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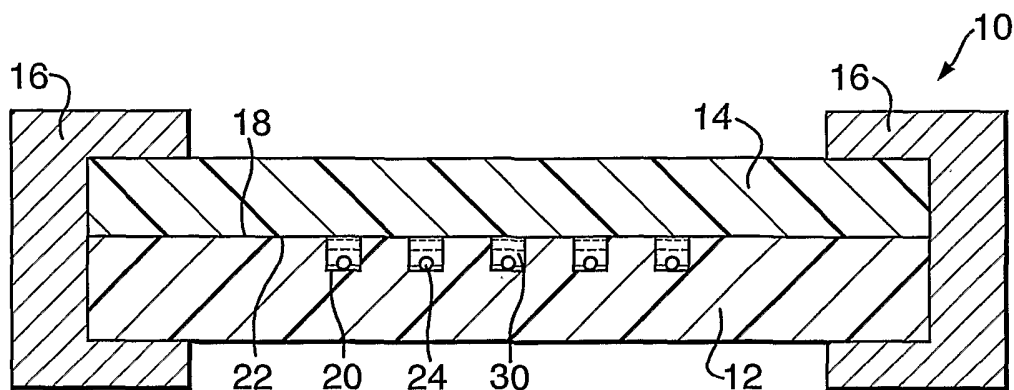
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(54) Title: CELLULAR ENTITY MATURATION AND TRANSPORTATION SYSTEMS



(57) Abstract: A device for transporting at least one cellular entity during culture or maturation, the device comprising a substrate having one or more wells, said one or more wells being adapted to hold a cellular entity in a fluid, lid means for preventing entry or exit of the cellular entity from the one or more wells and fluid transport means connecting the one or more wells to enable flow of fluid or diffusion of chemical species. The apparatus alternatively or in addition comprise a module for transporting a payload at a controlled temperature, the module comprising an outer housing, an outer thermally insulating region, an inner thermally insulating region, and a heat sinking region located between the inner and outer thermally insulating regions, the inner thermally insulating region defining a cavity for receiving a payload, and heating means.

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# INTERNATIONAL SEARCH REPORT

International application No  
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. C12M3/00      B01L3/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) C12M		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS, INSPEC		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/40437 A (NEXGENICS BIOSCIENCE CORP; THOMPSON, RONALD, J; CAMPBELL, MICHAEL, J) 7 June 2001 (2001-06-07) abstract page 7, line 14 - page 8, line 26 page 9, line 14 - page 10, line 2 page 11, lines 7-23 page 15, line 17 - page 16, line 31 page 19, line 17 - page 20, line 3 page 28, line 27 - page 29, line 11 page 33, line 27 - page 34, line 31 page 38, lines 1-29 ----- -/--	1,3-24
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		
<input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
'A' document defining the general state of the art which is not considered to be of particular relevance	'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.	
'O' document referring to an oral disclosure, use, exhibition or other means	'&' document member of the same patent family	
'P' document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search  <p style="text-align: center;">24 August 2006</p>	Date of mailing of the international search report  <p style="text-align: center;">04/10/2006</p>	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  <p style="text-align: center;">Montrone, M</p>	

## INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 101 18 905 A1 (EVOTEC OAI AG) 24 October 2002 (2002-10-24)  abstract paragraphs [0009] - [0016] paragraphs [0025], [0030], [0031] paragraphs [0044] - [0046], [0050] figures 1,2,5	1,3, 7-14,22, 23
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A	US 2002/068358 A1 (CAMPBELL MICHAEL J ET AL) 6 June 2002 (2002-06-06) abstract figures 1-11 paragraphs [0017] - [0045] paragraphs [0075] - [0087] paragraph [0093] paragraph [0137]	1,3-37
X	GB 2 383 122 A (DAWN YVONNE * LLOYD-DAVY) 18 June 2003 (2003-06-18) abstract page 2, line 3 - page 3, line 21	41-48
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International application No  
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/093740 A (BIOTISSUE TECHNOLOGIES AG; RINGLEB, OLIVER) 13 November 2003 (2003-11-13) abstract page 1, paragraph 4 - page 2, paragraph 5 page 3, paragraph 3 page 4, paragraph 1-5 page 5, paragraph 1-4 -----	38, 41-45, 47-54
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T	DE 20 2005 006388 U1 (AFP AGENTUR PRINT MEDIEN E K [DE]) 21 July 2005 (2005-07-21) abstract page 2, paragraph 3-12 -----	38, 41-44, 47-49

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1, 3-54
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(complete), 3-37(all partially)

Device for culturing maturing cellular entities comprising a substrate having one or more wells, a lid means releaseably securable to the substrate, a source of a fluid and fluid transport means.

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2. claims: 2(complete), 3-37(all partially)

Device for transporting at least one cellular entity comprising a substrate having one or more wells, a lid means releaseably securable to the substrate and fluid transport means.

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3. claims: 38-54

A transport module for transporting a payload at controlled temperatures comprising an outer housing, an outer thermally insulated region, an inner thermally insulating region and a heat sinking region located between the inner and outer thermally insulating regions, the inner thermally insulating region defining a cavity for receiving the payload.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2006/000972

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