

Title (en)

PROCESSES FOR PRODUCING HIGH PROPYLENE CONTENT PEDM HAVING LOW GLASS TRANSITION TEMPERATURES USING TETRAHYDROINDACENYL CATALYST SYSTEMS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PEDM MIT HOHEM PROPYLENGEHALTN UND MIT NIEDRIGEN GLASÜBERGANGSTEMPERATUREN UNTER VERWENDUNG VON TETRAHYDROINDACENYL-KATALYSATORSYSTEMEN

Title (fr)

PROCÉDÉS DE PRODUCTION DE PEDM À TENEUR ÉLEVÉE EN PROPYLÈNE AYANT DE FAIBLES TEMPÉRATURES DE TRANSITION VITREUSE À L'AIDE DE SYSTÈMES DE CATALYSEUR DE TÉTRAHYDROINDACÉNYLE

Publication

**EP 3768741 A4 20211229 (EN)**

Application

**EP 19771406 A 20190318**

Priority

- US 201862644971 P 20180319
- EP 18175882 A 20180605
- US 2019022764 W 20190318

Abstract (en)

[origin: WO2019182979A1] The present disclosure provides methods for producing an olefin polymer by contacting a C3-C40 olefin, ethylene and a diene with a catalyst system including an activator and a metallocene catalyst compound comprising a substituted or unsubstituted indacenyl group and obtaining a C3-C40 olefin-ethylene-diene terpolymer typically comprising from 30 to 55 mol% ethylene, from 69.09 to 45 mol% C3 to C40 comonomer, and from 0.01 to 7 mol% diene wherein the Tg of the terpolymer is -28 °C or less. Preferably, a propylene-ethylene-ethylidene norbornene is obtained.

IPC 8 full level

**C08F 210/18** (2006.01); **C08F 4/6592** (2006.01)

CPC (source: EP)

**B60C 1/00** (2013.01); **B60C 1/0016** (2013.01); **C09J 123/16** (2013.01); **C08F 4/65908** (2013.01); **C08F 210/06** (2013.01); **C08F 210/08** (2013.01); **C08F 2420/02** (2013.01); **C08F 2420/10** (2021.01)

Citation (search report)

- [AD] US 2016244535 A1 20160825 - CANICH JO ANN M [US], et al
- [AD] WO 9827103 A1 19980625 - DOW CHEMICAL CO [US]
- [XDA] WO 2016053542 A1 20160407 - EXXONMOBIL CHEM PATENTS INC [US]
- See references of WO 2019182979A1

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

DOCDB simple family (publication)

**WO 2019182979 A1 20190926**; CN 111868117 A 20201030; CN 111868117 B 20230421; CN 112004841 A 20201127; CN 112004841 B 20230526; EP 3768740 A1 20210127; EP 3768740 A4 20211229; EP 3768741 A1 20210127; EP 3768741 A4 20211229; SG 11202008735R A 20201029; SG 11202009191R A 20201029; WO 2019182968 A1 20190926; WO 2019182982 A1 20190926

DOCDB simple family (application)

**US 2019022764 W 20190318**; CN 201980020382 A 20190318; CN 201980027639 A 20190318; EP 19770688 A 20190318; EP 19771406 A 20190318; SG 11202008735R A 20190318; SG 11202009191R A 20190318; US 2019022738 W 20190318; US 2019022771 W 20190318