**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

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<tr>
<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
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<td>NATURE OF CONVEYANCE:</td>
<td>ASSIGNMENT</td>
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**CONVEYING PARTY DATA**

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<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Mark S. Bowers</td>
<td>09/22/2008</td>
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<tr>
<td>Dennis D. Lowenthal</td>
<td>09/21/2008</td>
</tr>
<tr>
<td>Jason N. Farmer</td>
<td>09/19/2008</td>
</tr>
<tr>
<td>Roy D. Mead</td>
<td>09/22/2008</td>
</tr>
<tr>
<td>Charles I. Miyake</td>
<td>09/22/2008</td>
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**RECEIVING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>Lockheed Martin Corporation</th>
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<tr>
<td>Street Address</td>
<td>6801 Rockledge Drive</td>
</tr>
<tr>
<td>City</td>
<td>Bethesda</td>
</tr>
<tr>
<td>State/Country</td>
<td>MARYLAND</td>
</tr>
<tr>
<td>Postal Code</td>
<td>20817</td>
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**PROPERTY NUMBERS Total: 1**

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<tr>
<td>Patent Number</td>
<td>6832024</td>
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**CORRESPONDENCE DATA**

Fax Number: (952)435-0299  
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: (952) 435-0200  
Email: GLemaire@LPatent.com  
Correspondent Name: Lemaire Patent Law Firm, P.L.L.C.
Address Line 1: P.O. Box 1818  
Address Line 4: Burnsville, MINNESOTA 55337

**ATTORNEY DOCKET NUMBER:** 5032.037US14

**NAME OF SUBMITTER:** Gregory A. Lemaire
ASSIGNMENT

WHEREAS, We,

David C. Gerstenberger, residing at 13023 N.E. 182nd Place, Unit #B, Bothell, Washington 98011, and
Mark S. Bowers, residing at 19609 9th Drive S.E., Bothell, Washington 98012, and
Dennis D. Lowenthal, residing at 1007 Bell Street, Edmonds, Washington 98020, and
Jason N. Farmer, residing at 200 E. 38th Street, Vancouver, Washington 98663; and
Roy D. Mead, residing at 752 Walnut Street, Edmonds, Washington 98020, and
Charles I. Miyake, residing at 6416 106th Avenue N.E., Kirkland, Washington 98033,

made certain new and useful inventions and improvements for which we filed an application for
Letters Patent of the United States on November 19, 2001, which application was assigned
U.S. Patent Application Serial Number 10/042,943, and issued as U.S. Patent Number 6,832,024 on
December 14, 2004, and is entitled

"METHOD AND APPARATUS FOR FIBER BRAGG GRATING PRODUCTION"

AND WHEREAS, Lockheed Martin Corporation, a corporation organized and existing
under and by virtue of the laws of the State of Maryland, and having an office and place of business
at 6801 Rockledge Drive, Bethesda, MD 20817-1877 (hereinafter “Assignee”), is desirous of
acquiring the entire right, title and interest in and to said inventions, improvements and application
and in and to the Letters Patent obtained and to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and
valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have
sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said
Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all
inventions and improvements disclosed in the aforesaid application, and in and to the said
application, all divisions, continuations, continuations-in-part, or renewals thereof; all Letters
Patent which have been or may be granted there from, including specifically U.S. Patent Number
6,832,024, and all reissues or extensions of such patents, and in and to any and all applications
which have been or shall be filed in any foreign countries for Letters Patent on the said
inventions and improvements, including an assignment of all rights under the provisions of the
International Convention, and all Letters Patent of foreign countries which may be granted there
from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to
issue any and all United States Letters Patent for the aforesaid inventions and improvements to
the said Assignee as the assignee of the entire right, title and interest in and to the same, for the
use of the said Assignee, its successors and assigns.
AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of ____________, 2008.

__________________________________________
David C. Gerstenberger

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of Sept., 2008.

Mark S. Bowers

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21st day of Sept., 2008.

Dennis D. Lowenthal

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of ____________, 2008.

__________________________________________
Jason N. Farmer

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of September, 2008.

Roy D. Mead

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of Sept., 2008.

Charles I. Miyake
AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this ______ day of _____________, 2008.

________________________________________
David C. Gerstenberger

IN TESTIMONY WHEREOF, I have hereunto set my hand this ______ day of _____________, 2008.

________________________________________
Mark S. Bowers

IN TESTIMONY WHEREOF, I have hereunto set my hand this ______ day of _____________, 2008.

________________________________________
Dennis D. Lowenthal

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19th day of September, 2008.

________________________________________
Jason N. Farmer

IN TESTIMONY WHEREOF, I have hereunto set my hand this ______ day of _____________, 2008.

________________________________________
Roy D. Mead

IN TESTIMONY WHEREOF, I have hereunto set my hand this ______ day of _____________, 2008.

________________________________________
Charles I. Miyake