

Title (en)

HIGH PERFORMANCE CELL CULTURE BIOREACTOR AND METHOD

Title (de)

HOCH AUFLÖSENDE ZELLKULTUR-BIOREAKTOR UND SEINE VERWENDUNG

Title (fr)

BIOREACTEUR A HAUTES PERFORMANCES POUR LA CULTURE DE CELLULES ET PROCEDE D'UTILISATION

Publication

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Application

EP 94915758 A 19940209

Priority

US 9402140 W 19940209

Abstract (en)

[origin: WO9521911A1] A high performance hollow fiber bioreactor having concentric hollow fiber bundles (22, 23) is disclosed. The central hollow fiber bundle (23) supplies culture medium while the outer hollow fiber bundle (22) supplies oxygen needed for cell culture. Methods for use of the high performance bioreactor include, for example, to expand stem cells ex vivo are described.

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IPC 8 full level

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CPC (source: EP)

C12M 23/24 (2013.01); **C12M 29/16** (2013.01); **C12M 35/08** (2013.01); **C12M 41/26** (2013.01)

Citation (search report)

- [Y] PATENT ABSTRACTS OF JAPAN vol. 013, no. 169 (C - 587) 21 April 1989 (1989-04-21)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 013, no. 546 (C - 661) 6 December 1989 (1989-12-06)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 013, no. 042 (C - 564) 30 January 1989 (1989-01-30)
- See references of WO 9521911A1

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