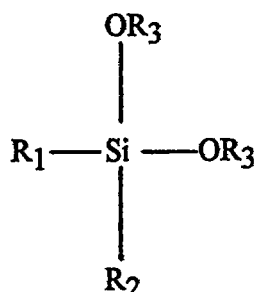


ABSTRACT OF THE DISCLOSURE:

**CATALYST FOR THE POLYMERIZATION OF ALPHA-OLEFINS CONTAINING
SUBSTITUTED AMINO SILANE COMPOUNDS**

An aminosilane of the formula:



5

where R₁ is a linear or branched C₁₋₂₂ alkyl or C₃₋₂₂ cycloalkyl, which may be substituted with at least one halogen atom; R₂ is a bis(linear or branched C₁₋₂₂ alkyl or C₃₋₂₂ cycloalkyl)amino, a substituted piperidinyl, a substituted pyrrolidinyl, decahydroquinolinyl, 1,2,3,4-tetrahydroquinolinyl or 1,2,3,4-tetrahydroisoquinolinyl, with
10 the substituent selected from the group consisting of C₁₋₈ alkyl, phenyl, C₁₋₈ linear or branched alkylsubstituted phenyl and trimethylsilyl, with the proviso that when the substituent is C₁₋₈ alkyl, there must be at least two such substituent groups present and R₁ must contain halogen; and R₃ is a linear or branched C₁₋₈ alkyl or C₃₋₈ cycloalkyl.

The aminosilane may be reacted with an aluminum-alkyl compound and a solid component
15 comprising a titanium compound having at least one titanium-halogen bond and an electron donor, both supported on an activated anhydrous magnesium dihalide, to form a catalyst for polymerization of olefins.