

Title (en)
Process for the electrochemical production of lithium

Title (de)
Verfahren zur elektrochemischen Herstellung von Lithium

Title (fr)
Procédé de production électrochimique de lithium

Publication
EP 1041177 B1 20040616 (DE)

Application
EP 00106014 A 20000328

Priority
DE 19914221 A 19990329

Abstract (en)
[origin: EP1041177A1] Lithium production from aqueous solution, by lithium amalgam formation and use as a moving anode in an electrolysis cell, is new. Metallic lithium is produced from an aqueous lithium salt solution by forming a lithium amalgam from the solution and using amalgam as a moving anode in an electrolysis cell containing a lithium ion conductive solid electrolyte and a molten lithium cathode. Preferred Features: The lithium amalgam anode is moved by stirring and/or pumping under atmospheric or slightly elevated pressure. The amalgam is produced by chlor-alkali electrolysis.

IPC 1-7
C25C 3/02; **C25C 1/02**

IPC 8 full level
C25C 1/02 (2006.01); **C25C 1/24** (2006.01); **C25C 3/02** (2006.01)

CPC (source: EP US)
C25C 1/02 (2013.01 - EP US); **C25C 3/02** (2013.01 - EP US)

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EP 1041177 A1 20001004; **EP 1041177 B1 20040616**; AT E269432 T1 20040715; CN 1198970 C 20050427; CN 1269430 A 20001011; DE 19914221 A1 20001005; DE 50006784 D1 20040722; ES 2220280 T3 20041216; JP 2000290791 A 20001017; RU 2250274 C2 20050420; US 6287448 B1 20010911

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