

Title (en)
LITHIATED METAL OXIDES

Title (de)
LITHIUM ENTHALTENDE METALLOXIDE

Title (fr)
OXYDES DE METAL AU LITHIUM

Publication
EP 0968135 A1 20000105 (EN)

Application
EP 98914238 A 19980309

Priority
• US 9804724 W 19980309
• US 4056497 P 19970314

Abstract (en)
[origin: WO9841476A1] A lithiated metal oxide of the general formula: $\text{Li}_a\text{M}_b\text{M}'_b(1-x)\text{Ob}_z$, where a is 1 or 2, b is 1 or 2, $0 \leq x \leq 1$, $0 < y \leq 1$, $1.8 \leq z \leq 2.2$ and M and M' are multi-valent metals, a method of synthesizing such lithiated metal oxides, and a rechargeable lithium-based battery having at least one electrode in which such a lithiated metal oxide is used as an active material. The process comprises combining at least one lithium carboxylate or lithium alkoxide salt, at least one metal carboxylate salt and an alcohol solvent; reacting the combination in the presence of heat; drying the reaction mixture to remove volatile byproducts and solvent; and heat treating.

IPC 1-7
C01G 45/00; **C01G 51/00**; **C01G 53/00**; **H01M 4/48**

IPC 8 full level
C01G 45/00 (2006.01); **C01G 51/00** (2006.01); **C01G 53/00** (2006.01); **H01M 4/02** (2006.01); **H01M 4/131** (2010.01); **H01M 4/48** (2006.01); **H01M 4/50** (2006.01); **H01M 4/505** (2010.01); **H01M 4/52** (2006.01); **H01M 4/58** (2006.01); **H01M 10/0525** (2010.01); **H01M 10/36** (2006.01); **H01M 4/525** (2010.01); **H01M 10/40** (2006.01)

CPC (source: EP)
B82Y 30/00 (2013.01); **C01G 45/1221** (2013.01); **C01G 45/1242** (2013.01); **C01G 51/54** (2013.01); **C01G 53/54** (2013.01); **H01M 4/131** (2013.01); **H01M 4/505** (2013.01); **H01M 10/0525** (2013.01); **C01P 2002/32** (2013.01); **C01P 2002/60** (2013.01); **C01P 2002/72** (2013.01); **C01P 2002/77** (2013.01); **C01P 2004/03** (2013.01); **C01P 2004/64** (2013.01); **C01P 2006/12** (2013.01); **C01P 2006/40** (2013.01); **H01M 4/525** (2013.01); **Y02E 60/10** (2013.01)

Citation (search report)
See references of WO 9841476A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9841476 A1 19980924; AU 6864098 A 19981012; CA 2283942 A1 19980924; CN 1258264 A 20000628; EP 0968135 A1 20000105; JP 2001526620 A 20011218

DOCDB simple family (application)
US 9804724 W 19980309; AU 6864098 A 19980309; CA 2283942 A 19980309; CN 98805110 A 19980309; EP 98914238 A 19980309; JP 54059598 A 19980309