

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 November 2008 (27.11.2008)

PCT

(10) International Publication Number
WO 2008/142433 A1

(51) International Patent Classification:

C12P 17/06 (2006.01) *C11C 1/04* (2006.01)
A23L 1/30 (2006.01) *C11C 1/10* (2006.01)
A23L 1/302 (2006.01) *A61K 8/67* (2006.01)
A61K 31/355 (2006.01)

(21) International Application Number:

PCT/GB2008/001801

(22) International Filing Date: 27 May 2008 (27.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

07252128.9 24 May 2007 (24.05.2007) EP

(71) Applicant (for all designated States except US): **LODERS CROKLAAN B.V.** [NL/NL]; Hogeweg 1, NL-1521 AZ Wormerveer (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BHAGGAN, Krishnadath** [NL/NL]; Loders Croklaan B.V., Hogeweg 1, NL-1521 AZ Wormerveer (NL). **HARRIS, John, J., B.** [GB/NL]; Loders Croklaan B.V., Hogeweg 1, NL-1521 AZ Wormerveer (NL). **VAN WANROIJ, Miriam**

[NL/NL]; Lipid Nutrition B.V., Hogeweg 1, NL-1521 AZ Wormerveer (NL).

(74) Agent: **STEVENS, Ian**; Potter Clarkson LLP, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

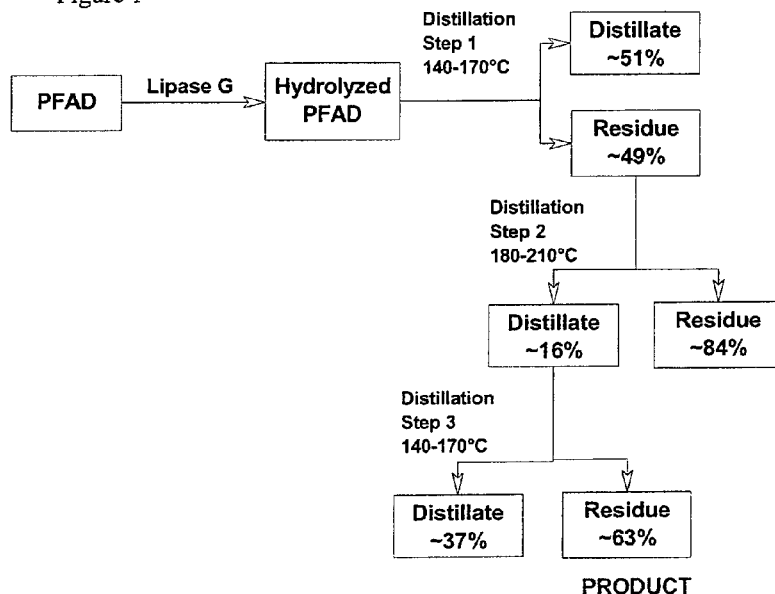
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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

(54) Title: PROCESS FOR PRODUCING COMPOSITIONS COMPRISING TOCOPHEROLS AND TOCOTRIENOLS

Figure 1



(57) Abstract: A process for producing a composition comprising at least 3% by weight of total tocopherols and tocotrienols comprises: providing a product obtained from palm oil comprising tocopherols and tocotrienols, together with free fatty acids and monoglycerides and diglycerides of fatty acids; hydrolysing at least part of the monoglycerides and diglycerides with a lipase to form the corresponding free fatty acids; removing at least part of the free fatty acids after hydrolysis; and recovering a composition comprising a higher level of tocopherols and tocotrienols than are present in the product obtained from palm oil.

WO 2008/142433 A1