

Title (en)
HIGH VOLTAGE LITHIUM ION BATTERY

Title (de)
LITHIUM-IONEN-BATTERIE MIT HOHER SPANNUNG

Title (fr)
BATTERIE LITHIUM-ION À TENSION ÉLEVÉE

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Application
EP 12714968 A 20120405

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Abstract (en)
[origin: WO2012139742A1] The invention relates to a lithium ion battery comprising: (i) a positive electrode comprising at least a lithium transition metal phosphate having an olivine structure, wherein the transition metal selected is made of manganese, cobalt, nickel, or a mixture of two or three of said elements; (ii) a negative electrode; (iii) a separator that separates the positive and the negative electrode from one another and is permeable to lithium ions; wherein the separator comprises a mat made of non-woven, non-electrically conductive polymer fibres, which is coated with an ion-conducting inorganic material on one side or both sides; (iv) a non-aqueous electrolyte.

IPC 8 full level
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CPC (source: CN EP KR US)
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Citation (search report)
See references of WO 2012139742A1

Citation (examination)
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• SHIN Y J ET AL: "Li(Mn0.4Fe0.6)PO4 cathode active material: Synthesis and electrochemical performance evaluation", JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, PERGAMON PRESS, LONDON, GB, vol. 69, no. 5-6, 1 May 2008 (2008-05-01), pages 1253 - 1256, XP022667420, ISSN: 0022-3697, [retrieved on 20071211], DOI: 10.1016/J.JPCS.2007.10.073

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