

Title (en)

A SYSTEM FOR PRODUCING ELECTRICITY FROM COMBUSTIBLE VEGETABLE OIL SELF-PRODUCED BY ALGAE GROWTH

Title (de)

SYSTEM ZUR ERZEUGUNG VON STROM AUS EINEM BRENNBAREN, DURCH ALGENWACHSTUM SELBSTPRODUZIERTEN PFLANZENÖL

Title (fr)

SYSTÈME DE PRODUCTION D'ÉLECTRICITÉ À PARTIR D'UNE HUILE VÉGÉTALE COMBUSTIBLE AUTOPRODUITE PAR LA CROISSANCE D'ALGUES

Publication

EP 2831217 A1 20150204 (EN)

Application

EP 13724384 A 20130329

Priority

- IT FI20120067 A 20120330
- IB 2013052543 W 20130329

Abstract (en)

[origin: WO2013144915A1] The system of the present invention is such as to exceed the limits of productivity and cost of the production of combustible oil from microalgae by means of a closed-loop, entirely modular system comprising regulation systems of the temperature and of the amount of light independently from the environment, fully installable inside existing industrial facilities, adapted to self-produce and the amount of light in a manner independent of the environment, CO₂ and hot water, adapted to integrate the process created so as to produce energy at a constant flow, to perform an effective treatment of the waste and to manage the controlled release of O₂, further adapted to be rapidly installed in sites without specific characteristics for example in the case of emergencies such as earthquakes and conflicts. The system of the present invention is further characterised by extremely low atmospheric emissions, for a use of limited amounts of water, net reduction of fertilisers with respect to common agricultural crops, production of oxygen and complete reuse of waste, which is also biodegradable.

IPC 8 full level

C12M 1/00 (2006.01)

CPC (source: EP)

C12M 21/02 (2013.01); **C12M 43/08** (2013.01)

Citation (search report)

See references of WO 2013144915A1

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 2013144915 A1 20131003; EP 2831217 A1 20150204; IT FI20120067 A1 20131001

DOCDB simple family (application)

IB 2013052543 W 20130329; EP 13724384 A 20130329; IT FI20120067 A 20120330