

Title (en)
METHODS FOR BIOSYNTHESIZING 1,3 BUTADIENE

Title (de)
VERFAHREN ZUR BIOSYNTHESE VON 1,3-BUTADIEN

Title (fr)
PROCÉDÉS POUR LA BIOSYNTÈSE DE 1,3-BUTADIÈNE

Publication
EP 2861745 A2 20150422 (EN)

Application
EP 13739305 A 20130612

Priority

- US 2012042757 W 20120615
- US 2012067463 W 20121130
- US 2013045430 W 20130612

Abstract (en)
[origin: WO2013188546A2] This document describes biochemical pathways for producing butadiene by forming two vinyl groups in a butadiene synthesis substrate. These pathways described herein rely on enzymes such as mevalonate diphosphate decarboxylase, isoprene synthase, and dehydratases for the final enzymatic step.

IPC 8 full level
C12P 5/02 (2006.01); **C07C 11/167** (2006.01); **C12N 9/00** (2006.01); **C12N 9/02** (2006.01)

CPC (source: EP)
C12N 9/0004 (2013.01); **C12P 5/026** (2013.01); **C12Y 401/01033** (2013.01); **C12Y 402/01127** (2013.01); **C12Y 402/03027** (2013.01); **Y02E 50/30** (2013.01)

Citation (search report)
See references of WO 2013188546A2

Citation (examination)

- WO 2011140171 A2 20111110 - GENOMATICA INC [US], et al
- WO 2013082542 A2 20130606 - INVISTA NORTH AMERICA SARL [US]
- WO 2014033129 A1 20140306 - SCIENTIST OF FORTUNE SA [LU]

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2013188546 A2 20131219; WO 2013188546 A3 20140327; CN 104769119 A 20150708; EP 2861745 A2 20150422

DOCDB simple family (application)
US 2013045430 W 20130612; CN 201380043586 A 20130612; EP 13739305 A 20130612