

Title (en)
BIOTECHNOLOGICAL SYNTHESIS PROCESS OF OMEGA-FUNCTIONALIZED CARBON ACIDS AND CARBON ACID ESTERS FROM SIMPLE CARBON SOURCES

Title (de)
BIOTECHNOLOGISCHES SYNTHEVERFAHREN VON OMEGA-FUNKTIONALISIERTEN CARBONSÄUREN UND CARBONSÄURE-ESTERN AUS EINFACHEN KOHLENSTOFFQUELLEN

Title (fr)
PROCÉDÉ BIOTECHNOLOGIQUE DE SYNTHÈSE D'ACIDES CARBOXYLIQUES FONCTIONNALISÉS EN OMÉGA ET ESTERS D'ACIDES CARBOXYLIQUES À BASE DE SOURCES DE CARBONE SIMPLES

Publication
EP 2744897 A2 20140625 (DE)

Application
EP 12745886 A 20120815

Priority
• DE 102011110946 A 20110815
• EP 2012065941 W 20120815

Abstract (en)
[origin: WO2013024114A2] The invention relates to a biotechnological process for the preparation of functionalized carbon acids and functionalized carbon acid esters from simple carbon sources.

IPC 8 full level
C12N 9/10 (2006.01); **C12N 9/00** (2006.01); **C12N 9/88** (2006.01); **C12P 1/04** (2006.01); **C12P 7/62** (2022.01)

CPC (source: CN EP US)
C08G 69/08 (2013.01 - US); **C12N 9/0006** (2013.01 - CN EP US); **C12N 9/0008** (2013.01 - CN EP US); **C12N 9/001** (2013.01 - EP US); **C12N 9/0014** (2013.01 - EP US); **C12N 9/0016** (2013.01 - CN); **C12N 9/0077** (2013.01 - CN EP US); **C12N 9/1029** (2013.01 - EP US); **C12N 9/1096** (2013.01 - CN); **C12N 9/16** (2013.01 - EP US); **C12N 9/88** (2013.01 - EP US); **C12N 9/93** (2013.01 - EP US); **C12N 15/52** (2013.01 - CN EP US); **C12P 7/40** (2013.01 - EP US); **C12P 7/42** (2013.01 - CN EP US); **C12P 7/62** (2013.01 - CN EP US); **C12P 7/6409** (2013.01 - EP US); **C12P 13/005** (2013.01 - CN EP US); **C12P 13/02** (2013.01 - CN US); **C12Y 101/01001** (2013.01 - CN); **C12Y 101/01002** (2013.01 - CN); **C12Y 101/0302** (2013.01 - CN); **C12Y 101/99** (2013.01 - CN); **C12Y 102/01003** (2013.01 - CN); **C12Y 102/01004** (2013.01 - CN); **C12Y 102/01005** (2013.01 - CN); **C12Y 104/01001** (2013.01 - CN); **C12Y 114/15003** (2013.01 - CN); **C12Y 206/01** (2013.01 - CN); **Y02P 20/52** (2015.11 - US)

Citation (examination)
WO 2009111513 A1 20090911 - JOULE BIOTECHNOLOGIES INC [US], et al

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

DOCDB simple family (publication)
WO 2013024114 A2 20130221; **WO 2013024114 A3 20130530**; CN 103857793 A 20140611; DE 102011110946 A1 20160121; EP 2744897 A2 20140625; SG 10201606606Y A 20160929; SG 2014009880 A 20140428; US 2014256904 A1 20140911

DOCDB simple family (application)
EP 2012065941 W 20120815; CN 201280050644 A 20120815; DE 102011110946 A 20110815; EP 12745886 A 20120815; SG 10201606606Y A 20120815; SG 2014009880 A 20120815; US 201214238591 A 20120815