

Title (en)  
HETEROPHASIC COPOLYMERS AND SEQUENTIAL POLYMERIZATION

Title (de)  
HETEROPHASIGE COPOLYMERE UND SEQUENTIELLE POLYMERISIERUNG

Title (fr)  
COPOLYMÈRES HÉTÉROPHASIQUES ET POLYMÉRISATION SÉQUENTIELLE

Publication  
**EP 3303419 A4 20180620 (EN)**

Application  
**EP 16803915 A 20160429**

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• US 2016030045 W 20160429

Abstract (en)  
[origin: WO2016195870A1] This invention relates to heterophasic copolymers of propylene and an alpha olefin comonomer having a high fill phase content ( $\geq 15\%$ ), and heterophasic polymerization processes using a single site catalyst system with a support having high average particle size ( $PS \geq 30 \mu m$ ), high surface area ( $SA \geq 400 m^2/g$ ), low pore volume ( $PV \leq 2 mL/g$ ), and a mean pore diameter range of  $1 \leq PD \leq 20 nm$ .

IPC 8 full level  
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**C08F 2/001** (2013.01 - CN); **C08F 10/06** (2013.01 - EP); **C08F 110/06** (2013.01 - CN); **C08F 210/06** (2013.01 - CN);  
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Citation (search report)  
• [I] WO 9611218 A1 19960418 - MONTELL TECHNOLOGY COMPANY BV [NL]  
• [I] US 6916886 B2 20050712 - MORIOKA TETSUYA [JP], et al  
• [I] WO 2015065676 A1 20150507 - EXXONMOBIL CHEM PATENTS INC [US]  
• [I] US 2014221514 A1 20140807 - DATTA SUDHIN [US], et al  
• [I] WO 2015070360 A1 20150521 - BOROUGE COMPOUNDING SHANGHAI CO LTD [CN]  
• [A] WO 2015059229 A1 20150430 - BOREALIS AG [AT]  
• See references of WO 2016195870A1

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

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