

Title (en)

CATALYST MOLDED BODIES AND METHOD FOR PRODUCING MALEIC ACID ANHYDRIDE

Title (de)

KATALYSATORFORMKÖRPER UND VERFAHREN ZUR HERSTELLUNG VON MALEINSÄUREANHYDRID

Title (fr)

CORPS MOULÉ CATALYSEUR ET PROCÉDÉ DE PRODUCTION D'ANHYDRIDE MALÉIQUE

Publication

EP 2379223 A2 20111026 (DE)

Application

EP 09801445 A 20091221

Priority

- EP 2009067657 W 20091221
- EP 08172633 A 20081222
- EP 09801445 A 20091221

Abstract (en)

[origin: WO2010072721A2] The catalytically active mass of a catalyst molded body comprises a multi-element oxide containing vanadium and phosphorus. The specific pore volume PV (in ml/g) of the catalyst molded body, the bulk density p of the catalyst molded body (in kg/l), the geometric surface area Ageo (in mm²), and the geometric volume Vgeo (in mm³) of the catalyst molded body satisfy the condition: 0.275 geo/Vgeo. In a method for producing maleic acid anhydride by heterogeneously catalytic gas phase oxidation of a hydrocarbon, the catalyst molded body allows a lower pressure loss and a high yield.

IPC 8 full level

B01J 27/198 (2006.01); **B01J 35/02** (2006.01); **B01J 35/10** (2006.01); **C07C 51/215** (2006.01)

CPC (source: EP US)

B01J 27/198 (2013.01 - EP US); **B01J 35/31** (2024.01 - EP US); **B01J 35/50** (2024.01 - EP US); **B01J 35/633** (2024.01 - EP US); **B01J 37/0018** (2013.01 - EP US); **C07C 51/215** (2013.01 - EP US); **B01J 35/30** (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 35/66** (2024.01 - EP US)

Citation (search report)

See references of WO 2010072721A2

Citation (third parties)

Third party :

SABRI ERGUN: "Fluid Flow Through Packed Columns", CHEMICAL ENGINEERING PROGRESS, vol. 48, no. 2, February 1952 (1952-02-01), pages 89 - 94, XP003030812

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010072721 A2 20100701; **WO 2010072721 A3 20101028**; CN 102325593 A 20120118; EP 2379223 A2 20111026; US 2011257414 A1 20111020

DOCDB simple family (application)

EP 2009067657 W 20091221; CN 200980157204 A 20091221; EP 09801445 A 20091221; US 200913141179 A 20091221