

Title (en)  
Article of footwear having an undulating sole

Title (de)  
Schuhwerkartikel mit welliger Sohle

Title (fr)  
Chaussure à semelle ondulée

Publication  
**EP 2277402 A3 20150311 (EN)**

Application  
**EP 10170301 A 20100721**

Priority  
• US 50695709 A 20090721  
• US 74824610 A 20100326  
• US 83246410 A 20100708

Abstract (en)  
[origin: EP2277402A2] An article of footwear with an undulating sole provides cushioning and support to an article of footwear. The sole has an undulating shape that may be substantially similar to a sine wave with a series of alternating peaks and troughs.

IPC 8 full level  
**A43B 13/12** (2006.01); **A43B 13/14** (2006.01); **A43B 13/18** (2006.01)

CPC (source: BR EP)  
**A43B 13/14** (2013.01 - BR EP); **A43B 13/181** (2013.01 - BR EP); **A43B 13/187** (2013.01 - EP); **A43B 13/223** (2013.01 - EP);  
**A43B 13/187** (2013.01 - BR); **A43B 13/223** (2013.01 - BR)

Citation (search report)  
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• [A] US 6189239 B1 20010220 - GASPAROVIC DAVID W [US], et al  
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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)  
**EP 2277402 A2 20110126; EP 2277402 A3 20150311; EP 2277402 B1 20161019**; BR PI1013455 A2 20151020; CN 101961158 A 20110202; CN 101961158 B 20170412; EP 3146862 A2 20170329; EP 3146862 A3 20170705; EP 3146862 B1 20190918; EP 3146862 B8 20191023; EP 3603437 A1 20200205; EP 3603437 B1 20210714; EP 3912509 A2 20211124; EP 3912509 A3 20220126

DOCDB simple family (application)  
**EP 10170301 A 20100721**; BR PI1013455 A 20100721; CN 201010231240 A 20100720; EP 16188094 A 20100721; EP 19196198 A 20100721; EP 21185399 A 20100721