

Title (en)

METHOD FOR CLEANING SURFACES USING A PROTIC IONIC LIQUID

Title (de)

VERFAHREN ZUR ABREINIGUNG VON OBERFLÄCHEN MITTELS EINER PROTISCHEN IONISCHEN FLÜSSIGKEIT

Title (fr)

PROCÉDÉ DE NETTOYAGE DE SURFACES METTANT EN OEUVRE UN LIQUIDE IONIQUE DE TYPE PROTIQUE

Publication

EP 2331672 A1 20110615 (FR)

Application

EP 09752202 A 20091008

Priority

- FR 2009001194 W 20091008
- FR 0805579 A 20081009

Abstract (en)

[origin: WO2010040917A1] The invention relates to a cleaning method using a solution that contains an ionic liquid, particularly of the protic type (PILs: protic ionic liquids), the solution being used as a fluid for cleaning and/or stripping surfaces such as metals, ceramics, glass, semiconductors and plastic materials, where said surfaces have been oxidised and/or soiled by oils, greases or soil and/or covered with a protective coating. The ionic liquid is obtained by mixing an imidazole diamine with at least one acid containing at least one carboxylic function.

IPC 8 full level

C11D 7/60 (2006.01); **B08B 3/04** (2006.01); **C11D 7/26** (2006.01); **C11D 7/32** (2006.01); **C23F 1/14** (2006.01); **C23G 1/00** (2006.01)

CPC (source: EP)

B08B 3/10 (2013.01); **B08B 3/12** (2013.01); **C11D 7/265** (2013.01); **C11D 7/3281** (2013.01); **C23G 1/088** (2013.01); **C23G 1/10** (2013.01); **C23G 1/125** (2013.01); **C23G 1/26** (2013.01); **G03F 7/422** (2013.01); **C11D 2111/14** (2024.01); **C11D 2111/16** (2024.01); **C11D 2111/22** (2024.01)

Citation (search report)

See references of WO 2010040917A1

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010040917 A1 20100415; EP 2331672 A1 20110615; FR 2937048 A1 20100416; FR 2937048 B1 20121130

DOCDB simple family (application)

FR 2009001194 W 20091008; EP 09752202 A 20091008; FR 0805579 A 20081009