(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 December 2010 (02.12.2010)

PCT

(10) International Publication Number
WO 2010/136570 A1

(51) International Patent Classification:
*A23L 1/30* (2006.01) *A61K 31/375* (2006.01)
*A23L 1/302* (2006.01) *A61K 36/82* (2006.01)
*A61K 8/67* (2006.01) *A61K 36/87* (2006.01)
*A61K 31/353* (2006.01) *A61P 17/00* (2006.01)

(21) International Application Number:
PCT/EP2010/057431

(22) International Filing Date:
28 May 2010 (28.05.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09161493.3 29 May 2009 (29.05.2009) EP

(71) Applicant *(for all designated States except US)*: **NESTEC S.A.** [CH/CH]; Avenue Nestlé 55, CH-1800 Vevey (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LAMBELET, Pierre** [CH/CH]; Ch. de la Tour Ronde 7, CH-1806 Saint-Légier (CH). **BORTLIK, Karlheinz** [DE/CH]; Chemin de la Cure 36, CH-1510 Syens (CH). **SABATIER, Magalie** [FR/CH]; Route du Jorat, 65, Vers Chez Les Blanc, CH-1000 Lausanne 26 (CH). **CRESPY, Vanessa** [FR/US]; Drumcally Lane 5385, Dublin, Ohio 43017 (US). **WILLIAMSON, Gary** [GB/GB]; 33 Woodlands Drive, Harrogate Yorkshire HG2 7AX (GB).

(74) Agent: **CHAUTARD, Cécile**; Avenue Nestlé 55, CH-1800 Vevey (CH).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17**:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

**Published**:

— *with international search report (Art. 21(3))*

WO 2010/136570 A1

(54) **Title**: GREEN TEA EXTRACTS OF IMPROVED BIOAVAILABILITY

(57) **Abstract**: The present invention relates to a green tea formulation stabilized by natural antioxidants such as OPC together with vitamin C or vitamin C analogs. The invention also relates to the use of a mixture of OPC and ascorbic acid to increase bioavailability of green tea catechins. It also relates to a food, pharmaceutical or cosmetic composition that contains the stabilized green tea formulation.