

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2020/188354 A1

(43) International Publication Date
24 September 2020 (24.09.2020)

(51) International Patent Classification:

C07C 29/74 (2006.01) C07C 31/20 (2006.01)
C07C 27/02 (2006.01) C07C 63/26 (2006.01)
C07C 31/04 (2006.01) C08J 11/24 (2006.01)
C07C 31/08 (2006.01)

Published:

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

(21) International Application Number:

PCT/IB2020/000192

(22) International Filing Date:

18 March 2020 (18.03.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/821,264 20 March 2019 (20.03.2019) US

(71) Applicant: 9449710 CANADA INC. [CA/CA]; 480 Fernand-Poitras Street, Terrebonne, Quebec, J6Y1Y4 (CA).

(72) Inventors: ESSADDAM, Fares; 480 Fernand-Poitras Street, Terrebonne, J6Y1Y4 (CA). ZARROUGUI, Ramzi; 480 Fernand-Poitras Street, Terrebonne, J6Y1Y4 (CA). ESSADDAM, Hatem; 480 Fernand-Poitras Street, Terrebonne, J6Y1Y4 (CA).

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: PROCESS FOR RECOVERING AND REUSING DEPOLYMERIZATION CATALYST

(57) Abstract: The present disclosure relates to the recovery of an alkoxide catalyst used in a process depolymerizing a polyester to form a diacid or diester and a diol. The present disclosure also relates to the recovery of an alkoxide catalyst used in a process depolymerizing polyethylene terephthalate to form dimethyl terephthalate and mono ethylene glycol.

WO 2020/188354 A1