

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

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

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**

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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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