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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>1. Name of conveying party(ies)</b><br>Heinrich G. Muller<br><br>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                           |  | <b>2. Name and address of receiving party(ies)</b><br>Name: <u>The Aerospace Corporation</u><br><br>Internal Address: _____<br><br>Street Address: <u>2350 E. El Segundo Boulevard</u><br><br>Mail Stop <u>M1/040</u><br><br>City: <u>El Segundo</u><br><br>State: <u>CA</u><br><br>Country: <u>United States</u> Zip: <u>90245</u><br>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |
| <b>3. Nature of conveyance/Execution Date(s):</b><br>Execution Date(s) <u>11/18/2004</u><br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Joint Research Agreement<br><input type="checkbox"/> Government Interest Assignment<br><input type="checkbox"/> Executive Order 9424, Confirmatory License<br><input type="checkbox"/> Other _____                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application.<br>A. Patent Application No.(s) <u>10/999,885</u><br>B. Patent No.(s) <u>7,099,074</u><br><br>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>5. Name and address to whom correspondence concerning document should be mailed:</b><br><br>Name: <u>Carole A. Mulchinski</u><br><u>The Aerospace Corporation</u><br>Internal Address: <u>General Counsel's Office</u><br><br>Street Address: <u>2350 E. El Segundo Boulevard</u><br><u>Mail Stop M1/040</u><br>City: <u>El Segundo</u><br>State: <u>California</u> Zip: <u>90245</u><br>Phone Number: <u>310-336-6709</u><br>Fax Number: <u>310-336-0285</u><br>Email Address: <u>carole.a.mulchinski@aero.org</u> |  | <b>6. Total number of applications and patents involved:</b> <u>1</u><br><br><b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>40.00</u><br><input checked="" type="checkbox"/> Authorized to be charged to deposit account<br><input type="checkbox"/> Enclosed<br><input type="checkbox"/> None required (government interest not affecting title)                                                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>8. Payment Information</b><br><br>Deposit Account Number <u>01-0428</u><br><br>Authorized User Name <u>Derrick Michael Reid</u>                                                                                                                                                                                                                                                                                                                    |  |
| <b>9. Signature:</b> <u>Derrick Michael Reid</u><br>_____<br>Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | December 7, 2008<br>_____<br>Date                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| <u>Derrick Michael Reid</u><br>_____<br>Name of Person Signing                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px;">3</span>                                                                                                                                                                                                                                                                                                                |  |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## ASSIGNMENT OF PATENT RIGHTS OF AN INVENTION

FOR U.S. Rights and Foreign Rights for a U.S. Patent Application

First Named Inventor: Heinrich G. Muller Attorney Docket Number: B529.Title: Side-pumping Laser and Optical Fiber System.

WHEREAS: In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

THE ASSIGNOR(S):

1st Named Inventor: Heinrich G. Muller  
Street Address: 5519 Bayridge Road  
City, State, Zip, USA: Rancho Palos Verdes, CA 90275

HEREBY sells, assigns, grants, and transfers unto the ASSIGNEE: The Aerospace Corporation, MI/040, 2350 East El Segundo Boulevard, El Segundo, CA 90245, USA, and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title, and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above entitled invention, and which is found in (37 C.F.R. Section 3.21) U.S. patent application executed herewith 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, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR 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 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 related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and 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.

Date: 11/18/04 Signature: Heinrich Muller

1st Named Inventor's Name: Heinrich G. Muller

