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(21) International Application Number: PCT/US99/11560 (22) International Filing Date: 26 May 1999 (26.05.99) (30) Priority Data: 09/102,718 23 June 1998 (23.06.98) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: COOLBAUGH, Thomas, Smith; 1266 Madison Drive, Yardley, PA 19067 (US). LOVELESS, Frederick, Charles; 10 Hackamore Circle, Middlebury, CT 06762 (US). MARLIN, John, Emory, II; 691 St. Georges Road, Bridgewater, NJ 08807 (US). MATTHEWS, Demetrios, Nestor; 250 Westgate Drive, Edison, NJ 08820 (US). (74) Agents: CUOMO, Lori, F. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).		(81) Designated States: AU, BR, CA, CN, IN, JP, KR, MX, NO, RU, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>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.</i>
(54) Title: DISPERSANTS AND DISPERSANT VISCOSITY INDEX IMPROVERS FROM SELECTIVELY HYDROGENATED POLYMERS: HYDROFORMYLATION/REDUCTIVE AMINATION REACTION PRODUCTS		
(57) Abstract The invention provides dispersants and dispersant viscosity index improvers which include polymers of conjugated dienes which have been hydrogenated, functionalized, optionally modified and post treated. The dispersant substances include a copolymer of two different conjugated dienes. The polymers are selectively hydrogenated to produce polymers which have highly controlled amounts of unsaturation, permitting highly selective functionalization. The polymers may be functionalized by hydroformylation followed by reductive amination. Also provided are lubricant fluids, such as mineral and synthetic oils, which have been modified in their dispersancy and/or viscometric properties by means of the dispersant substances of the invention. Also provided are methods of modifying the dispersancy and/or viscometric properties of lubricating fluids such as mineral and synthetic lubricating oils. The dispersant substances may also include a carrier fluid to provide dispersant concentrates.		