

Title (en)  
SELF-INFLATABLE AIR CUSHION

Title (de)  
SELBSTAUFBLASBARE LUFTPOLSTERUNG

Title (fr)  
COUSSIN D'AIR AUTO-GONFLABLE

Publication  
**EP 0994659 A1 20000426 (EN)**

Application  
**EP 97943478 A 19970925**

Priority  
• US 9716928 W 19970925  
• US 87649497 A 19970616

Abstract (en)  
[origin: WO9857560A1] A self-inflatable air cushion (1a) which includes a support chamber (1) mounted in a sole (6) of a shoe and holding a liquid, a collapsible plenum chamber (10) surrounded by the support chamber (1) and partially protruding over the top of the sole (6) and having a top air hole (31), passage means (22, 33) connected between the support chamber (1) and the plenum chamber (10), and one-way valve (101) mounted in the passage means (22, 33) to let flow move in one direction from the plenum chamber (10) to the support chamber (1) upon compression of the plenum chamber (10).

IPC 1-7  
**A43B 13/20**; **A43B 21/28**; **A47C 27/08**

IPC 8 full level  
**A43B 13/20** (2006.01); **A43B 17/03** (2006.01); **A43B 21/28** (2006.01); **A47C 27/08** (2006.01)

CPC (source: EP KR)  
**A43B 13/20** (2013.01 - KR); **A43B 13/203** (2013.01 - EP); **A43B 13/206** (2013.01 - EP); **A43B 21/28** (2013.01 - EP)

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

DOCDB simple family (publication)  
**WO 9857560 A1 19981223**; AT E273629 T1 20040915; AU 4494397 A 19990104; AU 740251 B2 20011101; BR 9714773 A 20000725; CA 2294017 A1 19981223; CN 1142731 C 20040324; CN 1262604 A 20000809; DE 69730359 D1 20040923; DE 69730359 T2 20050825; DK 0994659 T3 20041220; EP 0994659 A1 20000426; EP 0994659 A4 20020918; EP 0994659 B1 20040818; ES 2227715 T3 20050401; JP 2002504004 A 20020205; KR 100475145 B1 20050308; KR 20010013896 A 20010226; PT 994659 E 20050131; RU 2193857 C2 20021210

DOCDB simple family (application)  
**US 9716928 W 19970925**; AT 97943478 T 19970925; AU 4494397 A 19970925; BR 9714773 A 19970925; CA 2294017 A 19970925; CN 97182227 A 19970925; DE 69730359 T 19970925; DK 97943478 T 19970925; EP 97943478 A 19970925; ES 97943478 T 19970925; JP 50437199 A 19970925; KR 19997011918 A 19991216; PT 97943478 T 19970925; RU 2000100921 A 19970925