

Title (en)  
PURIFIED POWDER OF NANOMETRIC PARTICLES

Title (de)  
GEREINIGTES NANOMETRISCHES TEILCHENPULVER

Title (fr)  
POUDRE DE PARTICULES NANOMETRIQUES PURIFIEE

Publication  
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Application  
**EP 08856976 A 20081128**

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Abstract (en)

[origin: WO2009071862A2] The invention relates to a method for synthesising a powder, said method comprising the following successive steps: A) the preparation of a mother liquor comprising i. an oxide base constituent or a precursor of said base constituent and an additional constituent of formula MC, the additional constituent consisting of an agent M selected from the group of oxoanions, anions of the elements of column 17 of the periodic table of elements, hydroxide OH<sup>-</sup>, and the mixtures thereof, and a complement C which is inorganic when the agent is hydroxide OH<sup>-</sup>; or ii. an oxide base constituent or a precursor of the base constituent comprising an agent M selected from the group of oxoanions, anions of the elements of column 17 of the periodic table of elements, and the mixtures thereof; B) the hydrothermal preparation of a sol, from said mother liquor, containing coarse particles of a maximum size higher than 10 nm and lower than 250 nm, or even lower than 100 nm; and C) the sol is washed in such a way as to obtain, following a drying stage, a powder comprising more than 99.3 % of the base constituent, in weight per cent in relation to the dry material.

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