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[Continued on next page]

(54) Title: SCAFFOLDS FOR CELL TRANSPLANTATION

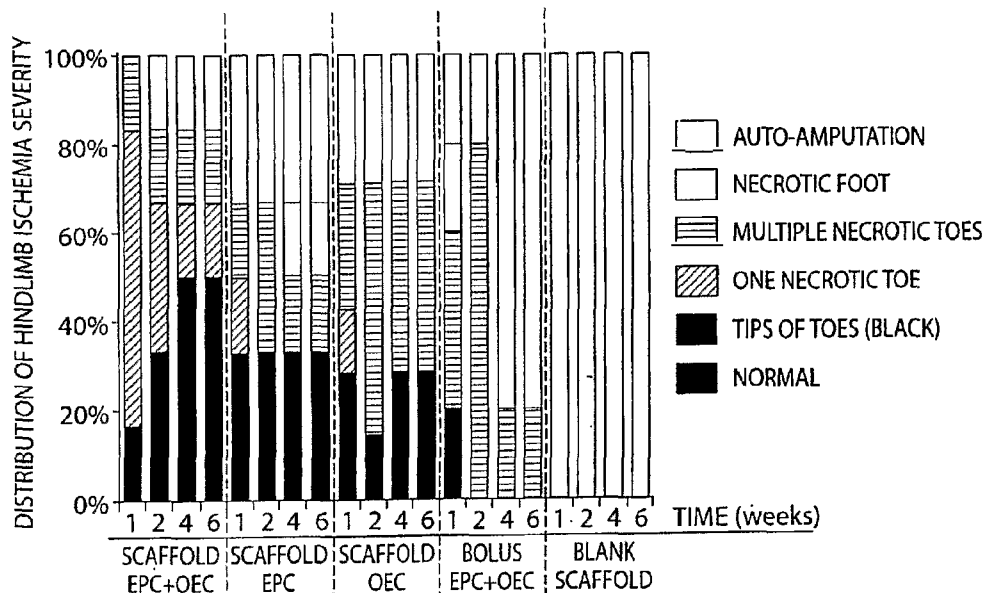


Fig. 13D

(57) Abstract: A device that includes a scaffold composition and a bioactive composition with the bioactive composition being incorporated into or coated onto the scaffold composition such that the scaffold composition and/or a bioactive composition controls egress of a resident cell or progeny thereof. The devices mediate active recruitment, modification, and release of host cells from the material.

WO 2007/070660 A3



GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, ZA, ZM, ZW.

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INTERNATIONAL SEARCH REPORT

International application No PCT/US2006/047823
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A. CLASSIFICATION OF SUBJECT MATTER

INV. **A61L27/22** **A61L27/36** **A61L27/38** **A61L27/54** **A61L27/56**
A61L27/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. REIDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61L

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** , **EMBASE** , **BIOSIS**

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2004/063206 A1 (ROWLEY JON A [US] ET AL) 1 April. 2004 (2004-04-01) page 1 , paragraph 8 page 2 , paragraph 9-12 page 2 , paragraphs 20,21 page 6 ; example 8 -----	1-3,5-9, 13-15,17
X	US 2005/106211 A1 (NELSON KEVIN [US] ET AL) 19 May 2005 (2005-05-19) page 1 , paragraph 11 page 2 , paragraph 12 page 3 , paragraphs 21,24,26 page 5 , paragraphs 50,51,53,54 page 6 , paragraph 58 ----- -/--	1-3,5-9, 13,14, 16,17

Further documents are listed in the continuation of Box C.

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
- "E" earlier document but published on or after the international filing date
- "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)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "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
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "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.
- "&" document member of the same patent family

Date of the actual completion of the international search

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11/06/2008

Name and mailing address of the ISA/

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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	EP 1 452 191 A (ETHICON INC [US]) 1 September 2004 (2004-09-01) page 3, paragraph 10 page 4, paragraph 14-16 figure 12	1-3, 13, 14, 16, 17
X	----- US 2003/095994 AI (GEISTLICH PETER [CH] ET AL) 22 May 2003 (2003-05-22) claims 1,7, 19 page 2, paragraphs 17, 19 pages 2-3, paragraph 29 page 3, paragraphs 32,33	1,2, 4-10, 13-15, 17, 18
X	----- EP 0 562 862 A (JOHNSON & JOHNSON MEDICAL [US]) 29 September 1993 (1993-09-29) column 1, lines 1-13 column 2, lines 39-51 column 4, lines 1-6 column 4, lines 17-29 column 5, lines 1-9 column 5, lines 55-57	1-6,9, 10, 13, 16-18
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X	----- BARBERO A. ET AL: "Growth Factor Supplemented Matrigel Improves Ectopic Skeletal Muscle Formation - A Cell Therapy Approach" JOURNAL OF CELLULAR PHYSIOLOGY, vol . 186, 2001 , pages 186-192, XP002471952 page 184; sequence INTRODUCTION page 184 - page 185; sequence MATERIALS AND METHODS ----- -/--	1-25

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/047823

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category-	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	<p>CHEN R.R. AND MOONEY D.J.: "Polymeric Growth Factor Delivery Strategies for Tissue Engineering" PHARMACEUTICAL RESEARCH, vol. 20, no. 8, 2003, pages 1103-1112, XP002471949 the whole document</p> <p>-----</p>	1-25
A	<p>SKUL D. AND TREMBLAY J.P.: "Myoblast transplantation: the current status of a potential therapeutic tool for myopathies" JOURNAL OF MUSCLE RESEARCH AND CELL MOTILITY, vol. 24, 2003, pages 285-300, XP002471950 the whole document</p> <p>-----</p>	1-25
L	<p>HILL E., BOONTHEEKUL T. AND MOONEY D.J.: "Designing Scaffolds to Enhance Transplanted Myoblast Survival and Migration" TISSUE ENGINEERING, vol. 12, no. 5, 2006, page 1295, XP002471951 the whole document</p> <p>-----</p>	1-25
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A	<p>KUMAMOTO T. ET AL: "Induction of tumor-specific protective immunity by in situ Langerhans cell vaccine." NATURE BIOTECHNOLOGY, vol. 20, 2002, pages 64-69, XP002481646 the whole document</p> <p>-----</p>	23-25

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 21 to 25 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.

Continuation of Box II.I

Claims Nos. : -

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/047823

Box No. 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:

see FURTHER INFORMATION sheet PCT/ISA/210

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 No. 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:

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable
1 Claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

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.:

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 and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2006/047823
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