

Title (en)
Liner structure for shoes

Title (de)
Innenbekleidung für Schuh

Title (fr)
Structure de doublure pour chaussure

Publication
EP 1645202 A1 20060412 (EN)

Application
EP 04023695 A 20041005

Priority
EP 04023695 A 20041005

Abstract (en)
A liner structure for shoes to keep foot at a comfortable temperature includes a bag body and a heat storage material. The bag body is produced by combining an upper film and a bottom film and sealing the edges thereof to form a storage space between two films for containing the heat storage material. The storage space is then separated into a plurality of cells by forming a plurality of space divisions using a high-frequency hot pressing machine. The liner structure can be used for a vamp and/or an insole, heat dissipated by feet can be used for corresponding heat-storing and heat-dissipating processes, so that the functions of cooling and warm-keeping can be achieved.

IPC 8 full level
A43B 1/00 (2006.01); **A43B 7/34** (2006.01); **A43B 17/00** (2006.01); **A43B 19/00** (2006.01)

CPC (source: EP)
A43B 1/00 (2013.01); **A43B 7/34** (2013.01); **A43B 17/003** (2013.01); **A43B 19/00** (2013.01)

Citation (search report)
• [XY] DE 19907314 A1 19990826 - TECH CHAUSSURE MAROQUINERIE CT [FR]
• [Y] US 4017931 A 19770419 - GOLDEN PRESTON L
• [X] GB 2368773 A 20020515 - KOTACK ALLAN [CA]
• [X] US 5637389 A 19970610 - COLVIN DAVID P [US], et al
• [A] US 2004043212 A1 20040304 - GRYNÆUS PETER [DE], et al

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1645202 A1 20060412

DOCDB simple family (application)
EP 04023695 A 20041005