

Title (en)

METHOD FOR PRODUCING METHACROLEIN FROM ISOBUTANE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON METHACROLEIN AUS ISO-BUTAN

Title (fr)

PROCEDE DE PRODUCTION D'ALDEHYDE METHACRYLIQUE A PARTIR D'ISOBUTANE

Publication

EP 1404633 A1 20040407 (DE)

Application

EP 02760203 A 20020628

Priority

- DE 10131297 A 20010629
- DE 10211275 A 20020313
- DE 10219686 A 20020502
- EP 0207174 W 20020628

Abstract (en)

[origin: WO03002492A1] The invention relates to a method for producing methacrolein from isobutane, which is characterized by subjecting the isobutane to a partial catalytic dehydration in the gas phase and feeding the resulting gas mixture containing isobutene to an oxidation zone in which the isobutene is oxidized to methacrolein in the gas phase by heterogeneous catalysis. Molecular oxygen is used as the oxygen source and is added together with molecular nitrogen.

IPC 1-7

C07C 5/333; **C07C 45/35**; **C07C 51/25**

IPC 8 full level

C07C 45/34 (2006.01); **B01J 27/199** (2006.01); **C07B 61/00** (2006.01); **C07C 45/33** (2006.01); **C07C 45/35** (2006.01); **C07C 47/22** (2006.01); **C07C 51/235** (2006.01); **C07C 57/055** (2006.01); **C07C 253/26** (2006.01); **C07C 255/08** (2006.01)

CPC (source: EP KR US)

B01J 23/002 (2013.01 - EP US); **B01J 27/199** (2013.01 - EP US); **C07C 5/333** (2013.01 - KR); **C07C 45/29** (2013.01 - KR); **C07C 45/33** (2013.01 - EP US); **C07C 45/35** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP US)

Citation (search report)

See references of WO 03002492A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03002492 A1 20030109; CN 1246269 C 20060322; CN 1522237 A 20040818; EP 1404633 A1 20040407; JP 2004530723 A 20041007; KR 100900848 B1 20090604; KR 20040043131 A 20040522; US 2004171887 A1 20040902; US 7176335 B2 20070213

DOCDB simple family (application)

EP 0207174 W 20020628; CN 02813092 A 20020628; EP 02760203 A 20020628; JP 2003508678 A 20020628; KR 20037016783 A 20031223; US 48233703 A 20031229