

Title (en)

METHOD FOR SYNTHESISING CORE-SHELL SILICON-GERMANIUM NANOPARTICLES BY LASER PYROLYSIS, METHOD FOR PRODUCING AN ELECTRODE FOR A LITHIUM BATTERY AND ASSOCIATED ELECTRODE

Title (de)

VERFAHREN ZUR SYNTHESE VON SILICIUM-GERMANIUM-KERN-HÜLLE-NANOPARTIKELN DURCH LASERPYROLYSE, VERFAHREN ZUR HERSTELLUNG EINER ELEKTRODE FÜR EINE LITHIUMBATTERIE UND ZUGEHÖRIGE ELEKTRODE

Title (fr)

PROCEDE DE SYNTHESE DE NANOParticules SILICIUM-GERMANIUM DE TYPE C?UR-COQUILLE PAR PYROLYSE LASER, PROCEDE DE FABRICATION D'UNE ELECTRODE POUR BATTERIE AU LITHIUM ET ELECTRODE ASSOCIEE

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Application

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Abstract (en)

[origin: WO2019243637A1] The invention concerns a method for synthesising core-shell nanoparticles by laser pyrolysis, said method comprising the following steps: a) simultaneously conveying a gaseous mixture (M) comprising a silicon precursor and a germanium precursor into a reaction zone (5) of a first chamber (1) of a reactor (100), b) emitting a first laser beam at said reaction zone (5) in order to cause a laser pyrolysis of said mixture, said steps making it possible to obtain nanoparticles having a core made of a silicon and germanium based alloy and a silicon shell.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019243637A1

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