

Title (en)

METHOD FOR PRODUCING HIGH-MOLECULAR-WEIGHT POLYISOBUTYLENE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HÖHERMOLEKULAREM POLYISOBUTYLEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE POLYISOBUTYLÈNE DE HAUT POIDS MOLÉCULAIRE

Publication

**EP 2814851 A1 20141224 (DE)**

Application

**EP 13704127 A 20130215**

Priority

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- EP 2013053042 W 20130215
- EP 13704127 A 20130215

Abstract (en)

[origin: WO2013120984A1] The invention relates to the production of isobutylene homopolymers having a weight-average molecular weight of 75,000 to 10,000,000 by means of the polymerization of isobutylene by (a) performing the polymerization at -80°C to -190°C, (b) using optionally halogenated C1 to C5 hydrocarbons as an inert solvent, (c) using a Lewis acid complex as a polymerization catalyst, and (d) performing the polymerization in the presence of at least one reaction accelerator in the form of an ethylenically saturated hydrocarbon compound, which contains an oxygen atom and no proton that can be emitted, and performing the polymerization in the presence of at least one chain length regulator, which contains a tertiary olefinic carbon atom.

IPC 8 full level

**C08F 10/10** (2006.01)

CPC (source: EP)

**C08F 10/10** (2013.01)

Citation (search report)

See references of WO 2013120984A1

Citation (examination)

DE 3332629 A1 19850328 - BERSTORFF GMBH MASCH HERMANN [DE], et al

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