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| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.                              |  |   |   |          |                                      |         |                  |  |
|  |  |   | Name and Address of receiving party(ies): |          |                                      |         |                  |  |
| 1. Sonia E. Letant   |  | † ·   | <b>9</b> F - <b>9</b> (                   |          |                                      |         |                  |  |
|  | hony Van Buuren  | The Regents of the University of California |   |          |                                      |         |                  |  |
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| 7.12.04  |  |   | Caniana, 6/1 64612 6666                   |          |                                      |         |                  |  |
| Attorney   | Attorney Docket No.: IL-11364  |   |   |          |                                      |         |                  |  |
| 3. Natu  | re of conveyance:  |   |   |          |                                      |         | *****            |  |
| <b>.</b>   | Assignment   | Execu                                       | ution I                                   | Date:    | 4/28/2004                            | 2       |                  |  |
|  | cation number(s) or patent num   |   | IL-11                                     | 364      |                                      |         |                  |  |
|  | document is being filed together with a sation, the execution date of the application. |   |   |          |                                      | :       | 2                |  |
| аррис  | action, the excounter date of the approx   | <u>ution 10.</u>                            |   |          | <del></del>                          |         | JUL 12 M 7:      |  |
|  | A. Patent Application No.(s)   |   |   |          | B. Patent No.                        | (s)     | •                |  |
| 10/000 570 511 1 //07/000/   |  |   |   |          |                                      |         | 22               |  |
| 10/833,573 filed 4/27/2004   |  |   |   |          |                                      |         |                  |  |
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|  | and address of party to whom corresponing document should be mailed:                   | ondence                                     | 6. To                                     | otal Num | nber of applications a<br><u>ONE</u> | ind pat | tents involved:  |  |
| Name:  | Ann M. Lee   |   | 7. T                                      | otal fe  | е                                    | \$      | 40.00            |  |
| Address: Lawrence Livermore Nat. Laborator Patent Group, L-703   |  | ratory                                      |   | Enclo    | sed                                  |         |                  |  |
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> PATENT REEL: 015558 FRAME: 0681

## **ASSIGNMENT**

| LLNL   | Case No.: <u>IL-11364</u>   |         |                                       |  |  |  |  |  |
|--|---|---------|---------------------------------------|--|--|--|--|--|
| For go   | ood and valuable consideration the receipt o  | of whic | ch is hereby acknowledged ASSIGNOR(s) |  |  |  |  |  |
| 1. <u>S</u>  | onia E. Letant  | 2.      | Anthony Van Buuren                    |  |  |  |  |  |
| 3. <u>A</u>  | nthony Van Buuren   | 4.      | Louis Terminello                      |  |  |  |  |  |
| 5. <u>B</u>  | radley R. Hart  | 6.      |                                       |  |  |  |  |  |
| 7  |   | 8.      |                                       |  |  |  |  |  |
| 9  |   | 10.     |                                       |  |  |  |  |  |
| hereby sells, assigns and transfers to ASSIGNEE, the Regents of the University of California, a California Corporation, having its statewide administrative offices located at 1111 Franklin Street, Oakland, California 94607-5200, and the successors, assigns and legal representative 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 improvements which are disclosed in the invention entitled:   |   |         |                                       |  |  |  |  |  |
| Target Molecules Detection by Waveguiding in a Photonic Silicon Membrane   |   |         |                                       |  |  |  |  |  |
| and which is found in  |   |         |                                       |  |  |  |  |  |
| O  | U.S. patent application executed on, entitled as above and listing the above named persons as inventors |         |                                       |  |  |  |  |  |
|  | U.S. patent application serial no. 10/833 573 , filed on 4/27/04/                                       |         |                                       |  |  |  |  |  |
|  | U. S. patent no, , issued   |         |                                       |  |  |  |  |  |
| 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 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;  |   |         |                                       |  |  |  |  |  |
| <u>ASSIGNOR(S)</u> hereby covenants 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 covenants 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, 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 <u>ASSIGNOR(S)</u> 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, the Regents of the University of California.  |   |         |                                       |  |  |  |  |  |
| execu  | uted this   | ;       | Signature of Inventor(s)              |  |  |  |  |  |
| 04-24- 2004<br>Date  |   | _       |                                       |  |  |  |  |  |
|  | Date  | -       | Sonia E. Letant                       |  |  |  |  |  |

| executed this    | Signature of Inventor(s) |
|------------------|--------------------------|
| 04/27/04<br>Date | Anthony Van Buuren       |
| +\28\04<br>Date  | Louis Terminello         |
| 4/28/04<br>Date  | Bradley R. Hart          |
| Date             |                          |
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