

Title (en)
REMOVAL OF METALLIC SALT-CONTAINING IONIC FLUIDS FROM SURFACE-TREATED WORK PIECES AND RECYCLING OF SAID FLUIDS

Title (de)
ENTFERNUNG UND RECYCLING METALLSALZ-HALTIGER IONISCHER FLÜSSIGKEITEN VON OBERFLÄCHENBEHANDELTEN WERKSTÜCKEN

Title (fr)
ÉLIMINATION ET RECYCLAGE DE LIQUIDES IONIQUES CONTENANT DES SELS MÉTALLIQUES, SUR DES PIÈCES AYANT SUBI UN TRAITEMENT DE SURFACE

Publication
EP 2419544 A1 20120222 (DE)

Application
EP 10713455 A 20100413

Priority
• EP 2010054787 W 20100413
• EP 09158004 A 20090416
• EP 10713455 A 20100413

Abstract (en)
[origin: WO2010119018A1] The present invention relates to a method for removing residue of a metallic salt-containing ionic fluid from a work piece, comprising the step of (a) treating at least part of the work piece surface with a treatment agent containing a metallic salt-free ionic fluid and/or an organic solvent, wherein the organic solvent is optionally a halogenated hydrocarbon or a mixture of two or more such hydrocarbons. The residue of the metallic salt-containing ionic fluid on the work piece may originate from an electrolyte bath and is, for example, EMIMClx1.5 AlCl₃ (1-ethyl-3-methylimidazolium chloride containing aluminum chloride for the galvanic coating of metal work pieces with aluminum). After treating the work piece surface with an organic solvent (heptane, toluene, decalin, and the like), the lower phase located in the wash bath is returned from EMIMC1x1.5 AlCl₃ to the electrolyte bath by phase separation.

IPC 8 full level
C22B 7/00 (2006.01); **C22B 21/00** (2006.01); **C23G 5/02** (2006.01); **C25C 3/06** (2006.01); **C25C 3/24** (2006.01); **C25D 3/44** (2006.01); **C25D 21/18** (2006.01)

CPC (source: EP US)
C22B 7/006 (2013.01 - EP US); **C22B 21/0046** (2013.01 - EP US); **C23G 5/02** (2013.01 - EP US); **C25D 3/44** (2013.01 - EP US); **C25D 3/665** (2013.01 - EP US); **C25D 21/08** (2013.01 - EP US); **C25D 21/18** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Citation (search report)
See references of WO 2010119018A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010119018 A1 20101021; EP 2419544 A1 20120222; JP 2012524165 A 20121011; US 2012028868 A1 20120202

DOCDB simple family (application)
EP 2010054787 W 20100413; EP 10713455 A 20100413; JP 2012505143 A 20100413; US 201013264455 A 20100413