

Title (en)

METHOD AND DEVICE FOR AERATION, PARTICULARLY FOR MICROBIOLOGICAL FERMENTATION AND FOR CELL CULTIVATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BEGASEN, INSBESONDERE FÜR DIE MIKROBIOLOGISCHE FERMENTATION UND KULTIVIERUNG VON ZELLEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE GAZAGE, EN PARTICULIER POUR LA FERMENTATION MICROBIOLOGIQUE ET LA CULTURE DE CELLULES

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Application

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Abstract (en)

[origin: WO2008049617A1] The invention relates to a method and a device for aeration, particularly for microbiological fermentation and for cell cultivation in a closed chamber. The invention comprises a sterilizable reactor (1) and a vertical stirring shaft (2) with numerous aeration and/or stirring elements (10) which are attached thereto and arranged in multiple levels vertically. The aeration elements (15) are constructed to create such an aeration of the liquid in the reactor that the gases are evenly introduced into the liquid as micro bubbles. The invention also comprises recoil nozzles (20) connected to gas feed channels (11, 12, 14) for the purpose of driving the aeration and/or stirring elements (10) attached to the rotatably mounted stirring shaft (2). The result is a space-saving and absolutely hermetic construction of such a device.

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