

Title (en)  
SHOE INSOLE AND METHOD OF MAKING THE SAME

Publication  
**EP 0101676 B1 19860226 (DE)**

Application  
**EP 83890137 A 19830826**

Priority  
DE 3231971 A 19820827

Abstract (en)  
[origin: ES8500730A1] An insole for shoes, with which, after having made a connection, preferably by sewing, between the insole and the shoe upper, a body of polyurethane forming the running sole and/or the foot bed is applied to the bottom side of the insole by foaming operation, consists of a fleece substantially formed of synthetic fibres and having arranged therein a reinforcing insert approximately extending in parallel relation to the upper side of the insole. At least the upper portion of the fleece, which is adjacent the upper side of the insole on which rests the foot, is impregnated with a dispersion or emulsion containing at least 1 percent by weight of hollow microspheres, the thin shell of which consists of a vinylidene chloride copolymer and the hollow core of which contains a gas. The hollow microspheres can already be present in the dispersion or emulsion prior to the impregnating step, it is, however, also possible to provide within the dispersion or emulsion compact particles from which are, after the impregnating step, formed the hollow microspheres in situ by supplying heat.

IPC 1-7  
**A43B 13/40**

IPC 8 full level  
**A43B 13/12** (2006.01); **A43B 13/38** (2006.01); **A43B 13/40** (2006.01)

CPC (source: EP US)  
**A43B 13/10** (2013.01 - EP US); **A43B 13/12** (2013.01 - EP US); **A43B 13/38** (2013.01 - EP US)

Cited by  
EP0361338A3; DE3928467A1; EP0369800A3; GR890100757A; FR2775331A1; ES2154582A1; EP0369801A3; GR890100756A; WO8504786A1

Designated contracting state (EPC)  
AT DE FR GB IT

DOCDB simple family (publication)  
**EP 0101676 A1 19840229; EP 0101676 B1 19860226**; AT E18123 T1 19860315; DE 3231971 A1 19840315; DE 3362311 D1 19860403; ES 525194 A0 19841101; ES 8500730 A1 19841101; US 4524529 A 19850625; US 4575446 A 19860311

DOCDB simple family (application)  
**EP 83890137 A 19830826**; AT 83890137 T 19830826; DE 3231971 A 19820827; DE 3362311 T 19830826; ES 525194 A 19830827; US 52611283 A 19830824; US 69509585 A 19850125