

Title (en)

METHOD FOR REGENERATING A SUPPORTED HYDROGENATION CATALYST CONTAINING RUTHENIUM

Title (de)

VERFAHREN ZUR REGENERIERUNG EINES RUTHENIUM-HALTIGEN GETRÄGERTEN HYDRIERKATALYSATORS

Title (fr)

PROCÉDÉ DE RÉGÉNÉRATION D'UN CATALYSEUR D'HYDROGÉNATION SUPPORTÉ À TENEUR EN RUTHÉNIUM

Publication

EP 2509712 A2 20121017 (DE)

Application

EP 10787119 A 20101206

Priority

- EP 09178939 A 20091211
- EP 2010068911 W 20101206
- EP 10787119 A 20101206

Abstract (en)

[origin: US2011144398A1] Process for regenerating a ruthenium-containing supported hydrogenation catalyst. wherein the catalyst is treated with steam and then dried. Integrated process for hydrogenating benzene to cyclohexane in the presence of a ruthenium-containing supported catalyst, comprising, as well as the hydrogenation step. the catalyst regeneration steps.

IPC 8 full level

B01J 23/96 (2006.01); **B01J 35/00** (2006.01); **B01J 35/10** (2006.01); **B01J 38/06** (2006.01); **C07C 5/10** (2006.01); **C07C 13/18** (2006.01)

CPC (source: EP US)

B01J 23/96 (2013.01 - EP US); **B01J 38/06** (2013.01 - EP US); **C07C 5/10** (2013.01 - EP US); **B01J 23/462** (2013.01 - EP US); **B01J 35/397** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 35/651** (2024.01 - EP US); **B01J 35/653** (2024.01 - EP US); **B01J 35/657** (2024.01 - EP US); **B01J 35/69** (2024.01 - EP US); **C07C 2521/04** (2013.01 - EP US); **C07C 2521/08** (2013.01 - EP US); **C07C 2523/46** (2013.01 - EP US); **C07C 2601/14** (2017.04 - EP US); **Y02P 20/10** (2015.11 - EP US); **Y02P 20/52** (2015.11 - EP US); **Y02P 20/584** (2015.11 - EP US)

Citation (search report)

See references of WO 2011069933A2

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

DOCDB simple family (publication)

US 2011144398 A1 20110616; CN 102652037 A 20120829; EP 2509712 A2 20121017; WO 2011069933 A2 20110616; WO 2011069933 A3 20111013

DOCDB simple family (application)

US 95801010 A 20101201; CN 201080056085 A 20101206; EP 10787119 A 20101206; EP 2010068911 W 20101206