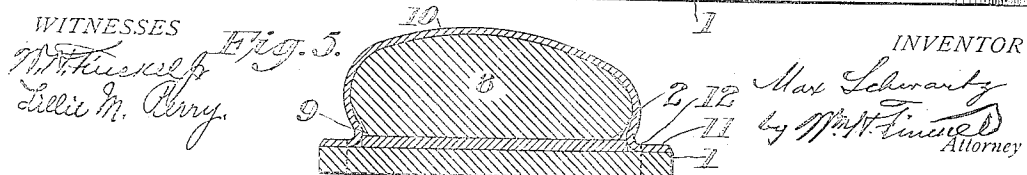
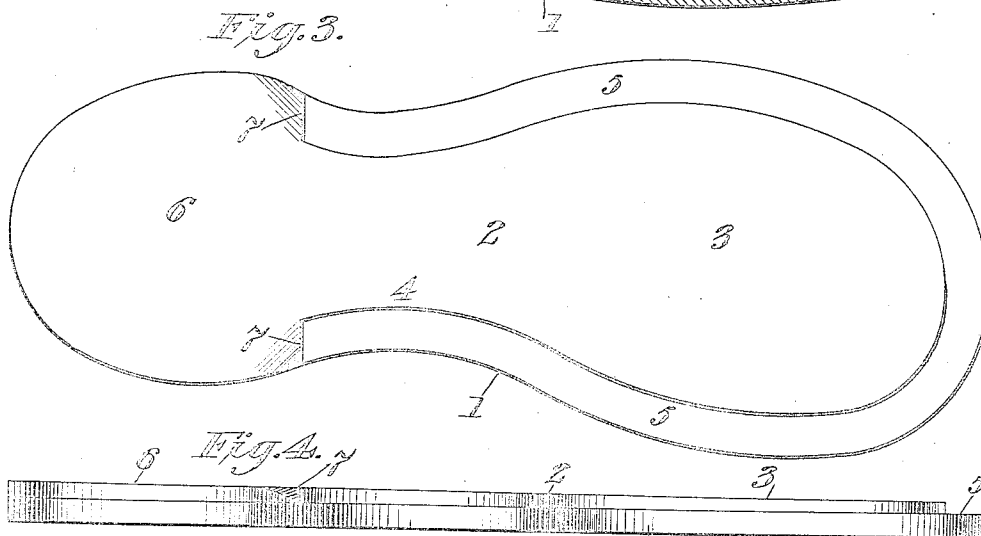
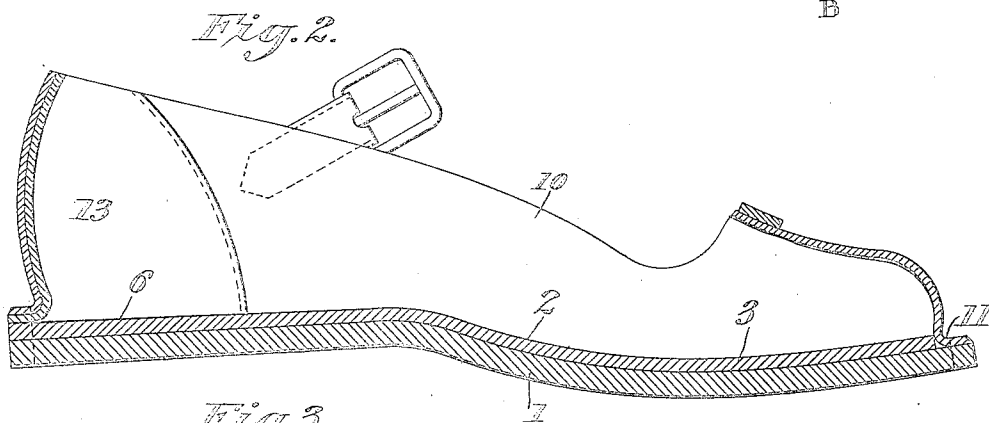
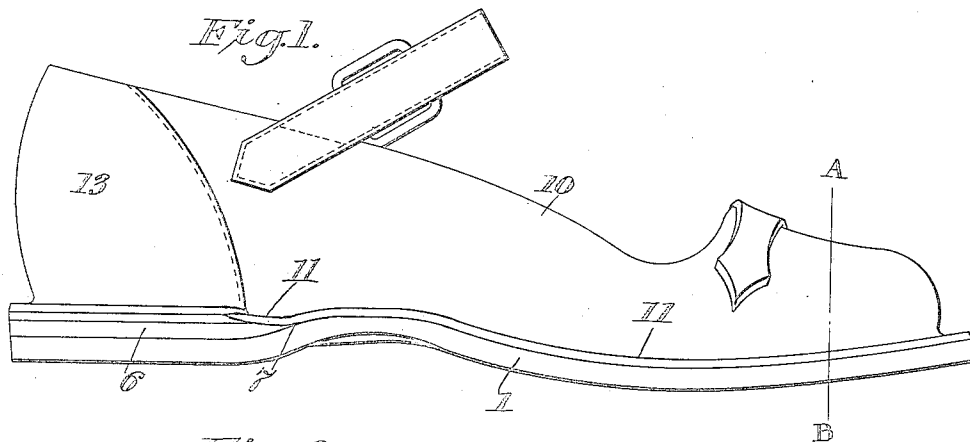


1,056,372.

Patented Mar. 18, 1913.



UNITED STATES PATENT OFFICE.

