

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 January 2012 (12.01.2012)

(10) International Publication Number
WO 2012/004154 A1

PCT

(51) International Patent Classification:

B01J 19/00 (2006.01) **C08F 10/02** (2006.01)
C08F 2/06 (2006.01) **C08F 10/06** (2006.01)
C08F 2/34 (2006.01) **F26B 25/00** (2006.01)

(21) International Application Number:

PCT/EP2011/060791

(22) International Filing Date:

28 June 2011 (28.06.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10168853.9 8 July 2010 (08.07.2010) EP

(71) Applicant (for all designated States except US): **INEOS COMMERCIAL SERVICES UK LIMITED** [GB/GB]; Hawkslease, Chapel Lane, Lyndhurst Hampshire SO43 7FG (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHAMAYOU, Jean-Louis** [FR/FR]; 18 allée des Restanques, F-13620 Carry Le Rouet (FR). **LEE, Stephen Kevin** [GB/GB]; 17 Watery Lane, Merton Park London SW20 9AA (GB).

(74) Agent: **KING, Alex**; Compass Patents LLP, 120 Bridge Road, Chertsey Surrey KT16 8LA (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, 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, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: INTERLOCK AND PROCESS

(57) Abstract: The present invention relates to production of polymer, and in particular provides an interlock for use in a process for production of a polymer in a reactor, which process comprises: a. polymerising a monomer and optionally a comonomer in the reactor to produce polymer, optionally in the presence of an inert hydrocarbon, and b. withdrawing produced polymer from the reactor, said interlock being based on the temperature in the reactor, and comprising: 1. measuring the temperature in the reactor or a temperature representative of the temperature in the reactor, and 2. comparing said measured temperature to a threshold temperature, said interlock being characterised in that withdrawal is allowed if the measured temperature is greater than the threshold temperature but is prevented if the measured temperature is lower than the threshold temperature.



WO 2012/004154 A1