

Title (en)
ELECTRODE, DEVICE INCLUDING SAME AND MANUFACTURING METHOD THEREOF

Title (de)
ELEKTRODE, VORRICHTUNG DAMIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ÉLECTRODE, DISPOSITIF LA COMPRENANT ET SON PROCÉDÉ DE FABRICATION

Publication
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Application
EP 13725820 A 20130422

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Abstract (en)
[origin: WO2013160816A1] The invention relates to an electrode, to the method for manufacturing same and to a device for storing and delivering electric power including same. The electrode of the invention includes a mounting, made of a conductor or semiconductor material, said mounting including, on at least one of the surfaces thereof, at least one nanostructure made of a semiconductor material, characterised by also including a protective layer made of a material selected among a dielectric material having an intrinsic capacity of $1.5 \cdot 10^{-6}$ to $10 \cdot 10^{-6}$ F/cm² and a metal, said layer having a thickness that is less than the height of said nanostructure, and covering the at least one nanostructure. The invention is useful in the field of electrochemical storage and, in particular, in the field of ultracapacitors.

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