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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 June 2010 (03.06.2010)

PCT

(10) International Publication Number
WO 2010/061270 A1

(51) International Patent Classification:
G11B 25/04 (2006.01) *F16D 1/08* (2006.01)
F16C 27/02 (2006.01) *G01N 3/08* (2006.01)
F16C 27/04 (2006.01) *G11B 5/48* (2006.01)
F16C 35/073 (2006.01)

(21) International Application Number:
PCT/IB2009/007542

(22) International Filing Date:
23 November 2009 (23.11.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0821535.2 25 November 2008 (25.11.2008) GB

(71) Applicant *(for all designated States except US)*: **SAINT-GOBAIN PERFORMANCE PLASTICS RENCOL LIMITED** [GB/GB]; Unit 16 Concorde Road, Patchway, Bristol BS34 5TB (GB).

(72) Inventor: **BANCALARLI, Gino**; 49 Oak Close, Little Stoke, Bristol, BS34 6RB (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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

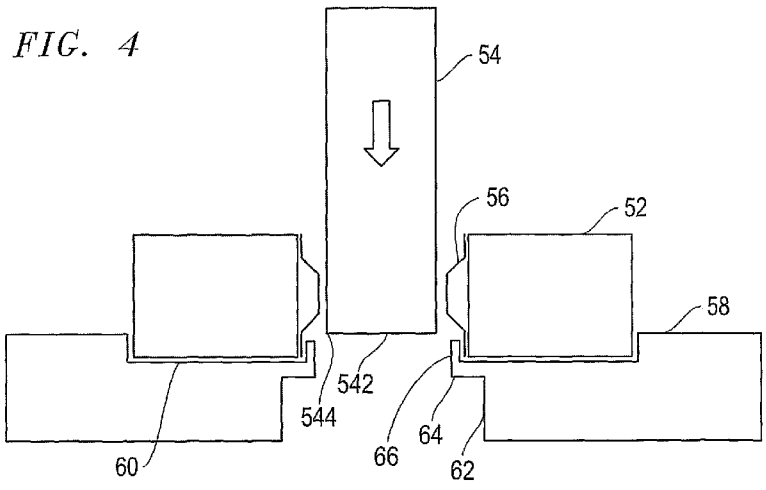
Published:

— *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: PROCESS CONTROL OF TOLERANCE RINGS

FIG. 4



(57) Abstract: A method of process control including constraining a tolerance ring (56) relative to one of an inner (54) and an outer (52) component. The tolerance ring including an annular band of resilient material having a plurality of projections (70) projecting radially therefrom. Additionally, the method includes moving the other of the inner or outer component with respect to the constrained tolerance ring so as to compress the projections of the tolerance ring between the inner and outer components, and continuing movement of the inner or outer component, respectively, beyond the projections. The method further including measuring a force required for continuing movement, and using the force for process control.

WO 2010/061270 A1