

Title (en)

Sole for sportshoes

Title (de)

Sohle für Sportschuhe

Title (fr)

Semelle pour chaussures de sport

Publication

EP 0857435 A3 19990203 (DE)

Application

EP 97111897 A 19970712

Priority

DE 19652462 A 19961217

Abstract (en)

[origin: EP0857435A2] The sole for sports shoes has a gradual transit between the zones (20) of high material stiffness and the zones (18) with a lower material stiffness. The material is a thermoplastic polyurethane, in a hardness range of 60 Shore A to 50 Shore D, or polyamide elastomer in a hardness range of 90 Shore A to 70 Shore D. Thermoplastic polyurethane can be combined with polyamide elastomer, or polypropylene can be combined with thermoplastic elastomer based on styrene-butadiene-styrene, styrene-ethylene-butadiene, or polyolefin. The sole can be injection moulded, where the material types blend together at their transit zones.

IPC 1-7

A43B 13/16; **A43B 13/26**

IPC 8 full level

A43B 13/12 (2006.01); **A43B 13/14** (2006.01); **A43B 13/16** (2006.01); **A43B 13/26** (2006.01)

CPC (source: EP)

A43B 13/12 (2013.01); **A43B 13/14** (2013.01)

Citation (search report)

- [X] US 1361907 A 19201214 - SAUNDERS ADDISON T
- [Y] US 3950483 A 19760413 - SPIER I MARTIN
- [Y] FR 2690348 A1 19931029 - OURS ROGER [FR]
- [Y] GB 2113971 A 19830817 - CROOK AND SONS LIMITED BENJAMI
- [Y] FR 2671947 A1 19920731 - KOEFLACH SPORTGERAETE GMBH [AT]
- [DY] EP 0724952 A1 19960807 - UHLSYSTEM DEUTSCHLAND GMBH [DE]
- [A] US 3082442 A 19630326 - YVES COUSTEAU JACQUES, et al
- [A] FR 2265294 A1 19751024 - TRAPPEUR [FR]
- [A] DE 3902872 A1 19900802 - HERMES STEFAN [DE], et al
- [X] DATABASE WPI Week 9807, Derwent World Patents Index; AN 98-049898, XP002087188

Cited by

KR20020030859A; ES2242467A1; EA008855B1; DE102019213330A1; US7856942B2; WO2005120217A1; EP3788899A1; EP4241606A2; US11944158B2

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