

March 2, 1971

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3,566,489

REPLACEABLE SPIKE FOR SHOES

Filed July 29, 1969

2 Sheets-Sheet 1

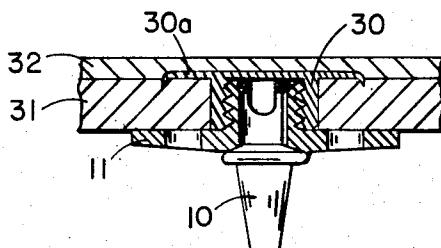


FIG. 1

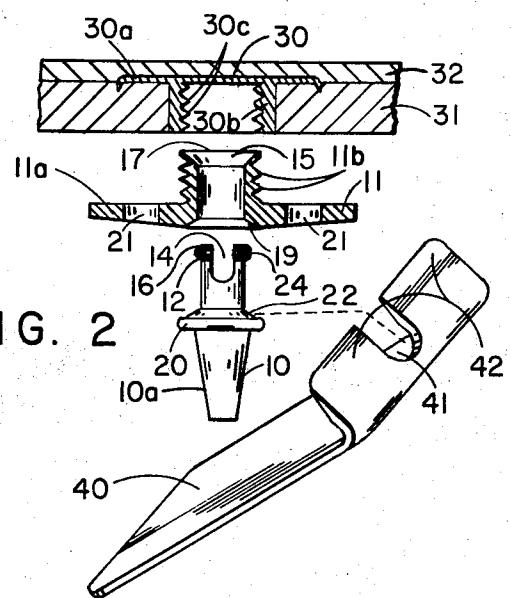


FIG. 2

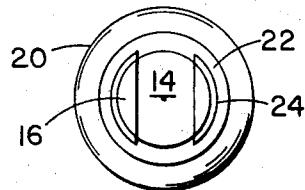


FIG. 3

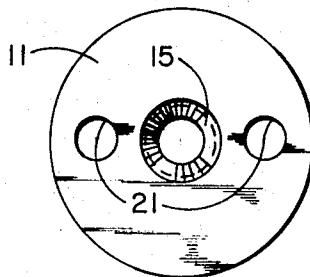


FIG. 4

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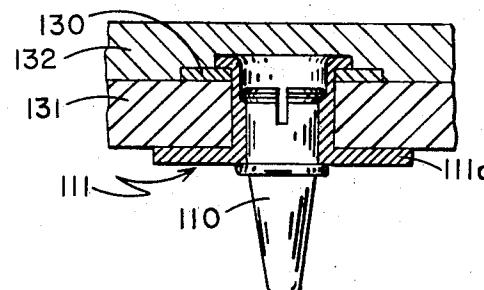


FIG. 5

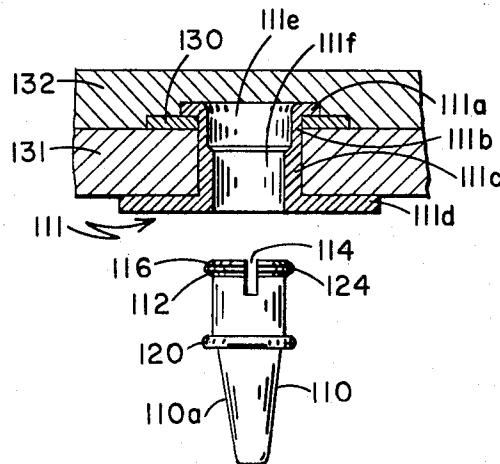


FIG. 6

are locked into the recess. The diameter of the base of the locking portion is such as to give a fairly close fit in the tubular portion of the retainer member.

Insertion of the replaceable spike member 10 is done by simple direct pressure. Removal is accomplished by applying wedge pressure between the rim 11a of the retainer member and the flange 20 of the replaceable spike member. A preferred tool 40 is illustrated having a narrow wedge end split by a notch 41 so that both sides of the wedge 42 will fit around the base of the elongated locking member 14.

In the one-piece anchor construction illustrated in FIGS. 5 and 6, the anchor member 111 comprises an outer flange portion 111d, a tubular portion 111c having an inner recess 111b with an extension 111a bent over the washer 130 onto the inner surface of an outer sole 131 below an inner sole 132. There are thus two cavities in the anchor 111, namely a narrow entering cavity 111f and a wider seating cavity 111e. Thus, when replaceable spike member 110 is pushed into the cavities 111f and 111e, its split fingers 112 permit the protuberances 116 and 124 of the locking portion 114 to pass through cavity 111f and then lock into cavity 111e. The protuberance 120 seats tightly against the flange 111d.

I claim:

1. In combination:

(a) an anchor comprising a rim adapted to engage the inner surface of a shoe sole and a tubular portion adapted to extend through such sole and terminate in an annular rim abutting the outer surface of the shoe sole; said tubular portion being open at the bottom and having a recess in its upper inner portion; and

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(b) a replaceable spike member comprising an exterior spike portion, a median seating flange adapted to abut said annular rim and an elongated locking portion adapted to extend through said tubular portion and having longitudinal split fingers with terminal protuberances adapted to be seated in said recess.

2. Claim 1 wherein said anchor comprises in cooperative combination:

(a) a receiving chamber having a tubular portion adapted to extend through such sole and having interior threading; and

(b) a retainer member comprising a tubular portion open at the bottom and having exterior threading adapted to engage the interior threading of said receiving chamber; the upper inner portion of said tubular portion having the recess.

3. Claim 1 wherein said annular rim and spike member flange have registerable chamfers.

4. Claim 1 wherein said annular rim has an orifice for engagement by a tool.

References Cited

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PATRICK D. LAWSON, Primary Examiner