

Title (en)  
Improved resilient sports shoe

Title (de)  
Verbesserter elastischer Sportschuh

Title (fr)  
Chaussure de sport souple améliorée

Publication  
**EP 2338369 A1 20110629 (EN)**

Application  
**EP 10177874 A 20100921**

Priority  
US 64264209 A 20091218

Abstract (en)  
An improved resilient shoe includes a heel having a cavity extending under the instep portion of the shoe's upper housing compression springs, a mainspring located at approximately the heelstrike point and two auxiliary springs for stability located forward of the mainspring toward the toe. The action of the springs is distributed throughout the sole by a resilient layer of softer rubber in the bottom pad of the heel portion. In an alternate embodiment, the structural walls of the heel portion are configured such that the heel flexes responsive to the forces of the wearer's weight and the captive springs. The shoe is preferably further configured such that external air enters around the wearer's foot and flows through holes in the sole and into the heel, and is controllably directed out to the exterior of the shoe through a one-air air exhaust valve thereby ventilating the wearer's foot while walking.

IPC 8 full level  
**A43B 13/18** (2006.01); **A43B 7/08** (2006.01)

CPC (source: EP US)  
**A43B 1/0054** (2013.01 - EP US); **A43B 7/082** (2013.01 - EP US); **A43B 13/182** (2013.01 - EP US); **A43B 21/30** (2013.01 - EP US)

Citation (search report)

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- [X] EP 0624322 A1 19941117 - FUKUOKA CHEMICAL INDUSTRY CO L [JP]
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Cited by  
CN109349735A

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**US 2010095553 A1 20100422**; EP 2338369 A1 20110629; KR 20110070721 A 20110624

DOCDB simple family (application)  
**US 64264209 A 20091218**; EP 10177874 A 20100921; KR 20100039516 A 20100428