

Title (en)

METHODS FOR BIOSYNTHESIZING 1,3BUTADIENE

Title (de)

VERFAHREN ZUR BIOSYNTHETISIERUNG VON 1,3BUTADIEN

Title (fr)

PROCÉDÉS DE BIOSYNTÈSE DU 1,3-BUTADIÈNE

Publication

**EP 2785848 A2 20141008 (EN)**

Application

**EP 12799032 A 20121130**

Priority

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- US 201261714883 P 20121017
- US 2012067463 W 20121130

Abstract (en)

[origin: WO2013082542A2] 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

**C07C 11/167** (2006.01); **C12N 9/00** (2006.01); **C12P 5/02** (2006.01)

CPC (source: EP)

**C12N 9/0004** (2013.01); **C12N 9/88** (2013.01); **C12N 15/52** (2013.01); **C12P 5/026** (2013.01); **C12Y 401/01033** (2013.01); **C12Y 402/03027** (2013.01); **Y02E 50/30** (2013.01)

Citation (search report)

See references of WO 2013082542A2

Citation (examination)

- WO 2013092567 A2 20130627 - SCIENTIST OF FORTUNE SA [LU]
- WO 2013188546 A2 20131219 - INVISTA TECH SARL [CH]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2013082542 A2 20130606**; **WO 2013082542 A3 20130822**; BR 112014012999 A2 20170613; CN 104321434 A 20150128; EP 2785848 A2 20141008

DOCDB simple family (application)

**US 2012067463 W 20121130**; BR 112014012999 A 20121130; CN 201280068870 A 20121130; EP 12799032 A 20121130