

Title (en)

SYNTHESIS OF ULTRA-SMALL PORE ALUMINOSILICATES BY CONTROLLED STRUCTURAL COLLAPSE OF ZEOLITES

Title (de)

SYNTHESE VON ALUMOSILIKATEN MIT ULTRAKLEINEN POREN DURCH KONTROLLIERTEN STRUKTURELLEN KOLLAPS VON ZEOLITHEN

Title (fr)

SYNTHÈSE D'ALUMINOSILICATES À PORES ULTRA-PETITS À L'AIDE D'EFFONDREMENT STRUCTUREL RÉGULÉ DE ZÉOLITES

Publication

**EP 3250309 A1 20171206 (EN)**

Application

**EP 16705367 A 20160126**

Priority

- US 201514605645 A 20150126
- US 2016014923 W 20160126

Abstract (en)

[origin: WO2016123104A1] The present invention relates to an amorphous adsorbent composition capable of purifying a gaseous hydrocarbon fraction and methods for synthesizing the composition. The composition is advantageously capable of filtering non-combustible contaminants for increasing the quality and heating value of a gaseous hydrocarbon such as methane. The composition comprises a zeolite based framework that is at least partially collapsed and capable of selectively adsorbing and desorbing gaseous components such as methane and carbon dioxide for purifying the gaseous hydrocarbon fraction.

IPC 8 full level

**B01D 53/04** (2006.01); **B01J 20/18** (2006.01); **B01J 20/28** (2006.01); **B01J 20/30** (2006.01); **B01J 29/70** (2006.01)

CPC (source: EP KR)

**B01D 53/002** (2013.01 - EP KR); **B01D 53/04** (2013.01 - EP KR); **B01J 20/186** (2013.01 - EP KR); **B01J 20/2808** (2013.01 - EP KR); **B01J 20/3078** (2013.01 - EP KR); **B01J 20/3085** (2013.01 - EP KR); **B01J 29/60** (2013.01 - EP); **B01J 29/7003** (2013.01 - EP); **B01D 2253/108** (2013.01 - EP); **B01D 2253/1085** (2013.01 - EP); **B01D 2256/245** (2013.01 - EP); **B01D 2257/504** (2013.01 - EP); **B01J 2229/16** (2013.01 - EP); **B01J 2229/22** (2013.01 - EP); **B01J 2229/36** (2013.01 - EP); **Y02C 20/40** (2020.08 - EP)

Citation (search report)

See references of WO 2016123104A1

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 2016123104 A1 20160804**; CN 107921354 A 20180417; CN 107921354 B 20191122; EP 3250309 A1 20171206; JP 2018505046 A 20180222; JP 6622314 B2 20191218; KR 101927015 B1 20181207; KR 20180030768 A 20180326; SA 517381835 B1 20210518; SG 11201705317S A 20170830

DOCDB simple family (application)

**US 2016014923 W 20160126**; CN 201680007328 A 20160126; EP 16705367 A 20160126; JP 2017539319 A 20160126; KR 20177023945 A 20160126; SA 517381835 A 20170629; SG 11201705317S A 20160126