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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4536458

| SUBMISSION TYPE: | | NEW ASSIGNMENT | | |
|--|--|---|----------------|--|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | ASSIGNMENT | |
| CONVEYING PARTY D | ΑΤΑ | | | |
| | | Name | Execution Date | |
| WILLIAM DUNBAR | | | 07/21/2017 | |
| JUNGSUK KIM | | | 07/24/2017 | |
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| Postal Code: | 94607-5 | 94607-5200 | | |
| | | Number | | |
| | | Number | | |
| PROPERTY NUMBERS Property Type Application Number: | | Number 14556134 | | |
| Property Type | | | | |
| Property Type Application Number: | 1 | | | |
| Property Type Application Number: CORRESPONDENCE I Fax Number: | DATA (| (415)752-4085 | | |
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| Property Type Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will &</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: | DATA (be sent to provided; 4 2 4 5 | (415)752-4085 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> 4157524085 abell@bell-iplaw.com ADAM BELL 58 WEST PORTAL AVENUE | t via US Mail. | |
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| Property Type Application Number: CORRESPONDENCE I Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: | DATA (be sent to provided; 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | (415)752-4085 the e-mail address first; if that is unsu ; if that is unsuccessful, it will be sent 4157524085 abell@bell-iplaw.com ADAM BELL 58 WEST PORTAL AVENUE NO. 121 SAN FRANCISCO, CALIFORNIA 94127 SC2011_366_CON | t via US Mail. | |
| Property Type Application Number: CORRESPONDENCE I Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: | DATA (be sent to provided; 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | (415)752-4085 the e-mail address first; if that is unsu ; if that is unsuccessful, it will be sent 4157524085 abell@bell-iplaw.com ADAM BELL 58 WEST PORTAL AVENUE NO. 121 SAN FRANCISCO, CALIFORNIA 94127 SC2011_366_CON ADAM BELL | t via US Mail. | |

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PATENT REEL: 043202 FRAME: 0108

| ASSIGNMENT & | Attorney Docket No. | SC2011_366_CON |
|--|------------------------------|--------------------|
| DECLARATION | First Named Inventor | Dr. William Dunbar |
| | Application Number | 14/556,134 |
| | U.S. National Filing Date | 29 November 2014 |
| | Conf. No. | 6823 |
| | Title | DUAL-PORE DEVICE |
| IMPORTANT: this document must | Group Art Unit | 1756 |
| be signed by all assignces and the assignor. | PARENT Application Number | 13/882,191 |
| assignat. | Priority date / application | 20 July 2011 |
| | Customer No. | 39843 |

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

1. William Dunbar

2. Jungsuk Kim

3. n/a

4. n/a

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin Street, Twelfth Floor, Oakland, CA 94607-5200, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all inventions and improvements which are disclosed in the application(s) / patent(s) detailed above, and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby agrees that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further agrees that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, post grant review, inter partes review, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE.

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Additional statements in the form of a Declaration for Utility or Design Patent Application (37 CFR 1.63) including statements from pre-AIA and post-AIA declarations.

As a below named inventor, I hereby declare that

IT This declaration is directed to the above-identified application.

I The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

 \overrightarrow{D} I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

 \boxtimes I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

 \blacksquare I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

IMPORTANTLY, The ASSIGNOR(S) and the ASSIGNEE agree that the terms of the UC Patent Policy will apply to this Assignment. Please do not sign this document unless you feel comfortable that you understand your rights and obligations under the UC Patent Policy. If you have any questions, please seek assistance from a UC officer who will be happy to explain the UC Patent Policy.

ASSIGNOR(S)

1. ASSIGNOR NAME: William Dunbar

Residence city / state / country: Santa Cruz, CA, USA

🕶 Citizenship: 🗌 🗎 🤇 T Date: 🕶 Signature

2. ASSIGNOR NAME: Jungsuk Kim

Residence city / state / country: Santa Cruz, CA, USA

☞ Citizenship; - ohea Date: 129,2019 mm 2 🅶 Signature:

2 of 2

PATENT REEL: 043202 FRAME: 0110

V.

ASSIGNEE (Signed Under Article 72 of the EPC amended 1 November 2016 requiring that "An assignment of a European patent application shall be made in writing and shall require the signature of the parties to the contract.")

Name of signatory: JEFFREY M. ACKSON

Name of Assignee entity (e.g., company/university): The Regents of the University of California

■ Position / Authority to sign: DIRECTOR OF INTELLECTUAL PROPERTY MANAGEMENT UC SANTA CRUZ

Thate: 241 Luter/ 2017 🏾 Signature:

ALL THE ABOVE INFORMATION IS REQUIRED EVERY INVENTOR MAY SIGN A SEPARATE COPY IF NEEDED

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RECORDED: 08/04/2017