



Fluoroborane Salts Comprising a Reactive Cation and Uses Thereof

Weakly coordinating anion salts of reactive cations are useful in a variety of reactions including polymerization reaction, coupling reaction, and other catalytic reactions. Reactive cations of interest include: silver cation, silylium cations, aluminum cations, ammonium cations, protonated arenes, and triaryl carbocation. The generation of stable reactive cations, such as cation-like aluminum, in the presence of weakly coordinating anions has been elusive. Strauss and Ivanov, have developed technologies that provide stable catalyst components of weakly coordinating anion salt and a reactive cation. The anions of this technology are highly fluorinated borate moieties.

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Patent Information

US Patent 6,448,447
US Patent 6,645,903

Inventor Information

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Features and Benefits

- Compositions are soluble and stable in solution.
- Eliminates the need to use either strong Lewis or Bronsted acids to accomplish arene-olefin coupling.
- Stable co-catalysts for an alpha-olefin (e.g., ethylene) polymerization.

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