

Title (en)
METHOD FOR PRODUCING METHACRYLIC ACID FROM ISOBUTANE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON METHACRYLSAEURE AUS ISO-BUTAN

Title (fr)
PROCEDE DE PRODUCTION D'ACIDE METHACRYLIQUE A PARTIR D'ISOBUTANE

Publication
EP 1404632 A1 20040407 (DE)

Application
EP 02751090 A 20020628

Priority

- DE 10131297 A 20010629
- DE 10211275 A 20020313
- DE 10219685 A 20020502
- EP 0207175 W 20020628

Abstract (en)
[origin: WO03002493A1] The invention relates to a method for producing methacrylic acid 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 once the components different from isobutane and isobutene have been substantially removed from the gas mixture. The oxygen required for charging the oxidation zone is added together with nitrogen.

IPC 1-7
C07C 5/333; C07C 45/35; C07C 51/25

IPC 8 full level
C07C 51/235 (2006.01); **B01J 27/199** (2006.01); **C07B 61/00** (2006.01); **C07C 45/33** (2006.01); **C07C 45/35** (2006.01); **C07C 51/25** (2006.01); **C07C 57/05** (2006.01); **C07C 57/055** (2006.01)

CPC (source: EP KR US)
B01J 23/002 (2013.01 - EP US); **B01J 27/199** (2013.01 - EP US); **C07C 45/33** (2013.01 - EP US); **C07C 45/35** (2013.01 - EP US); **C07C 51/16** (2013.01 - KR); **C07C 51/25** (2013.01 - KR); **C07C 51/252** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP US)

Citation (search report)
See references of WO 03002493A1

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 03002493 A1 20030109; CN 1219737 C 20050921; CN 1522236 A 20040818; EP 1404632 A1 20040407; JP 2004530724 A 20041007; JP 4456862 B2 20100428; KR 100900849 B1 20090604; KR 20050005734 A 20050114; US 2004242925 A1 20041202; US 6933407 B2 20050823

DOCDB simple family (application)
EP 0207175 W 20020628; CN 02813025 A 20020628; EP 02751090 A 20020628; JP 2003508679 A 20020628; KR 20037016784 A 20031223; US 48065103 A 20031229