

Title (en)
DAMPING ELEMENT FOR A SHOE

Title (de)
DÄMPFUNGSELEMENT FÜR EINEN SCHUH

Title (fr)
ELEMENT AMORTISSEUR D'UNE CHAUSSURE

Publication
EP 1499209 A1 20050126 (DE)

Application
EP 03729837 A 20030415

Priority
• DE 0301272 W 20030415
• DE 20206927 U 20020501

Abstract (en)
[origin: US2005252037A1] A damping element for a shoe, especially for a sports shoe, having at least one first element which extends essentially in a load direction over a pre-determined height in the unloaded state of the damping element, and is embodied as a hollow body defining a receiving area in which an associated second element with a smaller cross-section can at least partially penetrate. The second element extends essentially in the load direction over a pre-determined height in the unloaded state of the damping element, and is arranged coaxially in relation to the first element. To improve the damping performance of the shoe, the second element is also embodied as a hollow body and the two associated elements are interconnected by means of an elastic connecting section which only extends between the first-element and the second element so that the elements together form a gas-tight chamber.

IPC 1-7
A43B 13/18; **A43B 13/20**

IPC 8 full level
A43B 13/40 (2006.01); **A43B 13/18** (2006.01); **A43B 13/20** (2006.01)

CPC (source: EP KR US)
A43B 1/0009 (2013.01 - EP KR US); **A43B 1/0072** (2013.01 - EP US); **A43B 7/32** (2013.01 - KR); **A43B 13/181** (2013.01 - EP KR US); **A43B 13/20** (2013.01 - EP US); **A43B 13/206** (2013.01 - KR); **Y10T 428/234** (2015.01 - EP US); **Y10T 428/24149** (2015.01 - EP US); **Y10T 428/24165** (2015.01 - EP US); **Y10T 428/24661** (2015.01 - EP US)

Citation (search report)
See references of WO 03092423A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2005252037 A1 20051117; **US 7153560 B2 20061226**; AT E308256 T1 20051115; AT E338486 T1 20060915; AU 2003240394 A1 20031117; AU 2003240394 B2 20061109; BR 0308463 A 20050111; BR 0308463 B1 20130625; CA 2477760 A1 20031113; CA 2477760 C 20080715; CN 100438792 C 20081203; CN 1646039 A 20050727; DE 10392004 D2 20050407; DE 20206927 U1 20030904; DE 50301557 D1 20051208; DE 50304985 D1 20061019; EP 1499209 A1 20050126; EP 1499209 B1 20051102; EP 1563751 A1 20050817; EP 1563751 B1 20060906; ES 2248751 T3 20060316; ES 2273297 T3 20070501; IL 163747 A0 20051218; IL 163747 A 20081229; JP 2005532845 A 20051104; KR 100611426 B1 20060809; KR 20050016379 A 20050221; MX PA04010799 A 20050307; NO 20045254 L 20041130; NO 325469 B1 20080505; PL 205489 B1 20100430; PL 371619 A1 20050627; RU 2004135077 A 20050527; RU 2279235 C2 20060710; WO 03092423 A1 20031113; WO 03092423 A8 20040108; ZA 200406926 B 20060628

DOCDB simple family (application)
US 51308704 A 20041101; AT 03729837 T 20030415; AT 05010930 T 20030415; AU 2003240394 A 20030415; BR 0308463 A 20030415; CA 2477760 A 20030415; CN 03808363 A 20030415; DE 0301272 W 20030415; DE 10392004 T 20030415; DE 20206927 U 20020501; DE 50301557 T 20030415; DE 50304985 T 20030415; EP 03729837 A 20030415; EP 05010930 A 20030415; ES 03729837 T 20030415; ES 05010930 T 20030415; IL 16374703 A 20030415; IL 16374704 A 20040826; JP 2004500617 A 20030415; KR 20047017537 A 20041030; MX PA04010799 A 20030415; NO 20045254 A 20041130; PL 37161903 A 20030415; RU 2004135077 A 20030415; ZA 200406926 A 20040831