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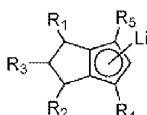
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(54) Title: METHODS OF MAKING ALKYLATED METALLOCENES HAVING ONE OR MORE TETRAHYDROPENTAL-
ENYL GROUPS



(57) Abstract: Embodiments of the present disclosure are directed towards methods of making an alkylated met-
allocene having one or more tetrahydropentalenyl groups, the method comprising: reacting a chloride compound
with a lithium compound to make a reaction mixture comprising an intermediate dichloride compound; and react-
ing the intermediate dichloride compound with an alkylating agent to make the alkylated metallocene having one
or more tetrahydropentalenyl groups, wherein the dichloride compound is not isolated from the reaction mixture,
wherein the lithium compound is represented by: wherein R₁, R₂, R₃, R₄, and R₅ are each independently H or
a (C1-C4) alkyl.

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