

Title (en)
DEVICE AND METHOD FOR CULTIVATING CELLS IN A SHAKING OPERATION

Title (de)
VORRICHTUNG UND VERFAHREN ZUR KULTIVIERUNG VON ZELLEN IM SCHÜTTEL BETRIEB

Title (fr)
DISPOSITIF ET PROCÉDÉ DE CULTURE DE CELLULES DANS LE MODE D'AGITATION

Publication
EP 3794102 A1 20210324 (DE)

Application
EP 19724379 A 20190508

Priority
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Abstract (en)
[origin: WO2019219465A1] The problem addressed by the present invention is that of providing a device by means of which the cultivation of cells can take place during passive gassing in a shaking operation, together with optimal gas exchange 10 between the headspace gas phase 3 and the ambient gas phase 6 and optimal gas blending within the headspace 3. According to the invention, the problem is solved by means of a device for cultivating cells in a shaking operation, the claimed device comprising at least one gas exchange opening 4, the opening surface of which is not aligned in parallel with the movement vector 9 of the shaking movement. Owing to the shaking movement and the ambient gas phase 6 flowing around the outside of the device and the headspace gas phase 3 flowing around the inside of the device according to the invention, which flowing is associated with the shaking, the arrangement leads to the formation of a pressure gradient between the headspace gas phase 3 and the ambient gas phase 6, which pressure gradient changes depending on the shaking movement and advantageously influences the gas exchange between the headspace gas phase 3 and the ambient gas phase 6 and the gas blending within the headspace 3.

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