

Title (en)

Titanium trichloride compositions, preparation thereof, catalyst system containing them and polymerisation of olefins using this system.

Title (de)

Titantrichloridpräparate und deren Herstellung, Katalysatorsysteme die dieses Präparat enthalten und deren Anwendung zur Polymerisation von Olefinen.

Title (fr)

Compositions à base de trichlorure de titane, préparation de celles-ci, système catalytique les contenant et polymérisation d'oléfines à l'aide de ce système.

Publication

EP 0000998 A1 19790307 (EN)

Application

EP 78300284 A 19780814

Priority

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Abstract (en)

A titanium trichloride composition has the formula: $\text{TiCl}_3(\text{AlR}_x\text{X}_{3-x})_n\text{EaLb}$ where E is an ether or thioether; L is an organic sulphur-containing compound; and a and b are each greater than 0.001 and not more than 0.50. The composition has a low surface area, typically less than $50 \text{ m}^2/\text{g}$. The composition can be prepared by reacting titanium tetrachloride with an organoaluminium compound, optionally heating the reaction product, contacting the reaction product at an elevated temperature with at least E, and preferably L and washing the product. In the composition, E is conveniently di-n-butyl ether or di-isoamyl ether and L can be phenoxathiin or diphenyl sulphone. The composition can be used as a component of a catalyst for the polymerisation of olefine monomers such as propylene.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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C-Set (source: EP US)

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3. **C08F 10/00** + **C08F 4/655**
4. **C08F 10/00** + **C08F 4/6552**

Citation (search report)

- [A] FR 2320308 A1 19770304 - MONTEDISON SPA [IT]
- [A] FR 2314924 A1 19770114 - ICI LTD [GB]
- [A] FR 2099150 A5 19720310 - MITSUI TOATSU CHEMICALS

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