

Title (en)
Outer sole for footwear

Title (de)
Aussensohle für Schuhwerk

Title (fr)
Semelle extérieure pour article chaussant

Publication
EP 0766932 A1 19970409 (EN)

Application
EP 96202737 A 19961004

Priority
NL 1001364 A 19951006

Abstract (en)
An outer sole for footwear is provided with one or more impact-damping and grip-improving means. The sole can for instance have a damping cavity which is provided under the forefoot portion, and in particular under the ball section portion, of the sole. Furthermore, the outer sole can be provided with means for increasing the grip of the sole, which means is provided on the lower side of the sole on the transition from the foot cavity portion of the sole to the ball section portion of the sole. The outer sole can also be provided with a damping cavity which is formed under the heel portion of the sole, which heel damping portion has in that direction side walls which taper towards each other, which side walls, in the presence of a downward loading force, deform in horizontal direction to absorb impact forces, and with almost vertical slots with almost vertical walls, which are present in the side walls with their longitudinal direction in the circumferential direction of the heel damping cavity. Finally, the outer sole can be provided with a forefoot portion, a heel portion and an intermediate hollow shank portion which, upon placement of the sole on a horizontal surface, forms a bridge and does not contact the surface, and with ridges which are formed substantially transverse to the longitudinal direction of the sole under the bridge and which extend in a position of rest slantingly from the bridge and are resiliently bendable from the position of rest into a position located nearer the bridge. <IMAGE>

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CPC (source: EP)
A43B 13/223 (2013.01)

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• [A] FR 2409714 A1 19790622 - UNIROYAL GMBH [DE], et al
• [A] DE 7736457 U1 19780824
• [A] EP 0206438 A2 19861230 - STUBBLEFIELD JERRY D
• [A] US 4494321 A 19850122 - LAWLOR KEVIN [US]
• [A] US 1988784 A 19350122 - CARRIER GEORGE B
• [A] US 4694591 A 19870922 - BANICH HOWARD P [US], et al
• [A] DE 3318121 A1 19840524 - TRACK SHOE CORP 8 [US]
• [A] US 3629962 A 19711228 - BROCK LOUIS C
• [A] US 4096649 A 19780627 - SAURWEIN ALBERT C

Cited by
AU2018100570B4; CN112040911A; EP3782588A4; EP3520643A1; US12042407B2; US9974356B2; WO2016022354A1

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