

Title (en)

LITHIUM MANGANESE IRON PHOSPHATE-BASED ELECTRODE FOR AN ELECTROCHEMICAL LITHIUM ION ELEMENT

Title (de)

ELEKTRODE AUF LITHIUMMANGANEISENPHOSPHATBASIS FÜR EIN ELEKTROCHEMISCHES LITHIUM-IONEN-ELEMENT

Title (fr)

ÉLECTRODE À BASE DE PHOSPHATE LITHIÉ DE MANGANÈSE ET DE FER POUR ÉLÉMENT ÉLECTROCHIMIQUE LITHIUM-ION

Publication

EP 4233103 A1 20230830 (FR)

Application

EP 21794595 A 20211026

Priority

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- EP 2021079736 W 20211026

Abstract (en)

[origin: WO2022090267A1] The present invention relates to an electrode comprising a current collector formed by a metal strip which is coated on at least one of the faces thereof with a composition of electrochemically active materials, the composition comprising at least one lithium manganese iron phosphate having the following formula: $\text{Li}_x\text{Mn}_{1-y-z}\text{Fe}_y\text{M}_z\text{PO}_4$, where M is selected from the group consisting of B, Mg, Al, Si, Ca, Ti, V, Cr, Co, Ni, Cu, Zn, Y, Zr, Nb and Mo, alone or in a mixture, with $0.8 \leq x \leq 1.2$; $0.5 \leq 1-y-z < 1$; $0.05 \leq y \leq 0.5$ and $0 \leq z \leq 0.2$; the current collector having undergone chemical pickling of at least one of the faces thereof.

IPC 8 full level

H01M 4/04 (2006.01); **H01M 4/02** (2006.01); **H01M 4/136** (2010.01); **H01M 4/1397** (2010.01); **H01M 4/36** (2006.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 4/66** (2006.01); **H01M 4/80** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01)

CPC (source: EP US)

H01M 4/0492 (2013.01 - EP); **H01M 4/131** (2013.01 - US); **H01M 4/136** (2013.01 - EP); **H01M 4/1397** (2013.01 - EP); **H01M 4/364** (2013.01 - EP); **H01M 4/505** (2013.01 - EP); **H01M 4/525** (2013.01 - EP); **H01M 4/5825** (2013.01 - EP US); **H01M 4/661** (2013.01 - EP US); **H01M 4/662** (2013.01 - EP); **H01M 4/80** (2013.01 - EP); **H01M 10/0525** (2013.01 - US); **H01M 10/052** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP); **H01M 2004/021** (2013.01 - US); **H01M 2004/028** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2022090267A1

Designated contracting state (EPC)

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