

Title (en)

METHOD FOR THE RECOVERY OF RUTHENIUM FROM A SUPPORTED CATALYST MATERIAL CONTAINING RUTHENIUM

Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON RUTHENIUM AUS EINEM RUTHENIUMHALTIGEN GETRÄGERTEN KATALYSATORMATERIAL

Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE RUTHÉNIUM À PARTIR D'UN MATÉRIAU DE CATALYSEUR SUPPORTÉ CONTENANT DU RUTHÉNIUM

Publication

EP 2150497 A2 20100210 (DE)

Application

EP 08735260 A 20080416

Priority

- EP 2008003005 W 20080416
- DE 102007020142 A 20070426

Abstract (en)

[origin: WO2008131856A2] The invention relates to a method for the recovery of ruthenium in the form of ruthenium halide, in particular ruthenium chloride from a supported catalyst material containing ruthenium, comprising at least the following steps: a) chemical decomposition of the catalyst material, b) production of a crude ruthenium salt solution, c) purification of the crude ruthenium salt solution and optional expulsion of gaseous ruthenium tetraoxide from said solution, d) subsequent treatment of the purified ruthenium compound contained in c), in particular the ruthenium tetraoxide with hydrogen halide or hydrohalic acid to obtain ruthenium halide, or in particular with hydrogen chloride or hydrochloric acid to obtain ruthenium chloride.

IPC 8 full level

C01G 55/00 (2006.01); **C22B 11/02** (2006.01)

CPC (source: EP KR US)

B01J 23/46 (2013.01 - KR); **B01J 23/462** (2013.01 - EP US); **B01J 23/626** (2013.01 - EP US); **B01J 23/96** (2013.01 - EP US); **B01J 38/68** (2013.01 - EP US); **C01G 55/00** (2013.01 - KR); **C01G 55/005** (2013.01 - EP US); **C22B 3/10** (2013.01 - EP US); **C22B 11/02** (2013.01 - KR); **C22B 11/048** (2013.01 - EP US); **C22B 11/06** (2013.01 - EP US); **H01M 4/92** (2013.01 - KR); **H01M 4/925** (2013.01 - EP US); **H01L 28/65** (2013.01 - EP US); **H01M 4/92** (2013.01 - EP US); **H01M 4/923** (2013.01 - EP US); **H01M 8/008** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02P 10/20** (2015.11 - EP US); **Y02P 20/584** (2015.11 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y02W 30/84** (2015.05 - EP US)

Citation (search report)

See references of WO 2008131856A2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007020142 A1 20081030; CN 101663242 A 20100303; EP 2150497 A2 20100210; JP 2010524672 A 20100722; KR 20100015859 A 20100212; TW 200906731 A 20090216; US 2008287282 A1 20081120; WO 2008131856 A2 20081106; WO 2008131856 A3 20090625

DOCDB simple family (application)

DE 102007020142 A 20070426; CN 200880012993 A 20080416; EP 08735260 A 20080416; EP 2008003005 W 20080416; JP 2010504499 A 20080416; KR 20097022230 A 20080416; TW 97115160 A 20080425; US 10808508 A 20080423