

Title (en)

MIXED TRANSITION METAL OXIDES FOR LITHIUM-ION BATTERIES

Title (de)

ÜBERGANGSMETALL-MISCHOXIDE FÜR LITHIUMIONEN-BATTERIEN

Title (fr)

OXYDE MIXTE DE MÉTAUX DE TRANSITION POUR BATTERIES À IONS LITHIUM

Publication

EP 3215462 A1 20170913 (DE)

Application

EP 15790883 A 20151030

Priority

- US 201462076545 P 20141107
- EP 2015075222 W 20151030

Abstract (en)

[origin: WO2016071219A1] Described is a method for producing mixed oxide in the form of particles, containing lithium cations and cations of at least two transition metals selected from among the group consisting of nickel, cobalt, manganese, titanium, vanadium, chromium and iron. Also described are mixed oxides produced according to said method.

IPC 8 full level

C01G 53/00 (2006.01); **H01M 4/00** (2006.01)

CPC (source: EP KR US)

C01G 53/006 (2013.01 - EP US); **C01G 53/44** (2013.01 - EP KR US); **H01M 4/485** (2013.01 - EP KR US); **H01M 4/505** (2013.01 - EP KR US); **H01M 4/525** (2013.01 - EP KR US); **H01M 10/0525** (2013.01 - KR); **C01P 2004/03** (2013.01 - EP US); **C01P 2004/32** (2013.01 - KR); **C01P 2004/50** (2013.01 - KR); **C01P 2004/61** (2013.01 - EP US); **C01P 2004/62** (2013.01 - KR); **C01P 2006/40** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2016071219A1

Citation (examination)

- WO 2014180743 A1 20141113 - BASF SE [DE]
- KR 100752703 B1 20070829 - IUCF HYU [KR]
- WO 2013147537 A1 20131003 - IUCF HYU [KR]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016071219 A1 20160512; CN 107635925 A 20180126; CN 107635925 B 20200612; EP 3215462 A1 20170913; JP 2017538649 A 20171228; KR 20170083573 A 20170718; US 10526212 B2 20200107; US 2017355614 A1 20171214

DOCDB simple family (application)

EP 2015075222 W 20151030; CN 201580060415 A 20151030; EP 15790883 A 20151030; JP 2017524361 A 20151030; KR 20177015228 A 20151030; US 201515524898 A 20151030