

Title (en)
ELECTRODE MATERIALS COMPRISING A LAMELLAR OXIDE OF SODIUM AND OF METAL, ELECTRODES COMPRISING SAME AND USE OF SAME IN ELECTROCHEMISTRY

Title (de)
ELEKTRODENMATERIALIEN MIT EINEM LAMELLENFÖRMIGEN OXID VON NATRIUM UND METALL, ELEKTRODEN DAMIT UND VERWENDUNG DAVON IN DER ELEKTROCHEMIE

Title (fr)
MATÉRIAUX D'ÉLECTRODE COMPRENANT UN OXYDE LAMELLAIRE DE SODIUM ET DE MÉTAL, ÉLECTRODES LES COMPRENANT ET LEUR UTILISATION EN ÉLECTROCHIMIE

Publication
EP 3861579 A4 20220706 (FR)

Application
EP 19868747 A 20191002

Priority
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Abstract (en)
[origin: WO2020069618A1] The present technology relates to electrode materials comprising an electrochemically active material, wherein the electrochemically active material comprises a lamellar oxide of sodium and of metal of P2 type or of O3 type. The electrochemically active material has the formula Na_xMO_2 , where $0.5 \leq x \leq 1.0$ and M is chosen from Co, Mn, Fe, Ni, Ti, Cr, V, Cu, Sb and combinations thereof. Electrodes, electrochemical cells and batteries comprising the electrode materials are also described.

IPC 8 full level
C01G 45/12 (2006.01); **C01G 51/00** (2006.01); **C01G 53/00** (2006.01); **H01M 4/131** (2010.01); **H01M 4/134** (2010.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/054** (2010.01); **H01M 10/056** (2010.01)

CPC (source: EP KR US)
C01G 45/1228 (2013.01 - EP US); **C01G 51/42** (2013.01 - EP US); **C01G 51/50** (2013.01 - EP US); **C01G 53/50** (2013.01 - EP US); **H01M 4/131** (2013.01 - KR); **H01M 4/366** (2013.01 - US); **H01M 4/505** (2013.01 - EP KR US); **H01M 4/525** (2013.01 - EP KR US); **H01M 4/623** (2013.01 - KR US); **H01M 4/625** (2013.01 - KR US); **H01M 10/052** (2013.01 - EP KR); **H01M 10/0525** (2013.01 - US); **H01M 10/054** (2013.01 - EP KR US); **C01G 45/1228** (2013.01 - KR); **C01G 51/42** (2013.01 - KR); **C01G 51/50** (2013.01 - KR); **C01G 53/50** (2013.01 - KR); **C01P 2002/72** (2013.01 - EP US); **C01P 2006/40** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
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• [X1] EP 3048659 A1 20160727 - INST OF PHYSICS THE CHINESE ACADEMY OF SCIENCES [CN]
• [X1] JP 2014160653 A 20140904 - UNIV OF SCIENCE TOKYO, et al
• [X1] CN 105185978 A 20151223 - CHINESE ACAD PHYSICS INST
• See references of WO 2020069618A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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