shoe shown in Fig. 1 with the outer sole partly broken away.

My invention relates to boots and shoes and has for its object to provide a boot or shoe which will properly support the arch of the foot, particularly broken down arches.

My improved boot or shoe is made with a metallic arch support comprising a shank stiffening base having at its inner side an upwardly extending wing, said support being incorporated into the shoe with the base thereof embedded in the shank of the bottom of the boot or shoe with the wing extending around one side of the inner portion of said shank into the upper part of the boot or shoe, preferably between the upper and the lining so as to be invisible from both the interior and the exterior of the boot or shoe.

In the best form of my invention the shank stiffening base of the support is placed between the inner and outer soles with the wing extending around one side of the inner sole into the upper part of the boot or shoe and the stitches or the like which fasten the inner sole, welt and upper together along the inner side of the shank pass through the metal arch support and therefore serve not only to unite those parts but also to hold the metallic arch support in place. Any other suitable fastening for the arch support may, if desired be substituted. By this construction I have provided a boot or shoe wherein the arch of the foot is supported from below and also at the inner side toward which the foot tends to turn when the weight of the body is brought upon it.

In the drawings 1 represents the inner sole, 2 the lining, 3 the upper, 4 the welt, 5 the outer sole and 6 the metallic arch support. The metallic arch support 6 is made with a base 8 having at its inner side an integral curved wing 9 and at its front end an extension 12. A row of stitch perforations 11 is provided near the junction of the wing and base and tack perforations 13 are provided near the heel end of base 8.

In making the shoe the inner sole, lining, upper and welt are assembled on the last and sewed together in the usual fashion from the point marked *w* at the outer side of the shank, around the toe and down the other side of the shoe as far as the point marked *x*. Here the usual sewing is stopped, the arch support 6 is inserted if it is not already in place, and a line of through and through stitches 7 are sewed from the point marked *x* to the point marked *y*. These stitches 7 pass through the inner sole, lining, holes 11 of arch support 6, upper 3 and welt 4, thereby securely fastening these parts together.

When the arch support 6 is placed in position its base or shank stiffening portion 8 is laid upon the inner sole with the wing 9 extending around one side of the inner sole into the upper part of the shoe between the lining and upper. The front end of the base 8 is extended as at 12 into the fore part of the shoe so as to receive the weight of that part of the foot, while the rear end of base 8 extends beyond the breast of the heel 10 so as to receive the weight of that part of the foot. The heel end of the base 8 may if desired be made with perforations 13 so that it may be secured to the inner sole 1 by tacks 111.

I am aware that the shanks and the sides of boots and shoes have been reinforced with pieces of leather, leather-board and the like built into the shoe, but such devices do not have the supporting function of the metallic support 6 because the pressure of the foot assisted by dampness and moisture permanently distorts them. Moreover reinforcing devices of such material do not present the same problem of manufacture as the metallic arch support 6 embedded in the sole or bottom of the shoe. In my improved shoe the metallic arch support is incorporated into the shoe when the latter is made and so as to be unseen from the interior and exterior, the means for holding the arch support in place being, preferably, the stitches or the like which are used to unite other parts of the boot or shoe.

If desired any other suitable fastening de-

vices such as nails or rivets may be substituted for the stitches 7.

What I claim is:

1. In a welted boot or shoe the combination with the upper, welt and outer sole, of an inner sole made with a lip on its under side; sewing connecting the fore part of the upper and welt to the lip on the inner sole; a metallic arch support comprising a shank stiffening base embedded in the bottom of the boot or shoe having an integral wing at the inner side thereof extending around the side of the inner part of said bottom into the upper part of the boot or shoe; means connecting the arch support, upper and welt to the inner sole along the shank of the shoe, and sewing uniting the welt and outer sole.

2. In a welted boot or shoe the combination with the upper, welt and outer sole, of an inner sole made with a lip on its under side; sewing connecting the fore part of the upper and welt to the lip on the inner sole; a metallic arch support comprising a shank stiffening base arranged between the inner sole and outer sole having an integral wing at the inner side thereof extending around the side of the innersole into the upper part of the boot or shoe; means connecting the arch support, upper and welt to the inner sole along the shank of the shoe, and sewing uniting the welt and outer sole.

3. In a welted boot or shoe the combination with the outer sole, upper and welt, of an inner sole made with a lip on its under side extending from a point at the outer side of the boot or shoe near the heel forward around the toe and thence rearward to a point near the front end of the shank; sewing connecting the lip of the inner sole with the upper and welt; a metallic arch support comprising a shank stiffening base embedded in the bottom of the boot or shoe within said sewing and an integral wing at the inner side of said base extending around the side of the inner part of said bottom into the upper part of the boot or shoe; means connecting the innersole, arch support, upper and welt along the inner side of the shank, and sewing uniting the welt and outer sole.

4. In a welted boot or shoe the combination with the outer sole, upper and welt, of an inner sole made with a lip on its under side extending from a point at the outer side of the boot or shoe near the heel forward around the toe and thence rearward to a point near the front end of the shank; stitches connecting the lip of the innersole with the upper and welt; a metallic arch support comprising a shank stiffening base 8 arranged between the inner and outer soles within the line of said stitches, and an integral wing 9 at the inner side of said base extending around the side of the inner sole into the upper part of the boot or shoe; through and through stitches connecting the arch support, upper and welt to the innersole along the inner side of the shank, and stitches uniting the welt and outersole.

JOHN FARRELL.

Witnesses:

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