

Title (en)  
Shoe sole

Title (de)  
Schuhsohle

Title (fr)  
Semelage de chaussure

Publication  
**EP 1428447 B1 20080820 (FR)**

Application  
**EP 03023098 A 20031015**

Priority  
FR 0216239 A 20021211

Abstract (en)  
[origin: EP1428447A1] The assembly consists of a rubber or polymer under sole (40), a sole reinforcing element (50), and an upper reinforcing element (20) that is connected to the sole reinforcing element so they are supple in a transverse direction. The connection between the two reinforcing elements is made by sticking them to an intermediate shock-absorbing sole (60). The upper reinforcing element is also attached to the shoe's upper.

IPC 8 full level  
**A43B 13/12** (2006.01); **A43B 13/14** (2006.01); **A43B 23/17** (2006.01)

CPC (source: EP US)  
**A43B 13/026** (2013.01 - EP US); **A43B 13/12** (2013.01 - EP US); **A43B 13/141** (2013.01 - EP US); **A43B 23/17** (2013.01 - EP US)

Cited by  
EP1869989A1; CN106539186A; EP2157876A4; EP3398469A1; FR3046913A1; US7849609B2; US8327560B2; WO2017125676A1; WO2009154848A3; US7665229B2; WO2007126762A1

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)  
**EP 1428447 A1 20040616; EP 1428447 B1 20080820**; AT E405185 T1 20080915; DE 60323041 D1 20081002; ES 2312707 T3 20090301; FR 2848389 A1 20040618; FR 2848389 B1 20060210; US 2004111920 A1 20040617; US 7082702 B2 20060801

DOCDB simple family (application)  
**EP 03023098 A 20031015**; AT 03023098 T 20031015; DE 60323041 T 20031015; ES 03023098 T 20031015; FR 0216239 A 20021211; US 72010903 A 20031125