

Title (en)

METHOD FOR PRODUCING ORGANIC MOLECULES FROM FERMENTABLE BIOMASS

Title (de)

VERFAHREN ZUR HERSTELLUNG ORGANISCHER MOLEKÜLE AUS FERMENTIERBARER BIOMASSE

Title (fr)

PROCÉDÉ DE PRODUCTION DE MOLÉCULES ORGANIQUES À PARTIR DE BIOMASSE FERMENTESCIBLE

Publication

EP 3172331 A1 20170531 (FR)

Application

EP 15756198 A 20150717

Priority

- FR 1457198 A 20140725
- FR 2015051967 W 20150717

Abstract (en)

[origin: WO2016012701A1] The invention relates to a method for producing organic molecules from fermentable biomass, which includes a step of anaerobic fermentation (5) producing volatile fatty acids (6), said precursors being transformed into final organic molecules by non-fermentation means. The method also includes at least the following steps: a) extracting (9) at least one portion of the volatile fatty acids from the fermentation medium such that the production of fermentation metabolites by the microorganisms (M) is not affected and injecting a portion of the liquid phase (11) containing microorganisms from the extraction (9); b) synthesising (13) organic molecules from the fermentation metabolites or volatile fatty acids extracted in step a); and c) continuing steps a) to b) until obtaining a final amount and quality of organic molecules. The invention also relates to a facility for implementing the method.

IPC 8 full level

C12P 7/40 (2006.01); **C12M 1/107** (2006.01); **C12P 5/02** (2006.01); **C12P 7/52** (2006.01); **C12P 7/54** (2006.01); **C12P 39/00** (2006.01)

CPC (source: CN EP RU US)

C05F 1/005 (2013.01 - EP US); **C05F 1/007** (2013.01 - EP US); **C05F 1/02** (2013.01 - EP US); **C05F 9/00** (2013.01 - EP US); **C05F 9/02** (2013.01 - EP US); **C12M 1/107** (2013.01 - RU); **C12M 21/04** (2013.01 - CN EP US); **C12M 29/20** (2013.01 - CN EP US); **C12M 43/00** (2013.01 - CN EP US); **C12M 99/00** (2013.01 - US); **C12P 5/02** (2013.01 - RU); **C12P 5/023** (2013.01 - CN EP US); **C12P 7/40** (2013.01 - CN EP RU US); **C12P 7/52** (2013.01 - CN EP RU US); **C12P 7/54** (2013.01 - CN EP RU US); **C12P 39/00** (2013.01 - CN EP RU US); **C25B 3/00** (2013.01 - EP US); **Y02A 40/20** (2017.12 - EP US); **Y02E 50/30** (2013.01 - CN EP US); **Y02P 20/145** (2015.11 - EP US); **Y02W 30/40** (2015.05 - CN EP US)

Citation (search report)

See references of WO 2016012701A1

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 2016012701 A1 20160128; AU 2015293776 A1 20170216; AU 2015293776 B2 20190516; BR 112017001232 A2 20171128; BR 112017001232 B1 20230314; CA 2955770 A1 20160128; CA 2955770 C 20230829; CN 106536741 A 20170322; EP 3172331 A1 20170531; FR 3024159 A1 20160129; FR 3024159 B1 20180202; MY 187272 A 20210917; RU 2017101975 A 20180827; RU 2017101975 A3 20181224; RU 2688413 C2 20190521; US 11059757 B2 20210713; US 2017158572 A1 20170608

DOCDB simple family (application)

FR 2015051967 W 20150717; AU 2015293776 A 20150717; BR 112017001232 A 20150717; CA 2955770 A 20150717; CN 201580039464 A 20150717; EP 15756198 A 20150717; FR 1457198 A 20140725; MY PI2017700260 A 20150717; RU 2017101975 A 20150717; US 201515327524 A 20150717