

Title (en)

MOLTEN SALT ELECTROCHEMICAL FLOW CELL

Title (de)

ELEKTROCHEMISCHE DURCHFLUSSZELLE MIT SALZSCHMELZE

Title (fr)

CELLULE ÉLECTROCHIMIQUE À CIRCULATION À SEL FONDU

Publication

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Application

EP 15816154 A 20151218

Priority

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Abstract (en)

[origin: WO2016102373A1] A rechargeable molten salt electrochemical flow cell according to the present invention comprises a cathode compartment containing a cathode material comprising a liquid metal nitrite salt and nitrogen dioxide, an anode compartment containing an anode material comprising an liquid elemental metal, and a solid membrane separating the cathode and anode compartment and being in contact on one side with the cathode material and on the other side the anode material, said membrane being capable of selectively allowing the exchange of metal ions between the cathode and anode material, whereby the underlying redox reaction is according to the equation: $\text{MeNO}_2 (\text{liq.}) \leftrightarrow \text{Me} (\text{liq.}) + \text{NO}_2 (\text{gas. or liq.})$.

IPC 8 full level

H01M 4/38 (2006.01); **H01M 4/58** (2010.01); **H01M 10/39** (2006.01)

CPC (source: EP)

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Citation (search report)

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