

Title (en)

CATALYST WITH BIMODAL DISTRIBUTION OF THE PARTICLES OF THE CATALYTICALLY ACTIVE MATERIAL, METHOD FOR THE PRODUCTION THEREOF AND FOR THE REGENERATION THEREOF AND THE USE OF THE CATALYST

Title (de)

KATALYSATOR MIT BIMODALER VERTEILUNG DER PARTIKEL DES KATALYTISCH AKTIVEN MATERIALS, VERFAHREN ZU DESSEN HERSTELLUNG UND ZU DESSEN REGENERIERUNG UND VERWENDUNG DES KATALYSATORS

Title (fr)

CATALYSEUR A REPARTITION BIMODALE DES PARTICULES DE LA MATIERE CATALYTIQUEMENT ACTIVE, PROCEDE POUR SA PRODUCTION ET SA REGENERATION ET UTILISATION DE CE CATALYSEUR

Publication

**EP 1907120 A1 20080409 (DE)**

Application

**EP 06792487 A 20060711**

Priority

- EP 2006064073 W 20060711
- DE 102005034004 A 20050718

Abstract (en)

[origin: WO2007009904A1] The present invention relates to a catalyst, containing a carrier and a catalytically active material. The particles of the catalytically active material are distributed bimodally according to size. The fraction of larger particles of the catalytically active material and the fraction of smaller particles of the catalytically active material are evenly mixed in the catalytically active layer of the catalyst. The catalytically active materials amounts to 50 wt. % or less relative to the catalyst. The invention also relates to a method for producing or for regenerating a catalyst such as that claimed. In a first step of the method, a catalytically active material located on a carrier is coagulated. In a further step, an additional catalytically active material is applied to the carrier. The invention also relates to the use of the catalytically active material for the dehydrogenation of five or six-membered carbon-containing molecular rings to produce aromatic compounds.

IPC 8 full level

**B01J 35/10** (2006.01); **B01J 23/38** (2006.01); **B01J 23/44** (2006.01); **B01J 23/70** (2006.01); **B01J 37/02** (2006.01); **B01J 37/08** (2006.01); **C07C 37/07** (2006.01); **C07D 207/32** (2006.01); **C07D 213/06** (2006.01)

CPC (source: EP)

**B01J 23/44** (2013.01); **B01J 35/23** (2024.01); **B01J 35/393** (2024.01); **B01J 35/396** (2024.01); **B01J 35/69** (2024.01); **B01J 37/0205** (2013.01); **B01J 37/08** (2013.01); **C07C 37/07** (2013.01); **C07D 207/323** (2013.01); **C07D 213/06** (2013.01); **B01J 23/40** (2013.01); **B01J 23/48** (2013.01); **B01J 23/70** (2013.01); **Y02P 20/52** (2015.11); **Y02P 20/584** (2015.11)

Citation (search report)

See references of WO 2007009904A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102005034004 A1 20070125**; CN 101282786 A 20081008; EP 1907120 A1 20080409; WO 2007009904 A1 20070125

DOCDB simple family (application)

**DE 102005034004 A 20050718**; CN 200680034160 A 20060711; EP 06792487 A 20060711; EP 2006064073 W 20060711