

Title (en)

Shoe sole structure

Title (de)

Aufbau einer Schuhsohle

Title (fr)

Structure d'une semelle de chaussure

Publication

EP 1447020 A1 20040818 (EN)

Application

EP 03009417 A 20030425

Priority

US 36438403 A 20030212

Abstract (en)

A shoe sole structure that not only provides a shock absorbing effect but also can protect the elastic portion of .the shoe sole structure from aging and wear. The shoe sole structure contains a first protective container (11), a first elastic pad (1), a second protective container (21) and a second protective container (21). The first protective container (11) has a first side (14) having a first containing space (110) and a second side (15) having plural first gutters (12) thereon. The first elastic pad (1) is united with the first side (14) within the first containing space (110). The second protective container (21) has a third side (25) having a second containing space (210) and a fourth side (26) having plural second gutters (22) thereon. The second elastic pad (2) is united with the third side (25) within the second containing space (210). The second side (15) is united with the fourth side (26). Accordingly the first and second elastic pads (1,2) are protected from exposing to sunlight and air directly and the first gutters (12) combined with the second gutters (22) form plural channels (16) that greatly increase the elasticity of the shoe sole structure.

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Citation (search report)

- [X] US 4999931 A 19910319 - VERMEULEN JEAN-PIERRE [CA]
- [A] US 6098313 A 20000808 - SKAJA JOSEPH J [US]
- [A] US 5224280 A 19930706 - PREMAN RON [US], et al
- [A] EP 1064861 A1 20010103 - MIZUNO KK [JP]

Cited by

EP2106714A3; EP1728446A1; CN104757740A; EP3117732A1; US8196315B2; WO2009091691A1; WO2007022338A1; WO2023198524A1; WO2007142928A1; US10172418B2; US7685743B2; US8061060B2; US9491982B2; US10383393B2; US11291269B2; WO2022243263A1

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