

Title (en)

SILOXY SUBSTITUTED COCATALYST ACTIVATORS FOR OLEFIN POLYMERIZATION

Title (de)

SILOXY SUBSTITUIERTE COKATALYSATORAKTIVATOREN FÜR OLEFINPOLYMERISATION

Title (fr)

ACTIVATEURS DE COCATALYSEURS SUBSTITUES PAR UN GROUPE SILOXY POUR POLYMERISATION DES OLEFINES

Publication

**EP 1297027 A1 20030402 (EN)**

Application

**EP 01948483 A 20010619**

Priority

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- US 60228900 A 20000623
- US 59990900 A 20000623

Abstract (en)

[origin: WO0200738A1] This description addresses ionic compositions of matter comprising positively charged cations [Ct]<sup>+</sup> and negatively charged anions [A]<sup>-</sup>, said anion comprising a central core Group 13 element to which are bound fluoroaryl ligands, at least one of said fluoroaryl ligands being substituted with a siloxy group represented by the symbols -SiOR<sub>3</sub>, wherein R is a C<sub>1</sub>-C<sub>30</sub> hydrocarbyl or hydrocarbylsilyl substituent. [Ct]<sup>+</sup> may be selected from any capable of use with olefin polymerization catalysts and typically will be from the group consisting of anilinium and ammonium cations, trityl carbenium cations, Group 11 metal cations, silylium cations, the cations of the hydrated salts of Group 1 or 2 metals, and derivatives of the foregoing anilinium, ammonium, trityl carbenium, and silylium cations containing C<sub>1</sub>-C<sub>20</sub> hydrocarbyl, hydrocarbylsilyl, or hydrocarbylamine substituents for one or more hydrogen atoms of said cations. The ionic compositions described can be used to activate olefin polymerization catalysts, and can be prepared so as to be soluble in aliphatic solvents. Syntheses and polymerization are illustrated.

IPC 1-7

**C08F 10/00**; **C08F 4/643**

IPC 8 full level

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