



(51) International Patent Classification:
B01J 19/00 (2006.01) **B01L 3/00** (2006.01)

(21) International Application Number:
PCT/US2010/034336

(22) International Filing Date:
11 May 2010 (11.05.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09305420.3 11 May 2009 (11.05.2009) EP

(71) Applicant (for all designated States except US): **CORNING INCORPORATED** [US/US]; 1 Riverfront Plaza, Corning, New York 14831 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GREMETZ, Sylvain M** [FR/FR]; 17 rue de bateau, F-77130 Montereau Fault Yonne (FR). **GUICHARD, Aurelie** [FR/FR]; 60 rue des Caves, F-89340 Champigny (FR). **GUIDAT, Roland** [FR/FR]; 1 Impasse des Forgerons, F-77940 Blennes (FR). **LOBET, Olivier** [FR/FR]; 25 rue des Melezes, F-91540 Mennecy (FR). **POISSY, Stephane** [FR/FR]; 3 rue Charcot, F-91800 Brunoy (FR). **WOEHL, Pierre** [FR/FR]; 8 rue de Gretz, F-77240 Cesson (FR).

(74) Agent: **BEAN, Gregory V**; Corning Incorporated, Intellectual Property Department, SP-TI-3-1, Corning, New York 14831 (US).

(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, 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))

[Continued on next page]

(54) Title: MODULAR REACTOR AND SYSTEM

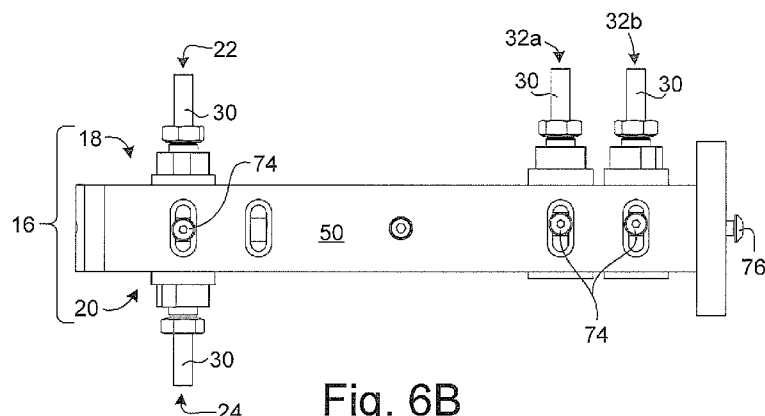


Fig. 6B

(57) Abstract: In one aspect the invention relates to reactors and a reactor system that include multiple microstructures each having a first edge and a second edge and an entrance side (18) and including an entrance port (22) and one or more other ports through the entrance side with all of the ports through the entrance side (32a, 32b) arranged in a standard pattern and closer to the first edge than the second edge. Desirably, the entrance port (22) and an exit port (24) are concentric.



(88) Date of publication of the international search report:

9 June 2011