

Title (en)  
LARGE-SCALE BIOREACTOR

Title (de)  
GROSSBIOREAKTOR

Title (fr)  
BIORÉACTEUR À GRANDE ÉCHELLE

Publication  
**EP 3681365 A4 20210616 (EN)**

Application  
**EP 18852871 A 20180911**

Priority  
• US 201762556646 P 20170911  
• US 201862636039 P 20180227  
• US 2018050467 W 20180911

Abstract (en)  
[origin: WO2019051486A1] In an embodiment of the invention, there may be provided a bioreactor having tissue scaffolds and having culture medium perfused therethrough. There may be multiple independent culture chambers and reservoirs or sub-reservoirs. Sensors can provide for individually controlling conditions in various culture chambers, and various culture chambers can be operated differently or for different durations. It is possible to infer the number of cells or the progress toward confluence from the fluid resistance of the scaffold, based on flowrate and pressure drop. Harvesting may include any combination or sequence of; exposure to harvesting reagent; vibration; liquid flow that is steady, pulsatile or oscillating; passage of gas-liquid interface through the scaffold. Vibration and flow can be applied so as to reinforce each other.

IPC 8 full level  
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Citation (search report)  
• [X] CN 1560225 A 20050105 - UNIV HUADONG SCIENCE & ENG [CN]  
• [XA] US 2006110822 A1 20060525 - ROBBINS NEIL F [US], et al  
• [A] GB 2314343 A 19971224 - LIAU MING YI [TW]  
• [A] WO 2017143640 A1 20170831 - GUANGZHOU JET BIOFILTRATION CO LTD [CN]  
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• See references of WO 2019051486A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**WO 2019051486 A1 20190314**; CN 111132595 A 20200508; EP 3681365 A1 20200722; EP 3681365 A4 20210616

DOCDB simple family (application)  
**US 2018050467 W 20180911**; CN 201880059387 A 20180911; EP 18852871 A 20180911