MAX SCHWARTZ, OF HAGERSTOWN, MARYLAND, ASSIGNOR TO THE HAGERSTOWN LEGGING COMPANY, OF HAGERSTOWN, MARYLAND, A CORPORATION OF MARYLAND.

SPRING-HEEL SHOE.

1,056,372.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed December 4, 1912. Serial No. 734,974.

To all whom it may concern:

Be it known that I, MAX SCHWARTZ, a subject of the King of Hungary, residing at Hagerstown, in the county of Washington and State of Maryland, have invented a certain new and useful Improvement in Spring-Heel Shoes, of which the following is a full, clear, and exact description.

The object of this invention is to effect an economy in the manufacture of wedge or spring-heel shoes, and this object is attained by a peculiar formation of the inner sole.

The invention primarily applies to shoes having out-sewed uppers in which the upper forms the welt, and it consists of an inner sole trimmed throughout the fore part and shank portions so as to leave room for the stitching of the upper directly to the outer sole, and having its heel portion coterminous with the heel portion of the outer sole, as I will proceed now to explain and finally claim.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a side elevation, and Fig. 2 is a longitudinal section of a spring-heel shoe of the pump style. Fig. 3 is a plan view of the assembled inner sole and outer sole detached. Fig. 4 is a side elevation of the assembled inner and outer sole. Fig. 5 is a cross-section, on line A B, Fig. 1.

Heretofore it has been common to make spring-heels by inserting a wedge-like tap or lift between the inner sole and the outer sole, and it has also been proposed to use a sole of heavy stock that could be cut out around the forepart and shank and remove this portion to be utilized as a welt or scrapped.

In the present invention, the sole 1 is made from any preferred stock. The inner sole 2 may be made of inferior stock, preferably such as will give a heel portion of greater thickness than the sole portion, or this result may be obtained by skiving the fore part of the sole or otherwise suitably preparing it. This inner sole is cut throughout its fore part and shank 3 and 4, respectively, of a size sufficiently smaller than the corresponding portions of the outer sole to leave an extension 5 of the outer sole to receive the stitches by which the upper is secured to it, but its heel portion 6 is cut so as to be coterminous with the heel portion

of the outer sole, and in order to get the desired spring-heel or wedge effect, the edges 7 of the breast portions of the heel of the inner sole upon opposite sides of the shank are thinned out by skiving or hammering or otherwise reduced or beveled so as to run out to nothing at their junctures with the shank of the outer sole as indicated in Figs. 3 and 4. The inner sole may be cemented or otherwise secured to the outer sole and when so secured the sole is ready to receive the upper. As indicated in Fig. 5, the last 8 is undercut at 9 so that the upper 10 may be lasted down and in toward the fore part 3 of the inner sole and its shank 4, and the lower edge of said upper turned out as at 11 to take the place of a welt and to receive the stitches 12.

Of course, if desired, a separate welt may be used and stitched down over the out-turned edge of the upper and indeed the part cut from the inner sole as previously described may be used as such welt.

I have shown the invention applied to a pump and having an upper 10 and a combined quarter or counter 13 made in accordance with the invention of William J. Campbell, as set forth in his application for patent of even date herewith; but it is to be understood that the invention is applicable to other styles of shoes, such as oxfords and sandals, both for children and adults.

In some instances it may be desirable to cement the bottom edge of the upper to the so-called sole extension 5 before stitching.

The various details herein shown may be changed as desired, so long as the main feature of the invention is retained, to wit, the provision of a spring-heel by means of the inner sole and the outer sole without the intervention of a separate wedge or filler.

By the construction described, a very considerable economy of leather is effected, and a good stout durable shoe may be produced.

As already stated, the invention primarily applies to shoes having out-sewed uppers, but the invention is not limited to such shoes, but is equally applicable to shoes where the heel portion is out-turned and the shank and fore part intumed, as in making a McKay or a Goodyear welt shoe.

What I claim is:—

1. A spring-heel shoe, having an outer sole, and a superposed inner sole of less

width throughout its fore part and shank
than the outer sole to provide for the at-
tachment of the upper to the outer sole out-
side the inner sole, and having its heel por-
tion coterminous with the heel portion of
the outer sole.

2. A spring-heel shoe, having an outer
sole and a superposed attached inner sole of
less width throughout its fore part and
shank than the outer sole to provide for the
attachment of the upper to the outer sole be-
yond the inner sole and having its heel por-
tion coterminous with the heel portion of
the outer sole, the breast end of the heel
portion of the inner sole upon opposite sides
of the shank being thinned out or beveled
toward the shank of the outer sole.

3. A spring-heel shoe, having an outer
sole, an inner sole fitted upon said outer
sole and having a fore part and shank of

less dimensions than the fore part and
shank of the outer sole and a heel of the
same dimensions as that of the heel of the
outer sole and leaving an exposed edge of
the outer sole about the inner sole at the
fore part and shank, the breast portions of
the heel of the inner sole upon opposite
sides of its shank being beveled toward the
shank of the outer sole, and an upper out-
sewed to the exposed edge of the outer sole
at the fore part and shank and to the edges
of the outer and inner soles at the heel to
thereby produce a wedge effect at the heel.

In testimony whereof I have hereunto set
my hand this 3rd day of December A. D.
1912.

MAX SCHWARTZ.

Witnesses:

BRUCE S. ZELLER,

CHAS. B. BOYLE ZELLER.