

Title (en)
METHOD FOR CULTURING MICROORGANISMS, BIOREACTOR FOR IMPLEMENTING SAME AND METHOD FOR PRODUCING SUCH A BIOREACTOR

Title (de)
VERFAHREN ZUR KULTIVIERUNG VON MIKROORGANISMEN, BIOREAKTOR ZUR DURCHFÜHRUNG DAVON UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN BIOREAKTORS

Title (fr)
PROCEDE DE CULTURE DE MICRO-ORGANISMES, BIOREACTEUR DE MISE EN OEUVRE ET PROCEDE DE FABRICATION D'UN TEL BIOREACTEUR

Publication
EP 2356205 A2 20110817 (FR)

Application
EP 09752207 A 20091014

Priority
• FR 2009001205 W 20091014
• FR 0806296 A 20081112

Abstract (en)
[origin: WO2010055219A2] The present invention thus aims to propose a bioreactor which has an improved yield (concentration, productivity), which is capable of culturing microorganisms sensitive to mechanical stresses, and which is energy-saving. The subject matter of the invention is a method for culturing microorganisms in suspension in a culture medium, in which the microorganism suspension is made to flow in a channel which has means for generating mixing by Lagrangian chaos when the microorganism suspension circulates in said channel.

IPC 8 full level
C12M 1/00 (2006.01); **C12M 1/02** (2006.01); **C12M 1/24** (2006.01); **C12N 1/12** (2006.01); **C12N 1/20** (2006.01)

CPC (source: EP US)
C12M 21/02 (2013.01 - EP US); **C12M 23/02** (2013.01 - EP US); **C12M 27/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2010055219A2

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
FR 2938268 A1 20100514; **FR 2938268 B1 20130329**; CA 2742699 A1 20100520; EP 2356205 A2 20110817; JP 2012508003 A 20120405; US 2012115209 A1 20120510; WO 2010055219 A2 20100520; WO 2010055219 A3 20101014

DOCDB simple family (application)
FR 0806296 A 20081112; CA 2742699 A 20091014; EP 09752207 A 20091014; FR 2009001205 W 20091014; JP 2011535148 A 20091014; US 200913128033 A 20091014