

Title (en)

METHOD FOR STIMULATING THE GROWTH OF BIOMASS IN A LIQUID INSIDE A BIOREACTOR

Title (de)

VERFAHREN ZUM STIMULIEREN DES WACHSTUMS VON IN EINER FLÜSSIGKEIT ENTHALTENEN BIOMASSE INNERHALB EINES BIOREAKTORS

Title (fr)

PROCÉDÉ POUR STIMULER LA CROISSANCE DE BIOMASSE CONTENUE DANS UN LIQUIDE À L'INTÉRIEUR D'UN BIORÉACTEUR

Publication

EP 3861095 A1 20210811 (DE)

Application

EP 19783990 A 20190925

Priority

- DE 102018124666 A 20181005
- EP 2019075929 W 20190925

Abstract (en)

[origin: WO2020069944A1] The invention relates to a method for stimulating the growth of a biomass, which is mixed with a liquid inside a bioreactor (11; 21), by means of ionising radiation. The following method steps are used: a) exposing a first partial volume (15; 25) of the liquid in the bioreactor (11; 21) to ionising radiation, the first partial volume (15; 25) comprising at most 10% of the liquid volume (12; 22) in the bioreactor (11; 21); b) mixing the first partial liquid volume (15; 25), which has been exposed to ionising radiation, with the second partial liquid volume, which has not been exposed to ionising radiation, in the bioreactor (11; 21); c) repeating method steps a) and b) multiple times, each partial volume of the liquid in the bioreactor (11; 21) being exposed to a total radiation dose of at most 50 Gy on statistical average.

IPC 8 full level

C12M 1/00 (2006.01); **C12M 1/06** (2006.01); **C12M 1/42** (2006.01)

CPC (source: EP KR US)

C12M 21/02 (2013.01 - EP US); **C12M 23/22** (2013.01 - EP US); **C12M 27/02** (2013.01 - EP KR US); **C12M 29/18** (2013.01 - EP KR US); **C12M 29/26** (2013.01 - EP KR US); **C12M 35/02** (2013.01 - EP KR US); **C12N 1/00** (2013.01 - EP); **C12N 1/12** (2013.01 - EP); **C12N 1/14** (2013.01 - EP); **C12N 1/20** (2013.01 - EP); **C12N 13/00** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2020069944A1

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 2020069944 A1 20200409; BR 112021006089 A2 20210720; CN 112789349 A 20210511; DE 102018124666 A1 20200409; EP 3861095 A1 20210811; KR 20210072052 A 20210616; US 2021380964 A1 20211209

DOCDB simple family (application)

EP 2019075929 W 20190925; BR 112021006089 A 20190925; CN 201980065273 A 20190925; DE 102018124666 A 20181005; EP 19783990 A 20190925; KR 20217013578 A 20190925; US 201917282513 A 20190925