

Title (en)

PHOTOBIOREACTOR, IN PARTICULAR FOR THE PRODUCTION OF MICROORGANISMS SUCH AS MICROALGAE

Title (de)

PHOTOBIOREAKTOR, INSBESONDERE ZUR PRODUKTION VON MIKROORGANISMEN WIE BEISPIELSGEWEISE MIKROALGEN

Title (fr)

PHOTOBIORÉACTEUR, EN PARTICULIER POUR LA PRODUCTION DE MICROORGANISMES TELS QUE DES MICROALGUES

Publication

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Application

EP 21798956 A 20211013

Priority

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Abstract (en)

[origin: WO2022079109A1] The invention relates to a photobioreactor (1), in particular for the production of microorganisms, the photobioreactor (1) being designed as a closed reactor which has a plurality of reactor containers (2) which are open at the top and are closed with a top wall (7) of the photobioreactor (1) and in which a nutrient medium can be held. According to the invention, at least a part of the reactor containers (2) are designed as individual containers, wherein mutually adjacent reactor containers (2) form a gap (13) between a front wall (3) and a rear wall (4), said gap being closed at the top side by an overflow wall region (12) and having a container overflow opening (16) between the adjacent reactor containers (2). A least one lighting element (29) is held in the gap (13). In addition, each of the reactor containers (2) contains a partition (6) which divides the reactor container (2) into a front reactor chamber (8) and a rear reactor chamber (9), wherein at least one partition through-flow opening (10) between the front and rear reactor chambers (8, 9) is provided in the partition (6) in the region close to the bottom wall. At least one or at least a part of the reactor containers (2) has at least one supply device (33), by which a CO₂-containing medium can be introduced from outside of the reactor container (2) into at least one reactor container (2), the CO₂-containing medium being a CO₂-containing gas or CO₂ obtained from a CO₂-containing gas. The invention further relates to a reactor container and a method.

IPC 8 full level

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