

Title (en)
METHOD FOR MANUFACTURING DENSE LAYERS THAT CAN BE USED AS ELECTRODES AND/OR ELECTROLYTES FOR LITHIUM ION BATTERIES, AND LITHIUM ION MICROBATTERIES OBTAINED IN THIS WAY

Title (de)
VERFAHREN ZUR HERSTELLUNG DICHTER SCHICHTEN ALS ELEKTRODEN UND/ODER ELEKTROLYTE FÜR LITHIUM-IONEN-BATTERIEN UND AUF DIESE WEISE ERHALTENE LITHIUM-IONEN-MIKROBATTERIEN

Title (fr)
PROCEDE DE FABRICATION DE COUCHES DENSES, UTILISABLES COMME ELECTRODES ET/OU ELECTROLYTES POUR BATTERIES A IONS DE LITHIUM, ET MICROBATTERIES A IONS DE LITHIUM AINSI OBTENUES

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Application
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Priority
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Abstract (en)
[origin: CA3173248A1] Disclosed is a method for manufacturing a dense layer, comprising the following steps: providing a substrate and a suspension of non-agglomerated nanoparticles of a material P; depositing a layer on the substrate from the suspension; drying the layer obtained in this way; densifying the dried layer by mechanical compression and/or heat treatment; the method being characterised in that the suspension of non-agglomerated nanoparticles of material P comprises nanoparticles of material P having a size distribution, the size being characterised by its D50 value, such that: - the distribution comprises nanoparticles of material P of a first size D1 of between 20 nm and 50 nm, and nanoparticles of material P of a second size D2 characterised by a D50 value at least five times less than that of D1; or - the distribution has an average size of nanoparticles of material P of less than 50 nm, and a standard deviation to average size ratio greater than 0.6.

IPC 8 full level
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CPC (source: EP IL KR US)
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