

Title (en)
PROCESS AND DEVICE FOR CULTIVATING MICROALGAE IN A CLOSED CIRCUIT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR MIKROALGENZÜCHTUNG IN EINEM GESCHLOSSENEN KREISLAUF

Title (fr)
PROCEDE DE CULTURE DE MICROALGUES EN CIRCUIT FERME ET DISPOSITIF CORRESPONDANT

Publication
EP 0807163 A1 19971119 (EN)

Application
EP 95938002 A 19951207

Priority
• CH 28095 A 19950202
• IB 9501100 W 19951207

Abstract (en)
[origin: WO9623865A1] A process for carrying out on an industrial level the cultivation of microalgae is implemented in a hydraulic closed circuit: by causing a liquid containing the algae to circulate; by keeping the temperature of the liquid between two preset values; by introducing into the liquid the amounts of carbon dioxide and nutrients necessary for the algae's metabolism; by exposing the circulating liquid to the sun's rays in a specific transparent part of the closed circuit, so as to allow the algae to conduct chlorophyllic photosynthesis; by extracting the oxygen that is produced during the course of said process; by periodically separating from the circulating liquid the algae that are produced; finally, by extracting said algae from said hydraulic closed circuit.

IPC 1-7
C12M 1/00; **C12M 1/38**

IPC 8 full level
C12M 1/00 (2006.01); **C12M 1/04** (2006.01); **C12M 1/38** (2006.01); **C12N 1/12** (2006.01)

CPC (source: EP)
C12M 21/02 (2013.01); **C12M 23/06** (2013.01); **C12M 41/18** (2013.01); **C12M 41/40** (2013.01); **C12M 41/48** (2013.01); **C12N 1/12** (2013.01)

Citation (search report)
See references of WO 9623865A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9623865 A1 19960808; AU 3879995 A 19960821; CN 1175279 A 19980304; EP 0807163 A1 19971119; JP H11509402 A 19990824

DOCDB simple family (application)
IB 9501100 W 19951207; AU 3879995 A 19951207; CN 95197519 A 19951207; EP 95938002 A 19951207; JP 52336695 A 19951207