

Title (en)

ELECTRODES AND PRODUCTION AND USE THEREOF

Title (de)

ELEKTRODEN, IHRE HERSTELLUNG UND VERWENDUNG

Title (fr)

ÉLECTRODES, FABRICATION ET UTILISATION DE CES ÉLECTRODES

Publication

EP 2586091 A1 20130501 (DE)

Application

EP 11797704 A 20110617

Priority

- EP 10166856 A 20100622
- IB 2011052645 W 20110617
- EP 11797704 A 20110617

Abstract (en)

[origin: WO2011161598A1] Electrodes, comprising (A) a solid medium through which gas can diffuse, (B) at least one electrically conductive, carbonaceous material, (C) at least one organic polymer, (D) at least one compound of the general formula (I) $M_1 a M_2 b M_3 d He O f$ (I) in particulate form, where the variables are each defined as follows: M1 is selected from Mo, W, V, Nb and Sb, M2 is selected from Fe, Ag, Cu, Ni, Mn and lanthanoids, M3 is selected from B, C, N, Al, Si, P and Sn, M4 is selected from Li, Na, K, Rb, Cs, NH₄, Mg, Ca and Sr, a is in the range from 1 to 3, b is in the range from 0.1 to 10, c is in the range from zero to one, d is in the range from zero to one, e is in the range from zero to 5, f is in the range from 1 to 28, and wherein compound of the general formula (I) has a BET surface area in the range from 1 to 300 m²/g.

IPC 8 full level

H01M 12/04 (2006.01)

CPC (source: EP KR US)

H01M 4/8673 (2013.01 - EP); **H01M 4/9016** (2013.01 - EP); **H01M 8/0234** (2013.01 - EP); **H01M 8/0243** (2013.01 - EP); **H01M 8/1007** (2016.02 - EP); **H01M 12/04** (2013.01 - KR); **H01M 12/06** (2013.01 - KR); **H01M 12/08** (2013.01 - EP US); **H01M 12/085** (2013.01 - EP); **Y02E 60/10** (2013.01 - US); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)

See references of WO 2011161598A1

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)

WO 2011161598 A1 20111229; CN 102948004 A 20130227; EP 2586091 A1 20130501; JP 2013535081 A 20130909; KR 20130036293 A 20130411; TW 201228081 A 20120701

DOCDB simple family (application)

IB 2011052645 W 20110617; CN 201180028926 A 20110617; EP 11797704 A 20110617; JP 2013516008 A 20110617; KR 20137001540 A 20110617; TW 100121692 A 20110621