

Title (en)

RECHARGEABLE BATTERY CELL THAT IS OPERATED AT NORMAL TEMPERATURES

Title (de)

BEI NORMALTEMPERATUR BETREIBBARE, WIEDERAUFLADBARE BATTERIEZELLE

Title (fr)

ELEMENT DE BATTERIE POUVANT FONCTIONNER ET ETRE RECHARGE A TEMPERATURE AMBIANTE

Publication

EP 1415359 A2 20040506 (DE)

Application

EP 02745133 A 20020610

Priority

- DE 0202112 W 20020610
- DE 10128970 A 20010615

Abstract (en)

[origin: DE10128970A1] Rechargeable battery cell comprises a negative electrode; an electrolyte system; and a positive electrode. One of the electrodes has an electrically conducting deviating element with a surface layer made from a protective metal. The protective metal is selected from chromium, rhodium, tungsten, rhenium, tantalum, platinum, iridium, osmium or technetium in pure form as a component of an alloy or compound or carbide, nitride or phosphide of titanium, nickel, cobalt, molybdenum, iron, vanadium, zirconium or manganese. An Independent claim is also included for a process for the production of the battery cell. Preferred Features: The surface layer contains an oxide of chromium. The deviating element contains a core material made from copper, nickel, aluminum, carbon or high grade steel. At least one component of the surface layer is applied in the gas phase and one is applied galvanically. The electrolyte is based on sulfur dioxide (SO₂).

IPC 1-7

H01M 4/66; **H01M 10/36**

IPC 8 full level

H01M 4/38 (2006.01); **H01M 4/58** (2006.01); **H01M 4/62** (2006.01); **H01M 4/66** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0563** (2010.01); **H01M 10/36** (2010.01); **H01M 4/02** (2006.01); **H01M 4/48** (2006.01); **H01M 4/485** (2010.01); **H01M 4/80** (2006.01)

CPC (source: EP US)

H01M 4/66 (2013.01 - EP US); **H01M 4/667** (2013.01 - EP US); **H01M 10/052** (2013.01 - EP US); **H01M 10/0563** (2013.01 - EP US); **H01M 4/485** (2013.01 - EP US); **H01M 4/661** (2013.01 - EP US); **H01M 4/663** (2013.01 - EP US); **H01M 4/80** (2013.01 - EP US); **H01M 2004/028** (2013.01 - EP US); **H01M 2300/002** (2013.01 - EP US); **H01M 2300/0025** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP); **Y10T 29/10** (2015.01 - EP US)

Citation (search report)

See references of WO 02103827A2

Designated contracting state (EPC)

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DOCDB simple family (application)

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