

Title (en)

PRODUCTION OF 3-METHYLBUT-1-EN BY MEANS OF DEHYDRATION OF 3-METHYLBUTANE-1-OL

Title (de)

HERSTELLUNG VON 3-METHYLBUT-1-EN DURCH DEHYDRATISIERUNG VON 3-METHYLBUTAN-1-OL

Title (fr)

PRODUCTION DE 3-MÉTHYLBUT-1-ÈNE PAR DÉSHYDRATATION DE 3-MÉTHYLBUTAN-1-OL

Publication

EP 2435388 A2 20120404 (DE)

Application

EP 10716338 A 20100428

Priority

- EP 2010055670 W 20100428
- DE 102009026585 A 20090529

Abstract (en)

[origin: WO2010136289A2] The object of the invention is a method for producing 3-methylbut-1-en by means of dehydrating 3-methylbutane-1-ol at an aluminum-containing oxide in a temperature range of 200 to 450°C in the gaseous or liquid/gaseous mixture phase, characterized by an aluminum-containing oxide having mostly mesoporous pore structure is being used, which: a) relative ratio of macropores is less than 15%; b) contribution of the pore diameter has a monomodal maximum in the region of the mesopores of 3.6 to 50 nm; c) average pore diameter of all pores in the region of the meso- and macropores ranges from 5 to 20 nm; d) composition consists of gamma-aluminum oxide of more than 80%.

IPC 8 full level

C07C 1/24 (2006.01); **C07C 11/10** (2006.01)

CPC (source: EP US)

C07C 1/24 (2013.01 - EP US)

Citation (search report)

See references of WO 2010136289A2

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)

DE 102009026585 A1 20101202; CN 102448912 A 20120509; EP 2435388 A2 20120404; JP 2012528096 A 20121112; JP 5591325 B2 20140917; SG 176241 A1 20120130; US 2012136190 A1 20120531; WO 2010136289 A2 20101202; WO 2010136289 A3 20110210

DOCDB simple family (application)

DE 102009026585 A 20090529; CN 201080023714 A 20100428; EP 10716338 A 20100428; EP 2010055670 W 20100428; JP 2012512286 A 20100428; SG 2011087376 A 20100428; US 201013322527 A 20100428