

Title (en)

Electrically heated insoles for footwear and remote control heating system for electrical insoles for footwear

Title (de)

Elektrisch beheizte Einlegesohlen für Schuhe und Heizsystem mit Fernbedienung für elektrische Einlegesohlen für Schuhe

Title (fr)

Semelles de chaussures électriquement chauffées et système de chauffage télécommandé pour les semelles de chaussures électriques

Publication

**EP 2215918 A2 20100811 (EN)**

Application

**EP 10152125 A 20100129**

Priority

- US 32262409 A 20090204
- US 65755010 A 20100123

Abstract (en)

A wire-free, rechargeable electrically heated insole for footwear. The insole comprises an upper sole and a bottom sole separated by electrical components for controlling the continuous monitoring and heating of the insole. An insert and fiber plane are also provided as a cushion for the electrical components between the upper and bottom soles. The electrical components comprise a printed circuit board electrically coupled with a thermostat, an amplifier and transistor, resistors, and a light emitting diode to form the electrical system. An integrated battery is used to power the system. The insole is designed to be automatically activated to generate heat when the temperature of the foot inside the footwear cools to a certain temperature and automatically de-activated or discontinues generating heat when the temperature of the foot inside the footwear heats to a certain temperature. Alternatively, the electrical insole for footwear may be heated using a remote control heating system comprising a remote transmitter coupled with a receiver and other additional electrical components provided in the sole.

IPC 8 full level

**A43B 3/35** (2022.01)

CPC (source: EP US)

**A43B 3/34** (2022.01 - EP); **A43B 3/35** (2022.01 - EP US); **A43B 3/48** (2022.01 - EP US)

Citation (applicant)

US 6657164 B1 20031202 - KOCH ALBIN G [CH]

Cited by

RU2506023C2; CN108523306A; KR101015853B1; US8869428B1; US8869429B1; US9101177B2; US9179734B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2215918 A2 20100811; EP 2215918 A3 20140122**

DOCDB simple family (application)

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