

Title (en)

METHOD FOR OBTAINING FATTY ACIDS FROM BIOMASS BY COMBINED  $\text{i}(\text{IN-SITU})$  EXTRACTION, REACTION AND CHROMATOGRAPHY USING COMPRESSED GASES

Title (de)

VERFAHREN ZUR PRÄPARATIVEN GEWINNUNG VON FETTSÄUREN AUS BIOMASSE DURCH  $\text{i}(\text{IN-SITU})$ -EXTRAKTION-REAKTION-CHROMATOGRAPHIE MIT VERDICHTETEN GASEN

Title (fr)

PROCEDE DE PREPARATION D'ACIDES GRAS A PARTIR DE BIOMASSE PAR CHROMATOGRAPHIE COUPLEE AVEC DES TRANSFORMATIONS CHIMIQUES PAR EXTRACTION  $\text{i}(\text{IN-SITU})$  AVEC DES GAZ COMPRIMES

Publication

**EP 1102859 A1 20010530 (DE)**

Application

**EP 99938281 A 19990717**

Priority

- DE 19832784 A 19980722
- DE 19906474 A 19990212
- EP 9905107 W 19990717

Abstract (en)

[origin: WO0005395A1] The invention relates to a method for obtaining fatty acid esters and fatty acids, preferably unsaturated fatty acid ethyl esters, from biological sources by continuous, combined in-situ extraction, reaction and chromatography. The invention is characterized in that simultaneously and in the same location, in the presence of a compressed gas and an 0.5 - 5 % stream of lower alcohols as modifiers and in the presence of an inert catalyst, the fatty acids are fully transesterified from their native fatty acid sources, which are selectively desorbed and eluted in the conditions specified above.

IPC 1-7

**C12P 7/64; C12P 7/62**

IPC 8 full level

**A23L 1/00** (2006.01); **A23L 1/30** (2006.01); **A23L 29/00** (2016.01); **A61K 31/22** (2006.01); **A61K 31/23** (2006.01); **A61K 35/66** (2006.01); **C11B 1/10** (2006.01); **C11B 3/10** (2006.01); **C11B 7/00** (2006.01); **C11C 3/10** (2006.01); **C12P 7/64** (2006.01)

CPC (source: EP US)

**A23L 33/12** (2016.07 - EP US); **A61K 31/23** (2013.01 - EP US); **B01D 15/08** (2013.01 - EP US); **C11B 1/104** (2013.01 - EP US); **C11B 7/005** (2013.01 - EP US); **C11C 3/003** (2013.01 - EP US); **C11C 3/10** (2013.01 - EP US)

Citation (search report)

See references of WO 0005395A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0005395 A1 20000203**; EP 1102859 A1 20010530; JP 2002521030 A 20020716; NO 20010276 D0 20010117; NO 20010276 L 20010320; US 6350890 B1 20020226

DOCDB simple family (application)

**EP 9905107 W 19990717**; EP 99938281 A 19990717; JP 2000561341 A 19990717; NO 20010276 A 20010117; US 74414201 A 20010216