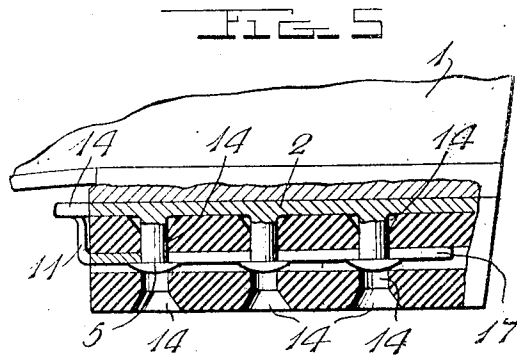
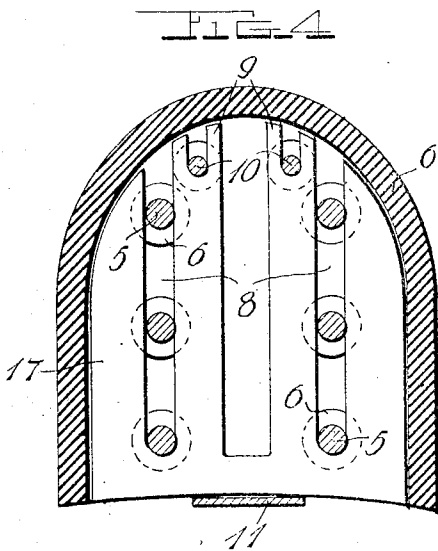
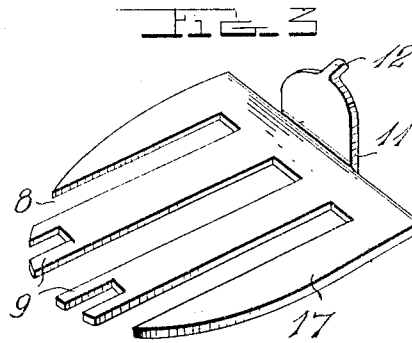
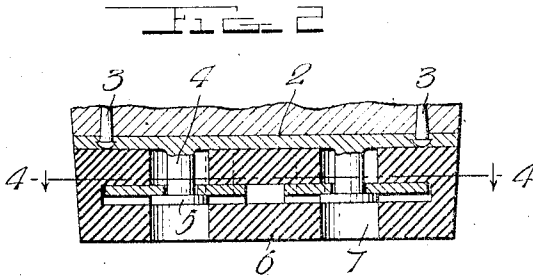
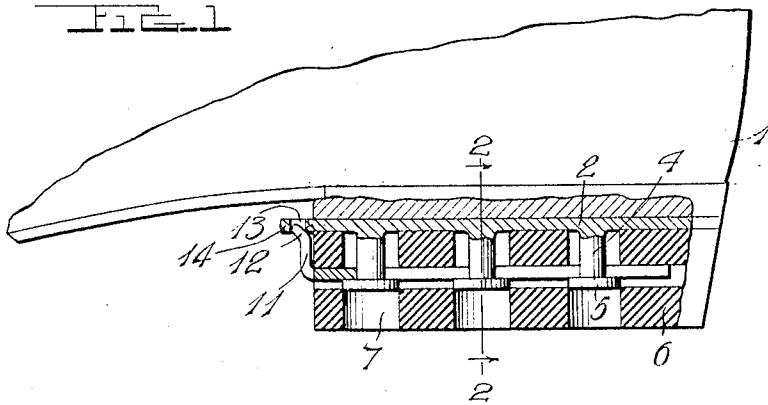


L. CUVELIER.
REVERSIBLE HEEL.
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1,062,538.

Patented May 20, 1913.



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REVERSIBLE HEEL.

1,062,538.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed November 25, 1912. Serial No. 733,467.

To all whom it may concern:

Be it known that I, LOUIS CUVELIER, a subject of the King of Great Britain, residing at Halifax, in the Province of Nova Scotia and Dominion of Canada, have invented certain new and useful Improvements in Reversible Heels; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to reversible heels and more especially to those of yielding-construction whereby the same can be applied to a shoe in a practical manner.

The object of the invention is in the construction of a device of this character whereby the same is preferably constructed of rubber or other yielding material and means for detachably connecting the same to form a heel for the shoe for the purpose previously described.

A further and important object of the invention is in the construction of the heel whereby the same may be reversed and the means for attaching it in an operative position under all conditions.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings: Figure 1 is a longitudinal section of the complete invention showing the parts in operative position; Fig. 2 is a transverse section of the heel as applied; Fig. 3 is a perspective view of the plate for locking the heel in an operative position in respect to the shoe; Fig. 4 is a sectional view showing the heel and the plate in interlocking engagement therewith; Fig. 5 is a vertical longitudinal section showing a modification of the invention.

