

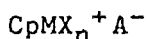
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ABSTRACT

METAL COMPLEX COMPOUNDS,
PROCESS FOR PREPARATION AND METHOD OF USE

A monocyclopentadienyl or substituted
monocyclopentadienyl metal complex containing compound
useful as an addition polymerization catalyst
corresponds to the formula:



5 wherein:

Cp is a single η^5 -cyclopentadienyl or η^5 -
substituted cyclopentadienyl group optionally covalently
bonded to M through a substituent;

10 M is a metal of Group 3-10 or the Lanthanide
Series of the Periodic Table bound in an η^5 bonding mode
to the cyclopentadienyl or substituted cyclopentadienyl
group;

X each occurrence is hydride or a moiety
15 selected from halo, alkyl, aryl, silyl, germyl, aryloxy,
alkoxy, amide, siloxy, and combinations thereof having
up to 20 non-hydrogen atoms, neutral Lewis base ligands
having up to 20 non-hydrogen atoms; or optionally one X
together with Cp forms a metallocycle of up to 20 non-
20 hydrogen atoms with M;

n is 1 or 2 depending on the valence of M; and

A⁻ is a noncoordinating, compatible anion of a
Bronsted acid salt.

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