

Title (en)
METHOD OF CONVERTING GREASE CONTAINING HIGH CONTENT OF FREE FATTY ACIDS TO FATTY ACID ESTERS AND CATALYSTS FOR USE IN SAID METHOD

Title (de)
VERFAHREN ZUR UMWANDLUNG VON FETT MIT HOHEM GEHALT AN FREIEN FETTSÄUREN IN FETTSÄUREESTER UND KATALYSATOREN ZUR VERWENDUNG IN DIESEM VERFAHREN

Title (fr)
PROCÉDÉ DE CONVERSION D'UNE GRAISSE À TENEUR ÉLEVÉE D'ACIDES GRAS LIBRES EN ESTERS D'ACIDES GRAS ET CATALYSEURS POUVANT ÊTRE UTILISÉS DANS LEDIT PROCÉDÉ

Publication
EP 2751237 A4 20160817 (EN)

Application
EP 12835766 A 20121001

Priority
• US 201161541239 P 20110930
• US 201161541243 P 20110930
• US 201161564962 P 20111130
• SG 2012000365 W 20121001

Abstract (en)
[origin: WO2013048346A1] A method of producing fatty acid esters from a composition comprising glycerides and at least 10% by weight of free fatty acids (FFA), the method comprising incubating a plurality of micro- or nano-sized catalysing particles with the composition, to catalyse the conversion of FFA to fatty acid esters, such that at least 80% of the FFA are converted to fatty acid esters.

IPC 8 full level
C11B 1/00 (2006.01); **B01J 37/36** (2006.01); **C07C 67/02** (2006.01); **C08G 63/48** (2006.01); **C11C 3/04** (2006.01)

CPC (source: EP)
B01J 35/23 (2024.01); **B01J 35/30** (2024.01); **B01J 35/33** (2024.01); **B01J 37/0209** (2013.01); **B01J 37/031** (2013.01); **C07C 67/02** (2013.01); **C10L 1/026** (2013.01); **C11C 3/003** (2013.01); **C10G 2300/1014** (2013.01); **Y02E 50/10** (2013.01); **Y02P 30/20** (2015.11)

Citation (search report)
• [XY] US 2011224451 A1 20110915 - CHATURVEDI RAJIV KUMAR [IN], et al
• [Y] WO 2010005391 A1 20100114 - AGENCY SCIENCE TECH & RES [SG], et al
• [X] DATABASE GENBANK, [online] 16 August 2006 (2006-08-16), LEE K-W ET AL: "SERRATIA MARCESCENS STRAIN ES-2 LIPASE (ESF) GENE, COMPLETE CDS", XP003031007, retrieved from GENBANK Database accession no. DQ841349
• [X] DATABASE GENBANK, [online] 12 June 2006 (2006-06-12), UPPENBERG J ET AL: "C.ANTARCTICA (LF 058) GENE FOR LIPASE B", XP003031005, retrieved from GENBANK Database accession no. Z30645
• [X] DATABASE GENBANK, [online] 30 December 2007 (2007-12-30), ZHENG Y ET AL: "THERMOMYCES LANUGINOSUS LIPASE (LGY) GENE, COMPLETE CDS", XP003031006, retrieved from GENBANK Database accession no. EU022703
• See references of WO 2013048346A1

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 2013048346 A1 20130404; CN 104080897 A 20141001; EP 2751237 A1 20140709; EP 2751237 A4 20160817; SG 10201602493Y A 20160530; SG 11201401013T A 20140428

DOCDB simple family (application)
SG 2012000365 W 20121001; CN 201280056907 A 20121001; EP 12835766 A 20121001; SG 10201602493Y A 20121001; SG 11201401013T A 20121001