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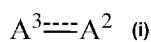
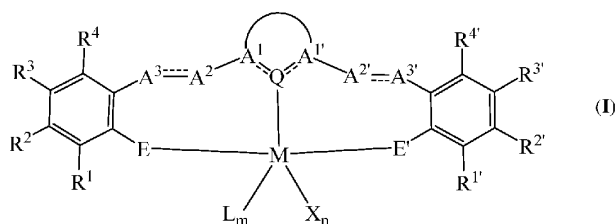
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(54) Title: POLYETHYLENE COMPOSITIONS OBTAINED USING TRANSITION METAL BIS(PHENOLATE) CATALYST COMPLEXES AND HOMOGENEOUS PROCESS FOR PRODUCTION THEREOF



(57) Abstract: This invention relates to a homogeneous process to produce polyethylene compositions using transition metal complexes of a dianionic, tridentate ligand that features a central neutral heterocyclic Lewis base and two phenolate donors, where the tridentate ligand coordinates to the metal center to form two eight-membered rings. Preferably the bis(phenolate) complexes are represented by formula (I) where M, L, X, m, n, E, E', Q, R¹, R², R³, R⁴, R^{1'}, R^{2'}, R^{3'}, R^{4'}, A¹, A^{1'}, Group(i), and Group(ii) are as defined herein, where A¹QA^{1'} are part of a heterocyclic Lewis base containing 4 to 40 non-hydrogen atoms that links A² to A^{2'} via a 3-atom bridge with Q being the central atom of the 3-atom bridge.

WO 2021/162748 A1