



(51) International Patent Classification:

A61F 2/14 (2006.01) A61L 27/38 (2006.01)
A61F 2/76 (2006.01)

(21) International Application Number:

PCT/US2012/035671

(22) International Filing Date:

27 April 2012 (27.04.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/481,107 29 April 2011 (29.04.2011) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, 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, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

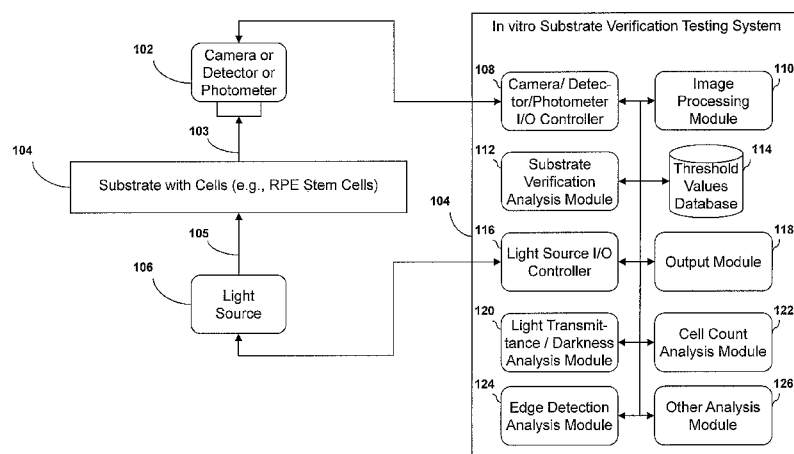
— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

21 March 2013

(54) Title: SYSTEMS AND METHODS FOR IN VITRO AND IN VIVO IMAGING OF CELLS ON A SUBSTRATE

FIG. 1



(57) Abstract: Disclosed herein are generally to methods and systems that facilitate imaging of cells on a substrate and more particularly to pre-implantation (in vitro) and post-implantation (in vivo) imaging of cell-seeded substrates implanted in target tissues in the context of stem cell therapy.

A. CLASSIFICATION OF SUBJECT MATTER**A61F 2/14(2006.01)i, A61F 2/76(2006.01)i, A61L 27/38(2006.01)i**

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61F 2/14; A61M 31/00; G06F 15/42; B65D 85/00; G01N 33/48; A61B 5/026; A61K 51/00; G06K 9/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: stem cell derived RPE cell, detection, light source, light transmittance, substrate, pre-stored threshold, pigmentation, in vitro, in vivo, two-dimensional image, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0189338 A1 (BO LIN et al.) 29 July 2010 See the whole document.	1-100
A	US 2007-0106208 A1 (ARTHUR E. UBER III et al.) 10 May 2007 See the whole document.	1-100
A	US 2003-0231791 A1 (JOSE DE LA TORRE-BUENO and JAMES MCBRIDE) 18 December 2003 See the whole document.	1-100
A	US 04700298 A (BRANKO PALCIC et al.) 13 October 1987 See the whole document.	1-100
A	US 2011-0060232 A1 (CHARLES P. LIN et al.) 10 March 2011 See the whole document.	1-100



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

22 NOVEMBER 2012 (22.11.2012)

Date of mailing of the international search report

23 NOVEMBER 2012 (23.11.2012)

Name and mailing address of the ISA/KR

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Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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