

Title (en)
ELECTRODE MATERIAL HAVING HIGH CAPACITANCE

Title (de)
ELEKTRODENMATERIAL MIT HOHER KAPAZITÄT

Title (fr)
MATÉRIAU D'ÉLECTRODE DOTÉ D'UNE CAPACITÉ ÉLEVÉE

Publication
EP 2678891 A1 20140101 (DE)

Application
EP 12702788 A 20120127

Priority
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• EP 2012051300 W 20120127

Abstract (en)
[origin: WO2012113606A1] The invention relates to a silicon-carbon composite comprising at least one portion of hard carbon and one portion of silicon powder, said composite being obtained by virtue of the fact that under a noble gas atmosphere a) the hard carbon portion is treated at high energy at least once in a mechanofusion mixer, and b) afterwards the portion of silicon powder is added thereto and the portions are mixed together, or during step a) the portion of silicon powder is added thereto and the mechanofusion treatment is continued, and said composite being characterized in that the composite has an average particle size of less than or equal to 12 µm, a portion of hard carbon of 5 to 50% by weight and a portion of silicon powder of 5 to 50% by weight.

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C01B 21/068 (2013.01 - EP US); **H01M 4/04** (2013.01 - US); **H01M 4/133** (2013.01 - CN EP KR US); **H01M 4/134** (2013.01 - CN EP KR US); **H01M 4/1393** (2013.01 - CN EP KR US); **H01M 4/1395** (2013.01 - CN EP KR US); **H01M 4/364** (2013.01 - CN EP US); **H01M 10/0525** (2013.01 - CN EP KR US); **Y02E 60/10** (2013.01 - EP); **Y10T 29/49115** (2015.01 - EP US)

Citation (search report)
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