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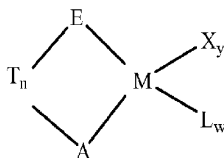
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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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(54) **Title:** METALLOCENE CATALYST COMPOUNDS HAVING FERROCENYL SUBSTITUENTS



(I).

(57) **Abstract:** In some embodiments, a catalyst compound is represented by Formula (I): M is a group 3-5 metal, a lanthanide metal atom, or an actinide metal atom. E is a substituted polycyclic arenyl ligand bonded to M and is substituted by at least one ferrocenyl substituent bonded to an aromatic six-membered ring of the polycyclic arenyl ligand. A is a monoanionic ligand bonded to M. n is 0 or 1. T is bonded to A and E, and is a bridging group containing a group 13, 14, 15, or 16 element, and is present when n is one and absent when n is zero. Each instance of X is independently a univalent anionic ligand, or two Xs are joined and bound to M to form a metallocycle ring, or two Xs are joined to form a chelating ligand, a diene ligand, or an alkylidene ligand.

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