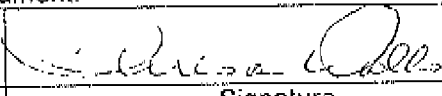


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|--|--|---|---|---|-------|
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| 1. Name of conveying party(ies):   |  |   | 2. Name and Address of receiving party(ies):  |   |       |
| 1. Stephen P. Vernon<br>2. Tiziana C. Bond<br>3. Steven W. Bond<br>4. Michael Pocha<br>5. Stefan Hau-Riege   |  |   | The Regents of the University of California<br>1111 Franklin Street<br>Oakland, CA 94612-3550 |   |       |
| Attorney Docket No.: IL-11011  |  |   |   |   |       |
| 3. Nature of conveyance:   |  |   |   |   |       |
| <input checked="" type="checkbox"/> Assignment   |  | Execution Date:   |   | 10/1/2003   |       |
| 4. Application number(s) or patent number(s): IL-11011   |  |   |   |   |       |
| If this document is being filed together with a new application, the execution date of the application is:   |  |   |   |   |       |
| A. Patent Application No.(s)<br><br>10/676,876 filed 9/30/2003   |  |   | B. Patent No.(s)  |   |       |
| 5. Name and address of party to whom correspondence concerning document should be mailed:  |  |   | 6. Total Number of applications and patents involved:<br><u>ONE</u>                           |   |       |
| Name: James S. Tak   |  | 7. Total fee  |   | \$  | 40.00 |
| Address: Lawrence Livermore Nat. Laboratory<br>Patent Group, L-703   |  | <input type="checkbox"/> Enclosed   |   | <input checked="" type="checkbox"/> Authorized charge deposit account |       |
| 7000 East Avenue<br>Livermore, CA 94550  |  | 8. Deposit Account number:  |   | 12-0695   |       |
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| 9. Statement and Signature   |  |   |   |   |       |
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| Teresa Walls   |  |  |   | 10/12/04  |       |
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CH \$40.00 120695 10676876

**ASSIGNMENT**LLNL Case No.: IL-11011

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

- |                            |                           |
|----------------------------|---------------------------|
| 1. <u>Stephen Vernon</u>   | 2. <u>Tiziana C. Bond</u> |
| 3. <u>Steven W. Bond</u>   | 4. <u>Michael Pocha</u>   |
| 5. <u>Stefan Hau-Riege</u> | 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:

Direct-Patterned Optical Waveguides on Amorphous Silicon Films

and which is found in

- ☒ U.S. patent application executed on 10-1-2003, entitled as above and listing the above named persons as inventors
- ☒ U.S. patent application serial no. 10/676,876, filed on 9/30/2003
- ☐ 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;

ASSIGNOR(S) 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 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, the Regents of the University of California.

executed this

Signature of Inventor(s)

09/30/2003  
DateStephen P. Vernon  
Stephen P. Vernon

executed this

10/01/03

Date

Signature of Inventor

*Tiziana C. Bond*

Tiziana C. Bond

9/30/03

Date

*Steven W. Bond*

Steven W. Bond

9/30/03

Date

*M. D. Pocha*

Michael Pocha

9/30/03

Date

*Stefan Hau-Riege*

Stefan Hau-Riege

Date

Date

Date

Date

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IL-11011