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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: C08L 7/02, C08K 3/34	A1	(11) International Publication Number: WO 97/00910 (43) International Publication Date: 9 January 1997 (09.01.97)
(21) International Application Number: PCT/US96/07226 (22) International Filing Date: 17 May 1996 (17.05.96) (30) Priority Data: 08/494,208 23 June 1995 (23.06.95) US (71) Applicant: EXXON RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (72) Inventors: ELSPASS, Chester, W.; 496 Franklin Street, Alpha, NJ 08865 (US). KRESGE, Edward, N.; 68 Parlin Lane, Watchung, NJ 07060 (US). PHEIFFER, Dennis, G.; 33 John Drive, Annandale, NJ 08801 (US). HSEIH, Dong-Tsai; 6803 Temple City Boulevard, Arcadia, CA 91007 (US). CHLUDZINSKI, James, J.; 31 Caspenberger Road, Whitehouse, NJ 08889 (US). (74) Agents: SIMON, Jay et al.; Exxon Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US).		(81) Designated States: AU, BR, CA, CN, HU, JP, KP, MX, NO, PL, RU, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: POLYMER NANOCOMPOSITE FORMATION BY EMULSION SYNTHESIS (57) Abstract The formation of a nanocomposite by emulsion polymerization is described. The invention includes the nanocomposite latex, a solid nanocomposite of a layered silicate mineral intercalated with an emulsion polymer and blends of the solid nanocomposite with other polymers.		