

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063069 A3

(51) International Patent Classification⁷: **A43B 7/06**,
7/12, 13/12, B05D 7/24

(21) International Application Number:
PCT/EP2004/014717

(22) International Filing Date:
27 December 2004 (27.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PD2003A000312
30 December 2003 (30.12.2003) IT

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **POLEGATO**

MORETTI, Mario [IT/IT]; Via Antonini, 7, I-31035 Crocetta Del Montello (IT). **FERRARESE, Antonio** [IT/IT]; Via Rimembranza, 23, I-37063 Isola Della Scala (IT). **MATTIONI, Bruno** [IT/IT]; Via Faedis, 18, 33100 Udine (IT).

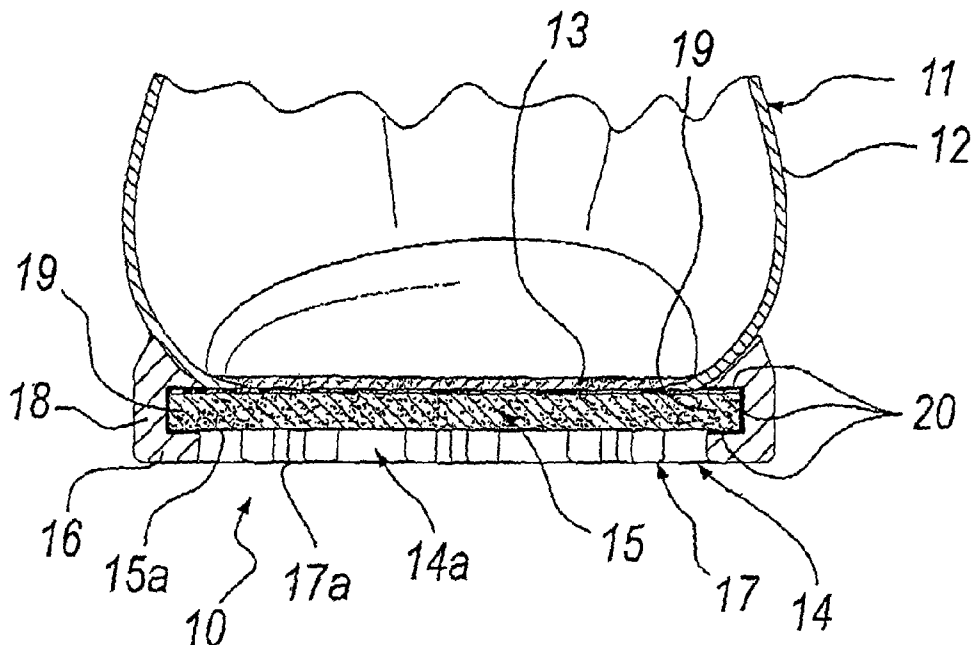
(74) Agent: **MODIANO, Guido**; Modiano & Associati, Via Meravigli, 16, I-20123 Milano (IT).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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),

[Continued on next page]

(54) Title: BREATHABLE WATERPROOF SOLE FOR SHOES



(57) Abstract: A waterproof breathable sole for shoes (10), which comprises, for at least part of its extension, at least two structural layers, a lower one (14) provided with a supporting structure so as to form the tread, and an upper one (15, 215) that is permeable to water vapor. The lower layer (14) has portions (14a, 114a) that are open onto the upper layer (15, 215). A coating (21, 221) obtained by means of a plasma deposition treatment for waterproofing is provided on the upper layer. In this manner, a layer is obtained that has structural functions and characteristics of resistance to damage and is at the same time waterproof and breathable.

WO 2005/063069 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, 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*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
9 September 2005

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.