

Title (en)

ELECTROCHEMICAL PRODUCTION OF RARE EARTH ALLOYS AND METALS COMPRISING A LIQUID ANODE

Title (de)

ELEKTROCHEMISCHE HERSTELLUNG VON SELTENERDLEGIERUNGEN UND METALLEN MIT EINER FLÜSSIGEN ANODE

Title (fr)

PRODUCTION ÉLECTROCHIMIQUE DE MÉTAUX ET D'ALLIAGES DE TERRES RARES COMPRENANT UNE ANODE LIQUIDE

Publication

EP 3339480 A1 20180627 (EN)

Application

EP 16205757 A 20161221

Priority

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Abstract (en)

The present invention disclose a method of recycling rare earth elements, rare earth alloys and/or rare earth metals from permanent magnets and/or scrap metals containing iron (Fe) and rare earth elements in a molten salt electrochemical process. The method comprises steps of: arranging an electrolysis cell comprising an anode compartment in communication with an electric lead of a liquid anode, wherein a cathode and/or a cathode product reservoir is collecting refined rare earth alloys, elements and metals in a solid or liquid state separated by a fluoride based liquid electrolyte.

IPC 8 full level

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CPC (source: EP)

C25C 3/34 (2013.01); **C25C 3/36** (2013.01); **C25C 7/005** (2013.01); **C25C 7/025** (2013.01)

Citation (applicant)

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CN114590874A

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

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