To all whom it may concern:

Be it known that I, WILLIAM BECK, a citizen of the United States, residing at Henderson, in the county of Sibley and State of Minnesota, have invented a new and useful Shoe-Sole Fastening, of which the following is a specification.

My invention relates to boots and shoes, and especially to an improved means of attaching the soles and heels thereto, and has for its objects to produce a comparatively simple inexpensive device of this character wherein the outer sole or heel when worn may be readily removed and replaced by new parts and one in which the heel may be adjusted from time to time as circumstances require to insure uniform wearing thereof.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a bottom plan view of a device embodying my invention. Fig. 2 is a top plan view with the inner sole removed to disclose the attaching device. Fig. 3 is a plan view of the heel portion of the sole. Fig. 4 is a detail vertical section through the sole. Figs. 5, 6, and 7 are detail views. Fig. 8 is a view similar to Fig. 3, disclosing a slightly different embodiment of the invention.

Referring to the drawings, 1 designates the inner sole of a boot or shoe, to which the upper 2 is attached, as usual, and 3 the upper lift or ply of the outer sole, stitched or otherwise fastened to the inner sole.

Secured to the upper face of the layer 3 and within and slightly remote from the marginal edge thereof is a preferably continuous fastening member or band 4, composed of thin steel or other suitable metal and secured in place by means of staples 5, stitches, or other suitable fastening devices. This member or band 4 has provided thereon a series of outwardly projecting or depending engaging spurs or prongs 6 of suitable length, as hereinbefore explained, and preferably of substantially U shape in cross-section, these spurs being arranged in juxtaposition and in relatively close order throughout the entire length or area of the band, except at the points 7 7, where one or more spurs are omitted to produce spaces, as shown, for a purpose which will later appear. The spurs engage and serve to secure in place the lower lift or ply 8 of the outer sole, whereby this lift, which sustains the wear incident to the use of the shoe, may when necessary or desirable be readily removed and replaced by a new one.

Attached to the heel portion of the sole 3 by means of removable fastening devices 9, preferably in the form of screw-bolts, is the heel 10. This heel, which is composed, as usual, of a plurality of superposed layers or plies, comprises a normally fixed primary portion or member 11 and a secondary movable portion or member 12, this latter being of circular form in plan and adapted to extend and fit at one side within a semicircular recess 13, provided in the rear wall of the member 11, in which recess and conforming thereto is a thin sheet-metal protecting-plate 14, the ends of which are bent back over the terminal ends of the member 11 and lie along the outer face thereof.

The primary portion of the heel is secured in place by a pair of the screw-bolts 9, while the secondary portion is secured by a single and centrally-disposed bolt, upon which it may, as presently explained, be rotated, these bolts being all extended through the heel and inner sole 3 and having their inner ends in threaded engagement each with an engaging member 15, preferably in the form of a nut or burr embedded in the inner face of the sole 3.

Attention is here directed to the fact that when the outer ply is in position the spaces 7 will register with and receive the nuts 15 on the bolts which secure the primary member 11 in place, thereby permitting the meeting faces of the lifts 3 and 8 to lie in snug even contact.

Provided upon and projecting outward or downward from the outer face of the ply 8 is a series of engaging pins or prongs 16, adapted to register with and enter suitable sockets 17, provided in the adjacent face of the secondary heel member 12 for normally fixing the latter against rotation, there being preferably four of the prongs 16, as herein shown.

From this arrangement it is apparent that as the member 12 in practice becomes worn it may from time to time, by removing the bolt...
9 and freeing it from engagement with the
prongs 16, be partially rotated, thereby in-
suring a uniform wearing of its outer surface.

In Fig. 8 I have shown a slightly-different
form of the device in which a single substan-
tially V-shaped member or plate 18 is substi-
tuted for the three retaining members or nuts
15 to be engaged by the inner ends of the
screw-bolts 9. In other respects the con-
struction and operation is identical with that
above described.

From the foregoing it is apparent that I
produce a simple inexpensive device admir-
ably adapted for the attainment of the ends
in view, but it is to be understood that minor
changes may be made in the details herein
set forth without departing from the spirit of
the invention.

Having thus described the invention, what
is claimed is—

In a device of the class described, the com-
bination with a shoe-sole formed of a plural-
ity of superposed lifts, of a heel, a marginal
band secured to one of said lifts and provided
with a plurality of spaced depending spurs
passing through the adjacent lifts, means for
securing the marginal band in position on
said lift, an engaging member secured to the
upper lift of the sole, an attaching member
extending through the heel and engaging the
first-named member, a nut seated on each
side of the marginal band between the de-
pending spurs, and bolts having their thread-
ed ends extending through the heel and en-
gaging said nuts for securing the heel to the
shoe.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature
in the presence of two witnesses.

WILLIAM BECK.

Witnesses:

A. E. Buck,
Charles Joyce.