Title (en)
METHOD FOR THE MULTI-SEEDING SYNTHESIS OF ZEOLITE CRYSTALS WITH CONTROLLED GRAIN SIZE

Title (de)
VERFAHREN ZUR MULTIIMPFSYNTHESE VON ZEOLITHKRISTALLEN MIT KONTROLLIERTER KORNGRÖSSE

Title (fr)
PROCÉDÉ DE SYNTHÈSE À ENSEMENCEMENT MULTIPLE DE CRISTAUX DE ZÉOLITHE À GRANULOMÉTRIE CONTRÔLÉE

Publication
EP 3596011 A1 20200122 (FR)

Application
EP 18713329 A 20180312

Priority
• FR 1752198 A 20170317
• FR 2018050570 W 20180312

Abstract (en)
[origin: WO2018167416A1] The present invention concerns a method for preparing zeolite crystals having a multi-modal grain size distribution, and the sizes of which are between 0.02 μm and 20 μm, said method comprising a first introduction of one or more seeding agents into the tubular reactor or upstream of the tubular reactor, and at least a second introduction of one or more identical or different seeding agents into the tubular reactor.

IPC 8 full level
C01B 39/02 (2006.01); **C01B 39/14** (2006.01); **C01B 39/20** (2006.01); **C01B 39/26** (2006.01); **C01B 39/30** (2006.01); **C01B 39/34** (2006.01); **C01B 39/36** (2006.01); **C01B 39/46** (2006.01)

CPC (source: EA EP KR US)
B01J 29/08 (2013.01 - US); **B01J 29/18** (2013.01 - US); **B01J 29/40** (2013.01 - US); **B01J 29/50** (2013.01 - US); **B01J 29/70** (2013.01 - US); **B01J 29/7003** (2013.01 - US); **B01J 29/7011** (2013.01 - US); **B01J 29/7015** (2013.01 - US); **B01J 29/7019** (2013.01 - US); **B01J 37/10** (2013.01 - US); **C01B 39/02** (2013.01 - EA EP KR); **C01B 39/14** (2013.01 - EA EP KR US); **C01B 39/16** (2013.01 - US); **C01B 39/20** (2013.01 - EA EP KR US); **C01B 39/26** (2013.01 - EA EP KR US); **C01B 39/30** (2013.01 - EA EP KR US); **C01B 39/34** (2013.01 - EA EP KR US); **C01B 39/36** (2013.01 - EA EP KR); **C01B 39/38** (2013.01 - US); **C01B 39/46** (2013.01 - EA EP KR US); C01P 2004/51 (2013.01 - US); C01P 2004/53 (2013.01 - US)

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 2018167416 A1 20180920; CN 110431107 A 20191108; CN 110431107 B 20221115; EA 039625 B1 20220217; EA 201992197 A1 20200207; EP 3596011 A1 20200122; FR 3063994 A1 20180921; FR 3063994 B1 20220121; JP 2020510603 A 20200409; JP 2022081537 A 20220531; JP 7082985 B2 20220609; KR 102304762 B1 20210923; KR 20190125379 A 20191106; MX 2019010518 A 20191017; TW 201836980 A 20181016; TW I672269 B 20190921; US 11124421 B2 20210921; US 2021139337 A1 20210513; ZA 201905757 B 20210127

DOCDB simple family (application)
FR 2018050570 W 20180312; CN 201880018811 A 20180312; EA 201992197 A 20180312; EP 18713329 A 20180312; FR 1752198 A 20170317; JP 2019550845 A 20180312; JP 2022028397 A 20220225; KR 20197028495 A 20180312; MX 2019010518 A 20180312; TW 107109169 A 20180316; US 201816493593 A 20180312; ZA 201905757 A 20190830