

Title (en)
CULTURE VESSEL FOR GROWING OR CULTURING CELLS, CELLULAR AGGREGATES, TISSUES AND ORGANOIDS AND METHODS FOR USING SAME

Title (de)
KULTURGEFÄSS ZUR ZÜCHTUNG VON ZELLEN, ZELLULÄRE AGGREGATE, GEWEBE UND ORGANOIDE UND VERFAHREN ZU DEREN VERWENDUNG

Title (fr)
REACTEUR POUR LA CROISSANCE OU LA CULTURE DE CELLULES, D'AGREGATS CELLULAIRES, DE TISSUS ET D'ORGANOIDES, ET PROCÉDES D'UTILISATION CORRESPONDANTS

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Application
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Priority
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Abstract (en)
[origin: CA2385557A1] A bioreactor system (figure 4) for culturing cells, cellular aggregates, tissues and organoids and methods of using same includes a cylindrical react or vessel (10) having an unobstructed longitudinal axis that is rotated about that horizontal axis to suspend cells and/or tissue in a culture medium. Filters (36) are used within the vessel to retain the cells and/or tissues within the culture chamber (30) and may be also used to subdivide the culture chamber (30). A pump (3) maintains a flow of oxygen rich culture medium through the vessel (10) to sustain cell respiration. Several methods of operating the bioreactor system are disclosed wherein the vessel is used to culture cells, to grow three dimensional cellular aggregates and tissues, to filter waste materials and toxins from fluids, to commercially produce various biological materials from cells and/or tissue, and as a diagnostic or research tool.

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CPC (source: EP)
C12M 23/06 (2013.01); **C12M 27/10** (2013.01); **C12M 29/00** (2013.01)

Citation (search report)

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CN114931988A

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