

Title (en)  
METHOD FOR MANUFACTURING CRYSTALS OF ALUMINATE OF AT LEAST ONE METAL AND/OR ONE METALLOID AND/OR ONE LANTHANIDE, AND APPLICATIONS OF SAME

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON KRISTALLEN VON ALUMINAT AUS MINDESTENS EINEM METALL UND/ODER EINEM METALLOID UND/ODER EINEM LANTHANID SOWIE ANWENDUNGEN DAVON

Title (fr)  
PROCÉDÉ DE FABRICATION DE CRISTAUX D'ALUMINATE D'AU MOINS UN MÉTAL ET/OU D'UN MÉTALLOÏDE ET/OU D'UN LANTHANIDE, AINSI QUE LEURS APPLICATIONS

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Application  
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Abstract (en)  
[origin: CA3038371A1] To this end, the present invention concerns a method for manufacturing crystals of aluminates of one or more element(s) other than aluminium (Al), referred to as "A", chosen separately from a metal, a metalloid or a lanthanide, said method comprising at least the following steps: placing starting reagents, comprising at least one aluminium element source and a source of said element(s) A that has a degree of oxidation of between 1 and 6, in suspension in a liquid medium, so as to form a suspension referred to as the "starting suspension", - milling said starting suspension at an ambient temperature of less than or equal to 50 °C, in a three-dimensional liquid medium ball mill for a holding time of less than or equal to 5 minutes; recovering, at the outlet of said three-dimensional ball mill, a suspension referred to as the "end suspension" comprising said starting reagents in activated form or crystals of aluminate of said element(s) A generally in hydrated form; if required, calcination of said end suspension when it comprises said starting reagents in activated form, so as to obtain generally non-hydrated crystals of aluminate of said element(s) A.

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