A moldable, adjustable orthopedic insert is disclosed. The insert has an upper cradle having an upper surface for contact with a foot. The upper surface is an ETC material. A lower interlocking surface is molded of EVA for cushioning of the foot. A lower cradle having an upper surface with an arch depression and a lower surface with flow domes is provided. The flow dome has a flow hole fluidly communicating with the arch depression. A gel layer is placed in the arch depression, the gel layer being moldable via heat. The insole is heated to allow the gel layer to soften. The user then places their foot in the insole allowing the gel layer to conform to the user’s feet. The gel layer then cools and sets in the shape. Excess gel in the gel layer runs out through the flow holes and fills the flow domes. The excess gel is removed and the flow dome is plugged.
Declaration under Rule 4.17:
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(H))

Published:
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For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

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A CLASSIFICATION OF SUBJECT MATTER
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USPC - 36/154

According to International Patent Classification (IPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) A61F 5/14 (2007.01)
USPC - 36/154

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 36/43, 44, 91, 117 5, 140, 145, 174 (text search using combinations of keywords listed below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest (PGPB,USPT,USOC,EPAB,JPAB, PLUR=YES, OP=ADJ), Google Scholar
Search Terms gel, fluid, moldable, temperature, heat, heated, heating, channel, chamber, flow, passage, insole, insert, arch, orthopedic

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No


A US 6,510,626 B1 (GREENAWALT) 28 January 2003 (28 01 2003), entire document 1-26

A US 6,571,490 B2 (TAWNLEY et al) 03 June 2003 (03 06 2003), entire document 1-26

□ Further documents are listed in the continuation of Box C □

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Date of the actual completion of the international search 16 March 2007 (16 03 2007)

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