



(51) International Patent Classification:

A23D 9/04 (2006.01) C11B 3/10 (2006.01)
B01D 15/34 (2006.01)

(21) International Application Number:

PCT/MY2012/000240

(22) International Filing Date:

28 August 2012 (28.08.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PI 2012000467 2 February 2012 (02.02.2012) MY

(71) Applicant (for all designated States except US): **SIME DARBY MALAYSIA BERHAD** [MY/MY]; 19th Floor, Wisma Sime Darby, Jalan Raja Laut, Kuala Lumpur 50350 (MY).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AHMADILFITRI BIN MD., Noor** [MY/MY]; c/o Sime Darby Reserach SDN BHD, KM 10, Jalan Banting-Kelanang, P.O. Box 207, Banting 42700, Selangor Darul Ehsan (MY). **MOHD. SURIA AFFANDI, Yusoff** [MY/MY]; c/o Sime Darby Reserach SDN BHD, KM 10, Jalan Banting-Kelanang, P.O. Box 207, Banting 42700, Selangor Darul Ehsan (MY). **KHAIRUDIN, Hashim** [MY/MY]; c/o Sime Darby Reserach SDN BHD, KM 10, Jalan Banting-Kelanang, P.O. Box 207, Banting 42700, Selangor Darul Ehsan (MY).

(74) Agent: **KHOR, Hong Ping, Pauline**; c/o Rahmat Lim & Partners, Suite 33.01, Level 33, The Gardens, North

Tower, Mid Valley City, Lingkaran Syed Putra Kuala Lumpur 59200 (MY).

(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, 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, QA, RO, RS, RU, RW, 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, 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, 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))
- of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: A PROCESS FOR REFINING GLYCERIDE OIL AND PURIFIED TRIGLYCERIDE OIL OBTAINED SUCH PROCESS

(57) Abstract: The present invention relates to a process for refining glyceride oil by size exclusion chromatography to obtain a triglyceride enriched fraction. The process comprises passing a glyceride oil through a size exclusion column packed with porous particles having a mass weighted mean particle size of 20 to 1,000 pm and an average pore size of 10 to 150A without using any solvent and collecting an eluate fraction enriched in triglyceride. The process may further comprise passing a solvent through the size exclusion column after the eluate fraction enriched in triglyceride is collected to obtain a partial glyceride enriched fraction. The process can suitably be used to produce triglyceride enriched fraction having a triglyceride content that is close to 100%.