In the illustrative embodiment of the invention 1 represents a shoe in section of conventional design to which the invention may be practically applied, and secured to the heel portion thereof is a metallic plate 2 which is secured to said shoe by any suitable and mechanical means such as shown in Fig. 2, wherein rivets or other suitable fastening devices 3 are employed. Projected downwardly from the plate 2 are studs 4 which are provided with heads 5 all of which is

adapted to form a permanent and rigid part 55 of the heel of the shoe.

The detachable flexible heel 6 herein constructed is composed preferably of rubber or other flexible material and provided with vertical alining openings 7 which are adapted to freely receive the heads 5 of the studs 4 when said heel is properly positioned with relation to the heel portion of the shoe and plate 2 thereof as clearly shown in Fig. 1.

In order to securely and detachably position the heel upon the shoe in its relative position a plate 17 is employed which is slidably engaged with the studs 4 forming a part of the plate 2, said plate being provided with a plurality of longitudinally disposed slots 8 formed therein and in parallel relation to one another, said slots being adapted for engagement with the studs when the plate is forced inwardly between the heads 5 of the studs and the longitudinally disposed recess formed in the heel whereby the heel is held in a rigid and yielding position in respect to the shoe.

As clearly shown in Fig. 3 the intermediate ends 9 are bifurcated and adapted to engage with additional pins 10 secured to the plate 2 as clearly shown in Fig. 4 whereby the parts are rigidly connected.

Referring particularly to Figs. 1 and 3 of the drawings it will be seen that the locking plate 17 is provided with an upwardly turned lip 11 which is adapted for engagement with the rear surface of the heel thus engaged and having a tongue 12 for interlocking engagement with an opening 13 formed in the projecting end 14 in the plate 2 whereby said plate is held in position to secure the heel.

In Fig. 5 the invention is slightly modified in construction whereby the heads 5 are slightly rounded and adapted to be forced through conical shaped openings 14 formed in the heel whereby the heel is locked in engagement with the shoe before the plate 17 is inserted within the same, the resiliency of the material of which the heel is composed permitting said heads to be freely passed through the openings 14 referred to.

As clearly shown the resilient heel thus constructed is not only reversible but is formed in such a manner that the locking plate 17 can be readily inserted within the heel and being metallic will retain the origi-

nal formation of the outer contour of the heel as clearly shown in Fig. 4, the said plate being held in rigid position by the studs 4 and pins 10 in order to carry out the practical utility and advantages of the invention as herein disclosed.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as claimed.

Having thus described my invention, what I claim is:

1. In a reversible shoe heel composed of yielding material having a plurality of vertical openings formed therethrough, a plate secured to the heel portion of the shoe, studs projecting downwardly therefrom and provided with heads, the latter being adapted to freely pass through the openings formed in the heel, a plate adapted to be snugly received by a longitudinal and horizontal opening formed in the intermediate portion of the heel and slidingly engaged therewith, said plate being provided with slots for engagement with the studs projecting from the plate forming a part of the heel portion of the shoe, and means forming a part of the plate for detachable engagement with the plate forming a permanent part of the shoe.

2. The herein described device comprising a detachable heel composed of rubber or other flexible material having a longitudinal and centrally disposed slot formed therein, a plate secured to the heel portion of the shoe and forming a permanent part thereof, studs projecting from said plate and forming an integral part thereof, said studs having terminal heads, said heel having a plurality of vertical aligned openings therein for freely receiving the heads of the studs projecting from the plate secured to the heel of the shoe, a forked metallic plate composed of a plurality of slots for interlocking engagement with the headed studs previously referred to, the intermediate ends of the plate being bifurcated for inter-

locking engagement with additional pins projecting from the heel, and means for securing the plate for securing the heel in position to the plate secured to the heel of the shoe.

3. The herein described device comprising a detachable heel composed of rubber or other flexible material having a longitudinal and centrally disposed slot formed therein, a plate secured to the heel portion of the shoe and forming a permanent part thereof, studs projecting from said plate and forming an integral part thereof, said studs having terminal heads, said heel having a plurality of vertical aligned openings therein for freely receiving the heads of the studs projecting from the plate secured to the heel of the shoe, a forked metallic plate composed of a plurality of slots for interlocking engagement with the headed studs previously referred to, the intermediate ends of the plate being bifurcated for interlocking engagement with additional pins projecting from the heel, a lip secured to said plate and projecting therefrom, and a tongue for interlocking engagement with an opening formed in the projecting end of the plate secured to the heel of the shoe.

4. The herein described shoe heel consisting of resilient material having vertical transverse openings formed therein and a longitudinal space intersecting said openings and extending the full length of the heel, the opposite ends of said transverse openings being of conical formation, headed studs projecting from the heel portion of the shoe, said studs having rounded heads for primarily engaging the conical shaped formation of the openings in the heel when the heel is applied, a locking plate adapted for sliding engagement with the longitudinal space in the heel and adapted to be brought into binding contact with the heads of the studs, and means for temporarily locking the plate when the heel is properly positioned.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

L. CUVELIER.

Witnesses:

M. P. BOYD,
R. E. VERGE.