

Title (en)  
CATALYST AND METHOD FOR HYDROGENATING AROMATES

Title (de)  
KATALYSATOR UND VERFAHREN ZUR HYDRIERUNG VON AROMATEN

Title (fr)  
CATALYSEUR ET PROCÉDÉ D'HYDROGÉNATION DE COMPOSÉS AROMATIQUES

Publication  
**EP 2512658 A2 20121024 (DE)**

Application  
**EP 10792900 A 20101214**

Priority

- EP 09179201 A 20091215
- EP 2010069637 W 20101214
- EP 10792900 A 20101214

Abstract (en)  
[origin: WO2011082991A2] The present invention relates to a shell catalyst, comprising an active metal selected from the group of ruthenium, rhodium, palladium, platinum, and mixtures thereof, applied to a carrier material comprising silicon dioxide, wherein the pore volume of the carrier material is 0.6 to 1.0 ml/g, determined by Hg porosimetry, the BET surface area is 280 to 500 m<sup>2</sup>/g, and at least 90% of the pores present comprise a diameter from 6 to 12 nm, to a method for producing said shell catalyst, to a method for hydrogenating an organic compound comprising at least one hydrogenatable group using the shell catalyst, and to the use of the shell catalyst for hydrogenating an organic compound.

IPC 8 full level  
**B01J 23/40** (2006.01); **B01J 21/08** (2006.01); **B01J 37/02** (2006.01)

CPC (source: EP KR US)  
**B01J 21/08** (2013.01 - EP KR US); **B01J 23/40** (2013.01 - EP KR US); **B01J 23/462** (2013.01 - EP KR US); **B01J 35/31** (2024.01 - EP KR US); **B01J 35/392** (2024.01 - EP KR US); **B01J 35/397** (2024.01 - EP KR US); **B01J 35/615** (2024.01 - EP KR US); **B01J 35/635** (2024.01 - EP KR US); **B01J 35/647** (2024.01 - EP KR US); **B01J 35/66** (2024.01 - EP KR US); **B01J 37/0201** (2013.01 - EP KR US); **B01J 37/0203** (2013.01 - EP US); **B01J 37/0205** (2013.01 - EP US); **C07C 5/10** (2013.01 - EP US); **C07C 29/20** (2013.01 - EP US); **C07C 51/36** (2013.01 - EP US); **C07C 67/303** (2013.01 - EP US); **C07C 209/72** (2013.01 - EP US); **C07C 2521/08** (2013.01 - EP US); **C07C 2523/46** (2013.01 - EP US); **C07C 2601/14** (2017.05 - EP US)

C-Set (source: EP US)

1. **C07C 29/20** + **C07C 31/1355**
2. **C07C 29/20** + **C07C 35/21**
3. **C07C 29/20** + **C07C 35/08**
4. **C07C 51/36** + **C07C 61/08**
5. **C07C 67/303** + **C07C 69/75**
6. **C07C 209/72** + **C07C 211/35**
7. **C07C 209/72** + **C07C 211/36**

Citation (examination)  
DE 102005029200 A1 20061228 - BASF AG [DE]

Cited by  
US9717664B2; US9340754B2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2011082991 A2 20110714**; **WO 2011082991 A3 20120503**; CN 102753266 A 20121024; CN 102753266 B 20150902; EP 2512658 A2 20121024; JP 2013513477 A 20130422; JP 5745538 B2 20150708; KR 101833077 B1 20180227; KR 20120092197 A 20120820; US 2012296111 A1 20121122; US 9084983 B2 20150721

DOCDB simple family (application)  
**EP 2010069637 W 20101214**; CN 201080063583 A 20101214; EP 10792900 A 20101214; JP 2012543686 A 20101214; KR 20127018329 A 20101214; US 201013516124 A 20101214