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(21) International Application Number: PCT/US98/23519 (22) International Filing Date: 3 November 1998 (03.11.98) (30) Priority Data: 08/989,295 11 December 1997 (11.12.97) US (71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520-5200 (US). (72) Inventors: MATSUNAGA, Phillip, T.; 16403 Heatherdale Drive, Houston, TX 77059 (US). SCHIFFINO, Rinaldo, S.; 4215 Meadow Forest Lane, Kingwood, TX 77345 (US). (74) Agents: MULLER, William, G. et al.; Exxon Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US).		(81) Designated States: BR, CA, CN, JP, KR, MX, 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.</i>
(54) Title: REDUCED OXIDATION STATE TRANSITION METAL COMPOUNDS USEFUL AS OLEFIN POLYMERIZATION CATALYSTS (57) Abstract This invention is directed to reduced oxidation state Group 4-6 metal compounds, preferably the first row metals in those groups, suitable for activation as polymerization catalysts and characterized by comprising a substituted hydrotris(pyrazolyl)borate ancillary ligand and a plurality of single or multidentate uninegative ligands, excluding cyclopentadienyl ligands. The invention includes a polymerisation process characterized by comprising contacting one or more monomers polymerizable by coordination or insertion polymerization under suitable polymerization conditions with these catalyst compositions.		