

Title (en)
INSOLE FOR RELIEF OF OVER-PRONATION AND KNEE JOINT STRESS

Title (de)
EINLEGESOHLE ZUR MINDERUNG VON ÜBERPRONATION UND KNIEGELENKBELASTUNG

Title (fr)
SEMELLE INTÉRIEURE PERMETTANT DE SOULAGER LA PRONATION EXCESSIVE ET LA CONTRAINTE EXERCÉE SUR L'ARTICULATION DU GENOU

Publication
EP 2819537 A4 20150701 (EN)

Application
EP 13754536 A 20130220

Priority
• US 201261605664 P 20120301
• US 2013026932 W 20130220

Abstract (en)
[origin: WO2013130321A1] An insole for placement inside a shoe for use in reducing over-pronation, associated misalignment of the patella (knee cap), and knee joint stress of a user. The insole has a top sheet and a support base cushion. The support base cushion has a forefoot mid-cushion area that extends from a toe end to a metatarsal area of the insole and an arch to heel area that extends from a metatarsal area to a heel end of the insole. The insole has a forefoot cushion secured to the forefoot mid-cushion area. The insole also has a medial support cradle, which reduces over-pronation and knee stresses, a lateral support cradle, which provides a side support to help reduce stress on the knee, and a heel cushion, which acts in cooperation with the medial support cradle to resist excessive pronation, all secured to the bottom of the support base cushion in the arch to heel area.

IPC 8 full level
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CPC (source: EP US)
A43B 7/142 (2013.01 - EP US); **A43B 7/143** (2013.01 - EP US); **A43B 7/144** (2013.01 - EP US); **A43B 7/1445** (2013.01 - EP US); **A43B 13/386** (2013.01 - US); **A43B 13/40** (2013.01 - US); **A43B 17/006** (2013.01 - EP US); **A43B 17/02** (2013.01 - EP US); **A43B 17/026** (2013.01 - EP US); **A43B 17/14** (2013.01 - EP US); **A43B 17/16** (2013.01 - EP US)

Citation (search report)
• [X1] WO 2007021328 A1 20070222 - SPENCO MEDICAL CORP [US], et al
• [X1] US 2004118017 A1 20040624 - DALTON EDWARD F [US], et al
• [XD1] US 7721467 B2 20100525 - CHESKIN MELVYN P [US], et al
• [X1] US 2004194344 A1 20041007 - TADIN ANTHONY G [US]
• [X1] US 5669162 A 19970923 - DYER ROBERT M [US]
• [X1] US 2009049712 A1 20090226 - STESZYN MICHAEL [US], et al
• See references of WO 2013130321A1

Cited by
USD903268S; USD906658S; USD935758S

Designated contracting state (EPC)
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US 2013026932 W 20130220; CN 201380023222 A 20130220; EP 13754536 A 20130220; HK 15106263 A 20150702; JP 2014559923 A 20130220; KR 20147027055 A 20130220; SG 11201405207V A 20130220; TW 102106674 A 20130226; US 201314381263 A 20130220