

Title (en)  
Shock-absorbing sole structure

Title (de)  
Stossdämpfende Schuhsohlenstruktur

Title (fr)  
Structure de semelle amortissante

Publication  
**EP 1120056 A2 20010801 (EN)**

Application  
**EP 01101122 A 20010119**

Priority  
IT MI20000086 A 20000125

Abstract (en)  
1. A shock-absorbing sole structure of the type comprising: a sole with tread (1, 1', 1", 1"', 1''') in turn having at least one heel cavity (3, 3', 3", 3"', 3''') and at least one sole cavity (5, 5', 5", 5"', 5''') on the upper surface of the tread (1, 1', 1", 1"', 1'''), a heel protuberance and a sole protuberance on the lower surface of the tread (1, 1', 1", 1"', 1''') corresponding to the heel cavity (3, 3', 3", 3"', 3''') and respectively to the sole cavity (5, 5', 5", 5"', 5'''); and an element (13, 13', 13", 13"', 13''') for covering the heel cavity (3, 3', 3", 3"', 3''') and the sole cavity (5, 5', 5", 5"', 5''') to be fixed above the upper surface of the tread (1, 1', 1", 1"', 1'''), characterised in that elastic shock-absorbing means (11t and 11p, 11't and 11'p, 11"t and 11"p, 11"t and 11"p, 11'''t and 11'''p) are provided in the housings defined by the internal walls of the heel cavity (3, 3', 3", 3"', 3''') and of the sole cavity (5, 5', 5", 5"', 5''') and by the lower wall of said covering element (13, 13', 13", 13"', 13'''), said elastic shock-absorbing means (11t and 11p, 11't and 11'p, 11"t and 11"p, 11'''t and 11'''p, 11'''t and 11'''p, 11'''t and 11'''p) being formed by a solid material with elastic behaviour similar to air. <IMAGE>

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

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

CPC (source: EP)  
**A43B 3/0031** (2013.01); **A43B 7/1425** (2013.01); **A43B 7/1435** (2013.01); **A43B 7/144** (2013.01); **A43B 7/1445** (2013.01); **A43B 7/148** (2013.01); **A43B 13/187** (2013.01)

Cited by  
CN107006931A; EP2250918A1; CN107373865A; US9694247B2; US8307569B2; US8424221B2; US8713817B2; US9462846B2; WO2007130287A3; USD838452S; USD906655S; USD1036836S; JP2009535157A; US7607243B2; US8015732B2; US8499476B2; US11925477B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1120056 A2 20010801; EP 1120056 A3 20030326; IT MI20000086 A0 20000125; IT MI20000086 A1 20010725**

DOCDB simple family (application)  
**EP 01101122 A 20010119; IT MI20000086 A 20000125**