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(21) International Application Number: PCT/CA97/00135 (22) International Filing Date: 28 February 1997 (28.02.97) (30) Priority Data: 2,170,681 29 February 1996 (29.02.96) CA (71) Applicant (for all designated States except US): ROYAL BUILDING SYSTEMS (CDN) LIMITED [CA/CA]; 1 Royal Gate Boulevard, Woodbridge, Ontario L4L 8Z7 (CA). (72) Inventor; and (75) Inventor/Applicant (for US only): DE ZEN, Vittorio [CA/CA]; 300 Greenbrook Drive, Woodbridge, Ontario L4L 1A6 (CA). (74) Agents: JOHNSON, Douglas, S. et al.; Suite 301, 133 Richmond Street West, Toronto, Ontario M5H 2L7 (CA).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MY, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
(54) Title: INSULATED WALL AND COMPONENTS THEREFOR		
(57) Abstract A novel insulated wall structure is formed with upright hollow thermoplastic extrusions connected together in a row, with the extrusions presenting a row of compartments (15, 22, 30) adapted to receive concrete (39) extending along the length of the wall structure and a row of compartments (16, 23, 33) containing or adapted to receive insulation (38) material also extending along the length of the wall along side or in parallel with the row of concrete receiving compartments (15, 22, 30) whereby when the compartments (15, 22, 30) adapted to receive concrete (39) are filled with concrete (39) and the insulation (38) receiving compartments (16, 23, 33) are filled with insulation (38), the insulation (38) in said insulation (38) receiving compartments (16, 23, 33) is positioned to block heat transfer through the wall. Also novel wall forming units or components for the wall structure in the form of elongated hollow thermoplastic extrusions having internal walls (12, 13, 14, 21, 29, 32) to provide the requisite concrete (39) receiving and insulation (38) receiving or containing compartments (15, 16, 22, 23, 30, 33).		