



(51) International Patent Classification:

C11B 1/10 (2006.01) *C11B 11/00* (2006.01)
C11B 3/00 (2006.01)

(21) International Application Number:

PCT/EP2015/052462

(22) International Filing Date:

6 February 2015 (06.02.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

14154662.2 11 February 2014 (11.02.2014) EP

(71) Applicants (for all designated States except US):

EVONIK MEMBRANE EXTRACTION TECHNOLOGY LTD. [GB/GB]; Unit 8 Wharfside Rosemont Road, Wembley Middlesex HA0 4PE (GB). **EVONIK DEGUSSA GMBH** [DE/DE]; Rellinghauser Straße 1-11, 45128 Essen (DE).

(72) Inventors; and

(71) Applicants (for US only): **BOAM, Andrew** [GB/GB]; 18 Florence Street, Hitchin Hertfordshire SG5 1QZ (GB). **BOUWHUIS, Yuri** [NL/US]; 20 Scarlet Oak Drive, Princeton, New Jersey 08540 (US). **KOLEVA, Velichka Yordanova** [BG/GB]; 34A Central Road, Wembley Greater London HA0 2LH (GB). **ROCHA, Maria Ines Fontes** [PT/PT]; Rua Alexandre O'Neill, Num 22, 2 ESQ, P-4460-219 Sra da Hora (PT). **SCHWARM, Michael** [DE/DE]; Messmerstr. 23 a, 63755 Alzenau (DE).

(74) Agent: **WOLF, Oliver**; Evonik Degussa GmbH, CI-IPM-PAT, Postcode 84/339, Rodenbacher Chaussee 4, 63457 Hanau (DE).

(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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, 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))

Published:

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: METHOD FOR PRODUCING VITAMINE E-ENRICHED, ESPECIALLY TOCOTRIENOL-ENRICHED, COMPOSITIONS FROM NATURAL OILS

(57) Abstract: The present disclosure relates generally to a process for manufacturing products enriched in the content of at least one vitamin E component, preferably tocotrienol, using solvent extraction and membrane filtration.

