

Title (en)  
COPPER-PROMOTED ZEOLITIC MATERIALS OF THE CHA FRAMEWORK STRUCTURE FROM ORGANOTEMPLATE-FREE SYNTHESIS AND USE THEREOF IN THE SELECTIVE CATALYTIC REDUCTION OF NO<sub>x</sub>

Title (de)  
KUPFERAKTIVIERTE ZEOLITHMATERIALIEN DER CHA-RAHMENSTRUKTUR AUS EINER ORGANOTEMPLATFREIEN SYNTHESE UND VERWENDUNG DAVON ZUR SELEKTIVEN KATALYTISCHEN REDUKTION VON NO<sub>x</sub>

Title (fr)  
MATÉRIAUX ZÉOLITIQUES ACTIVÉS PAR LE CUIVRE DE LA STRUCTURE DE CADRE CHA ISSUS D'UNE SYNTHÈSE SANS MODÈLE ORGANIQUE, ET LEUR UTILISATION EN RÉDUCTION CATALYTIQUE SÉLECTIVE DE NO<sub>x</sub>

Publication  
**EP 3481549 A4 20200610 (EN)**

Application  
**EP 17809675 A 20170602**

Priority  
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• CN 2017087035 W 20170602

Abstract (en)  
[origin: WO2017211236A1] A synthetic copper and/or iron containing zeolitic material having a CHA framework structure, wherein the CHA framework structure comprises SiO<sub>2</sub>, X<sub>2</sub>O<sub>3</sub>, and optionally comprises Z<sub>2</sub>O<sub>5</sub>, wherein X is a trivalent element, and Z is a pentavalent element, wherein the zeolitic material contains from 3.8 to 12 wt.% of Cu and/or Fe calculated as the respective element and based on 100 wt.% of SiO<sub>2</sub> contained in the zeolitic material having a CHA framework structure, and wherein the <sup>29</sup>Si MAS NMR of the zeolitic material comprises: a first peak (P1) in the range of from -96 to -98.8 ppm; a second peak (P2) in the range of from -102 to -104.5 ppm; and a third peak (P3) in the range of from -107.5 to -111 ppm; wherein the integration of the first, second, and third peaks in the <sup>29</sup>Si MAS NMR of the zeolitic material offers a ratio of the integration values P1:P2:P3 ranging from (0.35-0.7):1: (0.1-1.6), as well as to a process for its preparation, and to the use thereof, in particular in a method for the selective catalytic reduction of NO<sub>x</sub>.

IPC 8 full level  
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Citation (search report)  
• [X] US 2013142727 A1 20130606 - LI HONG-XIN [US], et al  
• [I] US 2013202524 A1 20130808 - MAURER STEFAN [DE], et al  
• See references of WO 2017211236A1

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