

Title (en)
NEGATIVE ACTIVE MATERIAL FOR SECONDARY BATTERY, AND ELECTRODE AND SECONDARY BATTERY INCLUDING THE SAME

Title (de)
NEGATIV-AKTIVMATERIAL FÜR EINE SEKUNDÄRBATTERIE UND ELEKTRODE UND SEKUNDÄRBATTERIE DAMIT

Title (fr)
MATÉRIAU ACTIF NÉGATIF DESTINÉ À UNE BATTERIE RECHARGEABLE, ET ÉLECTRODE ET BATTERIE RECHARGEABLE COMPRENANT CE MATÉRIAU

Publication
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Application
EP 08873866 A 20081219

Priority
• KR 2008007549 W 20081219
• KR 20080033166 A 20080410

Abstract (en)
[origin: WO2009125909A1] A negative active material for a secondary battery according to the present invention includes a core carbon material and a carbide layer formed on at least a portion of an edge of the core carbon material, and has a difference (an amount of compression density change) of 0.5g/cc or more between a first compression density measured when a pressure of 63.704 MPa is applied for 2 seconds and a second compression density measured when a pressure of 6.3704 MPa is applied for 2 seconds. A secondary battery manufactured using the negative active material according to the present invention can prevent deterioration of characteristics caused by destruction of the carbide layer during a compression process in the manufacture of an electrode of a secondary battery. As a result, a cycle efficiency and a discharging capacity retention rate at a long cycle can be improved.

IPC 8 full level
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CPC (source: EP KR)
H01M 4/13 (2013.01 - KR); **H01M 4/1393** (2013.01 - EP); **H01M 4/583** (2013.01 - KR); **H01M 4/587** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)
• [A] JP 2004031038 A 20040129 - NIPPON CARBON CO LTD
• [A] KR 100817977 B1 20080331 - LS CABLE LTD [KR] & WO 2008136561 A1 20081113 - LS MTRON LTD [KR], et al
• See references of WO 2009125909A1

Designated contracting state (EPC)
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