

Title (en)
CLOSED CIRCUIT PHOTOBIOREACTOR

Title (de)
PHOTOBIOREAKTOR MIT GESCHLOSSENEM KREISLAUF

Title (fr)
PHOTOBIOREACTEUR EN CIRCUIT FERME

Publication
EP 1002049 A1 20000524 (EN)

Application
EP 99919458 A 19990514

Priority
• IB 9900865 W 19990514
• IT MI981149 A 19980522

Abstract (en)
[origin: WO9961577A1] A system for the articulated culture of microorganisms (microalgae) with a high content of proteins, vitamins, pigments, and the like, at least comprising: m production modules each divided into at least two stages, each stage consisting of n tube nests (batteries of tubes) each with n tubes alternating with n' degassing modules (on line degassers), at each stage there being associated a tower acting as a temperature control means, the distribution of the n' on line degassers being differentiated in the sense of giving rise to exponentially variable gradients in the spacing between pairs of neighboring degassers (ni-1-ni), and means for the control and regulation of temperature, PH, concentration of dissolved oxygen, cell concentration and tube nest integrity, the said means being controlled by a central processing unit.

IPC 1-7
C12M 1/00; **C12M 1/36**; **A01G 33/00**; **B01D 19/00**

IPC 8 full level
C12M 1/00 (2006.01); **C12M 1/36** (2006.01)

CPC (source: EP)
C12M 21/02 (2013.01); **C12M 23/44** (2013.01); **C12M 29/20** (2013.01); **C12M 41/18** (2013.01)

Citation (search report)
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