

Title (en)
BIOMASS PRODUCTION

Title (de)
BIOMASSEHERSTELLUNG

Title (fr)
PRODUCTION DE BIOMASSE

Publication
EP 2673384 A4 20141015 (EN)

Application
EP 11858246 A 20111118

Priority

- US 201113022396 A 20110207
- CA 2738516 A 20110429
- CA 2011000574 W 20110518
- CA 2011001367 W 20111118

Abstract (en)
[origin: WO2012106796A1] A process of growing a phototrophic biomass in a reaction zone, including a reaction mixture that is operative for effecting photosynthesis upon exposure to photosynthetically active light radiation, is provided. The reaction mixture includes phototrophic biomass that is operative for growth within the reaction zone. In one aspect, the carbon dioxide supply is modulated in response to detected process parameters. In another aspect, inputs to the reaction zone are modulated based on changes to the carbon dioxide supply. In another aspect, dilution of the carbon dioxide-comprising supply is effected. In another aspect, pressure of the carbon dioxide-comprising supply is increased. In another aspect, water is condensed from the carbon dioxide-comprising supply and recovered for re-use. In another aspect, the produced phototrophic biomass is harvested at a rate which approximates a predetermined mass growth rate of the phototrophic biomass.

IPC 8 full level
A01G 33/00 (2006.01); **C12M 1/00** (2006.01); **C12M 1/04** (2006.01); **C12M 1/36** (2006.01); **C12M 1/42** (2006.01); **C12M 3/00** (2006.01); **C12N 1/00** (2006.01); **C12N 1/12** (2006.01); **C12N 13/00** (2006.01); **C12P 1/00** (2006.01); **C12Q 1/02** (2006.01); **C12Q 3/00** (2006.01)

CPC (source: EP)
A01G 33/00 (2013.01); **C12M 21/02** (2013.01); **C12M 41/36** (2013.01); **C12N 1/12** (2013.01)

Citation (search report)

- [A] WO 2010123943 A1 20101028 - PETROALGAE LLC [US], et al
- [A] ADITYA M. KUNJAPUR ET AL: "Photobioreactor Design for Commercial Biofuel Production from Microalgae", INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol. 49, no. 8, 21 April 2010 (2010-04-21), pages 3516 - 3526, XP055131467, ISSN: 0888-5885, DOI: 10.1021/ie901459u
- See references of WO 2012106796A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2012106796 A1 20120816; AU 2011358529 A1 20130829; CA 2826322 A1 20120816; CA 2826322 C 20220830; CN 103703149 A 20140402; CN 103703149 B 20160413; EP 2673384 A1 20131218; EP 2673384 A4 20141015; EP 3424306 A1 20190109; TW 201233321 A 20120816; TW 201737791 A 20171101; TW I609626 B 20180101; TW I692299 B 20200501

DOCDB simple family (application)
CA 2011001367 W 20111118; AU 2011358529 A 20111118; CA 2826322 A 20111118; CN 201180067005 A 20111118; EP 11858246 A 20111118; EP 18188304 A 20111118; TW 100142764 A 20111122; TW 106126815 A 20111122