Title (en)

Construction, production and use of an innovative shoe sole system

Title (de)

Konstruktion, Herstellung und Verwendung eines neuartigen Schuhsohlensystems

Title (fr)

Construction, fabrication et utilisation d'un système de semelles d'un nouveau genre

Publication

EP 2556763 A3 20131113 (DE)

Application

EP 12004972 A 20120704

Priority

US 201161522655 P 20110811

Abstract (en)

[origin: EP2556763A2] The system has a spring system (7) arranged between a foot-closer sole (6) and a ground-closer sole (5). Spikes (8) and traction elements (9) are attached at the ground-closer sole. Exchangeable flexible elements provide a rolling-, a whipping-, a torsion and a rotation process input to a locomotor system of a shoe wearer by construction and a material of the soles and the spring system. The flexible elements require speed and force-dependent compensation stabilization by the wearer to obtain an equilibrium state. The system is made of crystalline and amorphous plastic or high performance plastic.

IPC 8 full level

A43B 13/14 (2006.01); **A43B 13/12** (2006.01); **A43B 13/18** (2006.01)

CPC (source: EP US)

A43B 5/001 (2013.01 - US); **A43B 13/125** (2013.01 - EP US); **A43B 13/145** (2013.01 - EP US); **A43B 13/183** (2013.01 - EP US); **A43C 15/161** (2013.01 - US); **A43C 15/168** (2013.01 - US)

Citation (search report)

- [XI] JP 2003339405 A 20031202 - MIZUNO KK
- [XI] US 2009133288 A1 20090528 - GALLEGOS ALVARO Z [US]
- [A] EP 2241208 A1 20101020 - FSC CO LTD [KR]
- [A] DE 102007048462 A1 20090416 - SHOECONCEPT GMBH & CO KG [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2556763 A2 20130213; **EP 2556763 A3 20131113**; EP 2741630 A1 20140618; US 2014237852 A1 20140828; WO 2013023163 A1 20130214

DOCDB simple family (application)

EP 12004972 A 20120704; EP 12822434 A 20120810; US 2012050401 W 20120810; US 201214236325 A 20120810