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(21) International Application Number: PCT/US98/26795 (22) International Filing Date: 16 December 1998 (16.12.98) (30) Priority Data: 08/991,836 16 December 1997 (16.12.97) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 08/991,836 (CIP) Filed on 16 December 1997 (16.12.97) (71) Applicant (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): MARKOVICH, Ronald, P. [US/US]; Number 711, 18800 Egret Bay Boulevard, Houston, TX 77058 (US). CHEUNG, Yunwa, W. [US/US]; 104 Rosemary Lane, Lake Jackson, TX 77566 (US). GUEST, Martin, J. [GB/US]; 106 Greenbriar, Lake Jackson, TX 77566 (US). GATHERS, John, J. [US/US]; 3615 Hanover Circle, Pearland, TX 77584 (US). DE LASSUS,		Phillip, T. [US/US]; 119 White Oak Drive, Lake Jackson, TX 77566 (US). (74) Agent: MCKINNEY, Osborne, K.; Patent Dept., B-1211, 2301 Brazosport Boulevard, Freeport, TX 77541 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: SEALS PRODUCED FROM ALPHA-OLEFIN/VINYLDENE AROMATIC AND/OR HINDERED ALIPHATIC VINYLIDENE/INTERPOLYMER BASED MATERIALS AND SEALING SYSTEMS THEREFROM		
(57) Abstract The present invention discloses seals including container closure liners, gaskets and barrier membranes, comprising a polymer composition having an oxygen transmission coefficient at a temperature of 25 °C of less than about 300 cm³.mil/100 in².day.atm. (1.2 cm³/cm².day.MPa), wherein the polymer composition comprises at least one substantially random interpolpolymer (or a blend comprising at least one substantially random interpolpolymer and at least one other polymer) and from 0 to 80 percent by weight (based on the total weight of the composition) of at least one filler. The present invention also discloses sealing systems which include container closures such as bottle caps comprising these seals. The interpolymers or blends used to produce the seals of the present invention (as well as the novel seals themselves) exhibit a unique balance of properties including low oxygen permeability, low Shore A hardness and excellent tensile strain recovery.		