

Title (en)

NA-DOPED AND NB-, W- AND/OR MO-DOPED HE-NCM

Title (de)

NA-DOTIERTES UND NB-, W- UND/ODER MO-DOTIERTES HE-NCM

Title (fr)

NCM À HAUTE ÉNERGIE DOPÉ NA ET DOPÉ NB, W ET/OU MO

Publication

EP 3308418 A1 20180418 (DE)

Application

EP 16724429 A 20160524

Priority

- DE 102015210895 A 20150615
- EP 2016061639 W 20160524

Abstract (en)

[origin: WO2016202536A1] An active material for an electrochemical energy storage means, especially for a lithium cell. In order to increase the lifetime of the electrochemical energy storage means, the active material is based on the general chemical formula: $x(\text{LiMO}_2) : 1-x(\text{Li}_2\text{-yNayMn}1\text{-zM'zO}_3)$, where M is nickel and/or cobalt and/or manganese and M' is niobium and/or tungsten and/or molybdenum and where $0 < x < 1$, $0 < y < 0,5$ and $0 < z < 1$. The invention further relates to an electrode material and to an electrode comprising this active material, to a process for production thereof and to an electrochemical energy storage means equipped therewith.

IPC 8 full level

H01M 4/131 (2010.01); **H01M 4/02** (2006.01); **H01M 4/1391** (2010.01); **H01M 4/36** (2006.01); **H01M 4/485** (2010.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 10/052** (2010.01)

CPC (source: CN EP KR US)

H01M 4/131 (2013.01 - CN EP KR US); **H01M 4/1391** (2013.01 - CN EP KR US); **H01M 4/362** (2013.01 - CN EP US); **H01M 4/366** (2013.01 - KR US); **H01M 4/485** (2013.01 - CN EP KR US); **H01M 4/505** (2013.01 - CN EP KR US); **H01M 4/525** (2013.01 - CN EP KR US); **H01M 10/052** (2013.01 - CN EP KR US); **H01M 4/364** (2013.01 - CN EP US); **H01M 2004/028** (2013.01 - CN EP US); **H01M 2220/20** (2013.01 - CN EP US); **Y02E 60/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2016202536A1

Designated contracting state (EPC)

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DE 102015210895 A1 20161215; CN 107710461 A 20180216; EP 3308418 A1 20180418; JP 2018524769 A 20180830; JP 6576476 B2 20190918; KR 20180017043 A 20180220; US 2018138497 A1 20180517; WO 2016202536 A1 20161222

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