

Title (en)

CATALYST PRECURSOR FOR PRODUCING MALEIC ACID ANHYDRIDE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

KATALYSATOR-PRECURSOR FÜR DIE HERSTELLUNG VON MALEINSÄUREANHYDRID UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

PRÉCURSEUR DE CATALYSEUR POUR LA PRODUCTION D'ANHYDRIDE D'ACIDE MALÉIQUE ET SON PROCÉDÉ DE PRODUCTION

Publication

**EP 2470301 A1 20120704 (DE)**

Application

**EP 10744601 A 20100823**

Priority

- EP 09168703 A 20090826
- EP 2010062207 W 20100823
- EP 10744601 A 20100823

Abstract (en)

[origin: WO2011023646A1] The invention relates to a method for producing a catalyst precursor comprising vanadium, phosphorus, and oxygen, for producing maleic acid anhydride by heterogeneous catalytic gas phase oxidation of a hydrocarbon having at least four carbon atoms, characterized in that (a) vanadium pentoxide is converted in the presence of iso-butanol and optionally in the presence of a primary or secondary, non-cyclical or cyclical, unbranched or branched, saturated alcohol having 3 to 6 carbon atoms, and 102 to 110% phosphoric acid, in a temperature range from 80 to 160 °C; (b) the precipitate that forms is isolated; (c) (i) the isolated precipitate is dried to a residual iso-butanol content of less than 5% by weight; (ii) the dried precipitate is then permeated by a gas comprising 0.1% to 9% by volume of oxygen in addition to one or more inert gases, immediately or after isolating, in a temperature range from 130 °C to 200 °C.

IPC 8 full level

**B01J 27/198** (2006.01); **B01J 35/02** (2006.01); **B01J 37/03** (2006.01); **B01J 37/08** (2006.01); **C07C 51/215** (2006.01); **C07C 51/25** (2006.01)

CPC (source: EP US)

**B01J 23/002** (2013.01 - EP US); **B01J 27/198** (2013.01 - EP US); **B01J 37/08** (2013.01 - EP US); **C07C 51/215** (2013.01 - EP US); **B01J 35/30** (2024.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/50** (2024.01 - EP US); **B01J 37/0009** (2013.01 - EP US); **B01J 37/031** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2011023646A1

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2011023646 A1 20110303**; CN 102574112 A 20120711; EP 2470301 A1 20120704; US 2012149919 A1 20120614

DOCDB simple family (application)

**EP 2010062207 W 20100823**; CN 201080037879 A 20100823; EP 10744601 A 20100823; US 201013391958 A 20100823