

Title (en)

Ru-Pd HALOGEN-FREE CATALYZERS AND METHOD FOR PRODUCING CYCLOALIPHATIC AMINES

Title (de)

Ru-Pd HALOGENFREIE KATALYSATOREN UND VERFAHREN ZUR HERSTELLUNG VON CYCLOALIPHATISCHEN AMINEN

Title (fr)

CATALYSEURS SANS HALOGENE A BASE DE Ru-Pd ET PROCEDE POUR LA PREPARATION D'AMINES CYCLOALIPHATIQUES

Publication

EP 0946293 A1 19991006 (DE)

Application

EP 97943910 A 19970929

Priority

- DE 19641688 A 19961010
- EP 9705315 W 19970929

Abstract (en)

[origin: DE19641688A1] Aromatic amines can be successfully hydrogenated with catalytically excited H₂ to primary cycloaliphatic amines, when a Ru-Pd catalyzer on support is used, which is produced from halogen-free starting materials.

IPC 1-7

B01J 23/46; **B01J 23/58**; **B01J 23/63**; **B01J 23/656**; **C07C 209/72**

IPC 8 full level

B01J 23/58 (2006.01); **B01J 23/63** (2006.01); **B01J 23/656** (2006.01); **C07B 61/00** (2006.01); **C07C 209/72** (2006.01); **C07C 211/35** (2006.01); **C07C 211/16** (2006.01)

CPC (source: EP US)

B01J 23/58 (2013.01 - EP US); **B01J 23/63** (2013.01 - EP US); **B01J 23/6565** (2013.01 - EP US); **C07C 209/72** (2013.01 - EP US)

Citation (search report)

See references of WO 9815351A1

Designated contracting state (EPC)

BE CH DE ES FR GB LI NL PT

DOCDB simple family (publication)

DE 19641688 A1 19980416; AU 4557797 A 19980505; CZ 124799 A3 19991215; EP 0946293 A1 19991006; JP 2001501531 A 20010206; US 6111140 A 20000829; WO 9815351 A1 19980416

DOCDB simple family (application)

DE 19641688 A 19961010; AU 4557797 A 19970929; CZ 124799 A 19970929; EP 9705315 W 19970929; EP 97943910 A 19970929; JP 51713598 A 19970929; US 26992999 A 19990405