

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 April 2008 (10.04.2008)

PCT

(10) International Publication Number
WO 2008/040973 A1

(51) International Patent Classification:

C07C 1/22 (2006.01) C10G 3/00 (2006.01)
C07C 1/24 (2006.01)

(21) International Application Number:

PCT/GB2007/003757

(22) International Filing Date: 4 October 2007 (04.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

06255162.7 6 October 2006 (06.10.2006) EP

(71) Applicant (for all designated States except US): **BP OIL INTERNATIONAL LIMITED** [GB/GB]; Chertsey Road, Sunbury-on-Thames, Middlesex TW16 7BP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GUDDÉ, Nicholas, John** [GB/GB]; 14 Poplar Avenue, Windlesham, Surrey GU20 6PL (GB). **TOWNSEND, James, Adam** [GB/AU]; 29 Banksia Avenue, Ashgrove, Queensland 4060 (AU).

(74) Agent: **OLDROYD, Richard, Duncan**; BP INTERNATIONAL LIMITED, Global Patents and Technology Law (Central), Chertsey Road, Sunbury-on-Thames, Middlesex TW16 7LN (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

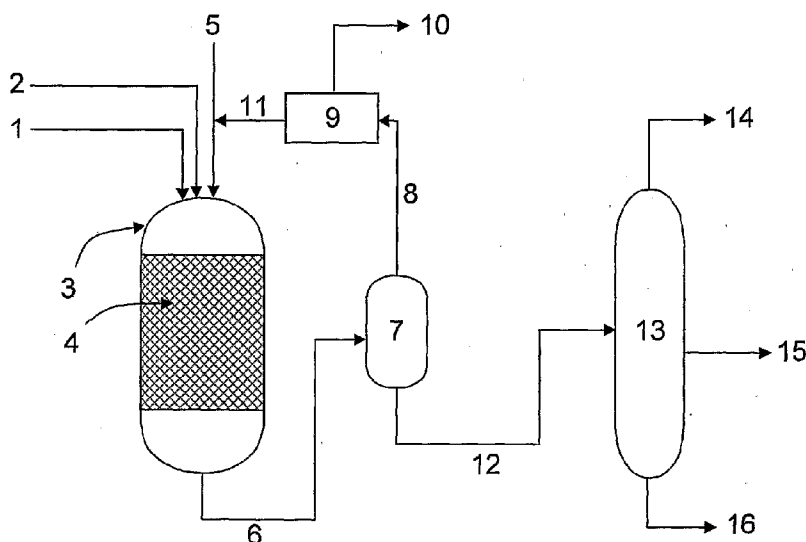
Declarations under Rule 4.17:

- 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

(54) Title: PROCES FOR HYDRO GENATION OF CARBOXYLIC ACIDS AND DERIVATIVES TO HYDROCARBONS



(57) Abstract: A process for hydrogenating a carboxylic acid or derivative thereof comprising feeding a carboxylic acid or derivative thereof and hydrogen to a reactor, maintaining conditions therein such that hydrogen reacts with the carboxylic acid and/or derivative thereof to a product stream comprising one or more hydrocarbons and one or more oxides of carbon, feeding the product stream to a flash separator, wherein a vapour fraction comprising the one or more oxides of carbon is separated from a liquid fraction comprising the one or more hydrocarbons, wherein the concentration of carbon oxides in the flash separator is at or below a predetermined value.

WO 2008/040973 A1