Title (en)

TOLUENE FREE SILICA SUPPORTED SINGLE-SITE METALLOCENE CATALYSTS FROMIN-SITU

Title (de)

TOLUOLFREIE SILICIUMDIOXIDGETRÄGERTE SINGLE-SITE-METALLOCENKATALYSATOREN AUS IN-SITU

Title (fr)

CATALYSEURS MÉTALLOCÈNES MONOSITES SUPPORTÉS SUR SILICE EXEMPTS DE TOLUÈNE CONTENUS DANS UNE FORMATION DE MAO SUPPORTÉEIN-SITU

Publication

EP 3704164 A4 20201223 (EN)

Application

EP 18872918 A 20180917

Priority

- US 201762579587 P 20171031
- EP 18152100 A 20180117
- US 2018051345 W 20180917

Abstract (en)

[origin: WO2019089144A1] The present disclosure provides a method for preparing a catalyst system comprising contacting in an aliphatic solvent at a temperature of from less than 0°C to -60°C at least one support material having absorbed water and at least one hydrocarbyl aluminum compound to form a supported alumoxane (catalyst precursor) and contacting the supported alumoxane with at least one catalyst compound having a Group 3 through Group 12 metal atom or lanthanide metal atom. The supported alumoxane may be heated prior to contact with the catalyst compound.

IPC 8 full level

C08F 10/00 (2006.01); **C08F 4/642** (2006.01); **C08F 4/6592** (2006.01)

CPC (source: EP)

C07F 7/00 (2013.01); **C07F 17/00** (2013.01); **C08F 10/00** (2013.01); C08F 4/65916 (2013.01); C08F 4/65925 (2013.01); C08F 4/65927 (2013.01)

C-Set (source: EP)

1. **C08F 110/06** + **C08F 2/14**
2. **C08F 210/16** + **C08F 2/34**
3. **C08F 110/14** + **C08F 2/02**
4. **C08F 10/00** + **C08F 4/6428**
5. **C08F 10/00** + **C08F 4/65912**
6. C08F 110/02 + C08F 2500/02
7. C08F 110/06 + C08F 2500/02

Citation (search report)

- [X] WO 9426793 A1 19941124 - EXXON CHEMICAL PATENTS INC [US]
- [X] US 5468702 A 19951121 - JEJELOWO MOSES O [US]
- See also references of WO 2019089144A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019089144 A1 20190509; CN 111356704 A 20200630; CN 111356704 B 20230505; EP 3704164 A1 20200909; EP 3704164 A4 20201223; SG 11202003478S A 20200528

DOCDB simple family (application)

US 2018051345 W 20180917; CN 201880074989 A 20180917; EP 18872918 A 20180917; SG 11202003478S A 20180917