

Title (en)

METHOD FOR PRODUCTION OF HIGH PURITY, HIGH CRYSTALLINITY BN STRUCTURES AT MODERATE TEMPERATURES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HOCHREINEN HOCHKRISTALLINEN BN-STRUKTUREN BEI MÄSSIGEN TEMPERATUREN

Title (fr)

PROCÉDÉ DE PRODUCTION DE STRUCTURES DE BN DE HAUTE CRISTALLINITÉ ET DE HAUTE PURETÉ À DES TEMPÉRATURES MODÉRÉES

Publication

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Application

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- TR 2017050679 W 20171219

Abstract (en)

[origin: WO2018236312A2] The present invention relates to a method for preparation of a catalyst for use in production of elongate microstructures and/or nanostructures substantially comprising Boron nitride (BN), the method includes reacting a first substance selected from oxides or nitrates of Na, K or Li; with a second substance selected from Fe₂O₃, Al₂O₃, SiO₂, Fe(NO₃)₃, Al(NO₃)₃, and SiH₄(NO₃)₄; such that if the first substance is an oxide, the second substance is selected from the list consisting of Fe₂O₃, Al₂O₃ or SiO₂; and if the first substance is a nitrate, the second substance is selected from Fe(NO₃)₃, Al(NO₃)₃, and SiH₄(NO₃)₄; wherein the molar amount of the second substance is at least twice of the molar amount of the first substance. The present invention further proposes a method for production of elongate microstructures and/or nanostructures substantially comprising BN, and an entity which is obtainable through such method.

IPC 8 full level

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