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(21) International Application Number: PCT/EP99/04556 (22) International Filing Date: 1 July 1999 (01.07.99) (30) Priority Data: 60/091,992 8 July 1998 (08.07.98) US (71) Applicant (for all designated States except MN): ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Two Greenville Crossing, Suite 238, 4001 Kennett Pike, Greenville, DE 19807 (US). (71) Applicant (for MN only): LYONDELL CHEMIE TECHNOLOGIE NEDERLAND B.V. [NL/NL]; Theemsweg 14, NL-3197 KM Botlek (NL). (72) Inventors: LIOTTA, Frank, J., Jr.; 656 S. Trappe Road, Collegeville, PA 19426 (US). SCHWARTZ, Steven, A.; 102 Brierley Court, Downingtown, PA 19335 (US). (74) Agent: COLMER, Stephen, Gary; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, 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, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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: SUPPORTED CARBONIC ACID ESTERS USEFUL AS SET ACCELERATORS AND THIXOTROPIC AGENTS IN CEMENT (57) Abstract Cementitious compositions are prepared using a dry, flowable admixture containing an ester of carbonic acid such as propylene carbonate and a solid, particulate support which is non-reactive toward the ester such as silica fume. Such admixtures accelerate the set and increase the thixotropy of unhardened mixtures containing hydraulic cement and water, yet can be readily handled and stored in stable form until ready to be used.		