



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08F 8/46, C10M 143/00, 145/00	A1	(11) International Publication Number: WO 98/31718 (43) International Publication Date: 23 July 1998 (23.07.98)
(21) International Application Number: PCT/US97/10098 (22) International Filing Date: 7 July 1997 (07.07.97) (30) Priority Data: 785,206 ☒ 17 January 1997 (17.01.97) ☒ US (71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 1900 East Linden Avenue, P.O. Box 107, Linden, NJ 07036 (US). (72) Inventors: SPENCER, Jeremy, Roger; 3 Little Langlands, Didcot, East Hagbourne OX11 9TA (GB); RUSSELL, Robert, William; Fullwell Close, Abingdon OX14 1JX (GB); SWANGNER, Ronald, Paul; 29 Euston Road, Garden City, NY 11530 (US). (74) Agent: WALTON, Kenneth, R.; Exxon Chemical Company, 1900 East Linden Avenue, P.O. Box 710, Linden, NJ 07036 (US).	(81) Designated States: BR, JP, MX, SG , European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. 9902684-1 1PDS3 6093	
(54) Title: PROCESS FOR PREPARING POLYALKENYL SUBSTITUTED MONO- AND DICARBOXYLIC ACID PRODUCING MATERIALS (57) Abstract A low-sediment, low-tar, chlorine-free thermal process for preparing oil-soluble polyalkenyl derivatives of monounsaturated C ₃ -C ₁₀ monocarboxylic acid producing compounds and monounsaturated C ₄ -C ₁₀ dicarboxylic acid producing compounds is disclosed. The process involves reacting the mono- or dicarboxylic acid producing compound with a polyalkene at high temperature and under high inert gas partial pressure in the presence of a sediment-inhibiting amount of hydrocarbyl substituted sulfonic acid. The polyalkenyl derivatives are useful per se as additives in lubricating oils, functional fluids, and fuels and are also useful as intermediates in the preparation of other products (e.g., succinimides) useful as additives in lubricating oils, functional fluids, and fuels.		

