

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 December 2007 (27.12.2007)

PCT

(10) International Publication Number
WO 2007/147421 A1

(51) International Patent Classification:

A43B 7/12 (2006.01) B29D 31/518 (2006.01)
A43B 13/12 (2006.01)

(21) International Application Number:

PCT/EP2006/005906

(22) International Filing Date: 20 June 2006 (20.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **GEOX S.P.A.** [IT/IT]; Via Feltrina Centro, 16, I-31044 Montebelluna, Località Biadene (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **POLEGATO MORETTI, Mario** [IT/IT]; Via Antonini, 7, I-31035 Crocetta del Montello (IT).

(74) Agent: **ALAGEM MODIANO, Lara, S.**; Modiano & Associati, Via Meravigli, 16, I-20123 Milano (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

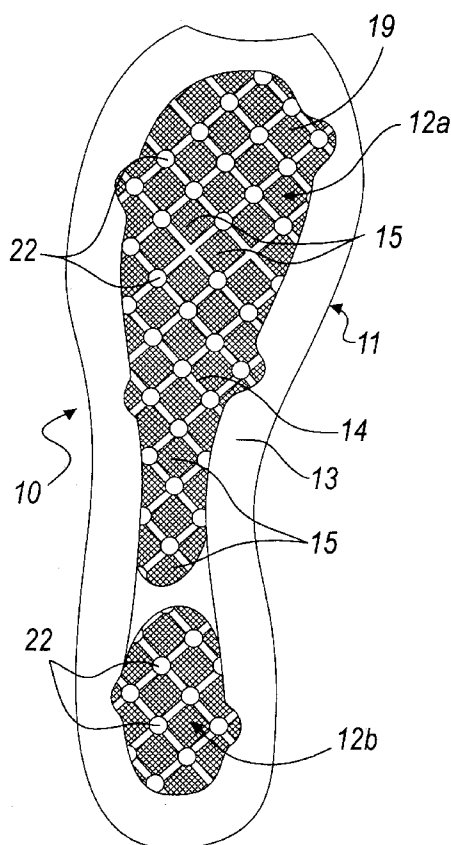
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

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.

(54) Title: VAPOR-PERMEABLE ELEMENT TO BE USED IN COMPOSING SOLES FOR SHOES, SOLE PROVIDED WITH SUCH VAPOR-PERMEABLE ELEMENT, AND SHOE PROVIDED WITH SUCH SOLE



(57) Abstract: A vapor-permeable element (10, 210, 310, 410, 510, 610) to be used in the composition of soles for shoes, which comprises: - a supporting frame (11, 211, 311, 411), which delimits substantially at least one large through hole (12, 512); - a membrane (17, 117) which is impermeable to water and permeable to water vapor and is arranged above the supporting frame (11, 211, 311, 411) so as to cover at least the large through hole (12, 512); - at least one vapor-permeable or perforated protective layer (19) for the membrane, which is arranged between the supporting frame (11, 211, 311, 411) and the membrane (17, 117), so as to cover at least the large through hole (12, 512). The membrane (17, 117) and the protective layer (19) are joined, at least at their perimetric edges, to each other and to said supporting frame (11, 211, 311, 411); the protective layer (19), in cooperation with the tread of the sole with which it is associated, is available for contact with the ground during use of the sole.

WO 2007/147421 A1