

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Matthias P. Savage-Leuchs</td><td>04/12/2011</td></tr><tr><td>Christian E. Dilley</td><td>04/12/2011</td></tr></tbody></table>	Name	Execution Date	Matthias P. Savage-Leuchs	04/12/2011	Christian E. Dilley	04/12/2011	
Name	Execution Date						
Matthias P. Savage-Leuchs	04/12/2011						
Christian E. Dilley	04/12/2011						
RECEIVING PARTY DATA							
Name:	Lockheed Martin Corporation						
Street Address:	6801 Rockledge Drive						
City:	Bethesda						
State/Country:	MARYLAND						
Postal Code:	20817						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13085462</td></tr></tbody></table>	Property Type	Number	Application Number:	13085462			
Property Type	Number						
Application Number:	13085462						
CORRESPONDENCE DATA							
Fax Number: (952)435-0299 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	5032.055US1						
NAME OF SUBMITTER:	Gregory A. Lemaire						
Total Attachments: 5 source=5032.055us1 signed Assignment#page1.tif source=5032.055us1 signed Assignment#page2.tif source=efilingAck9855159#page1.tif source=efilingAck9855159#page2.tif source=efilingAck9855159#page3.tif							

CH \$40.00 13085462

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PATENT
REEL: 026132 FRAME: 0516

ASSIGNMENT

WHEREAS, we,

Matthias P. Savage-Leuchs, residing at 17621 N.E. 160th Street, Woodinville, Washington 98072, and
Christian E. Dilley, residing at 4929 153rd Place SE, Everett, Washington 98208,
made certain new and useful inventions and improvements for which we are filing an application
for Letters Patent of the United States, which application claims benefit of U.S. Provisional Patent
Application No. 61/343,948 filed on April 12, 2010, and is entitled

**“SIGNAL AND PUMP MODE-FIELD ADAPTOR FOR DOUBLE-CLAD FIBERS
AND ASSOCIATED METHOD”;**

and for which we filed an international patent application under the Patent Cooperation Treaty
(PCT) on April 9, 2011, which application was assigned PCT Application Serial Number
PCT/US2011/031863, and is entitled

**“SIGNAL AND PUMP MODE-FIELD ADAPTOR FOR DOUBLE-CLAD FIBERS
AND ASSOCIATED METHOD”;**

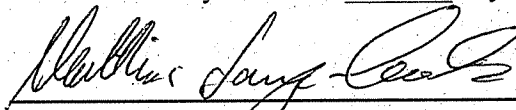
AND WHEREAS, **Lockheed Martin Corporation**, a corporation organized and existing
under and by virtue of the laws of the State of Maryland, and having an office and place of business
at 6801 Rockledge Drive, Bethesda, Maryland 20817 (hereinafter “Assignee”), is desirous of
acquiring the entire right, title and interest in and to said inventions, improvements and application
and in and to the Letters Patent 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 applications, and in and to the said
applications, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters
Patent which may be granted there from, 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.

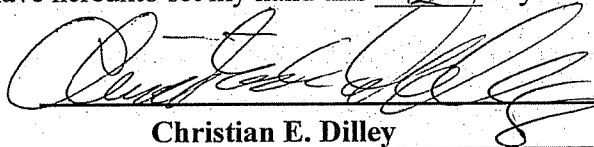
AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed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

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April 2011.



Matthias P. Savage-Leuchs

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April 2011.



Christian E. Dilley

Electronic Acknowledgement Receipt

EFS ID:	9855159
Application Number:	13085462
International Application Number:	
Confirmation Number:	2182
Title of Invention:	SIGNAL AND PUMP MODE-FIELD ADAPTOR FOR DOUBLE-CLAD FIBERS AND ASSOCIATED METHOD
First Named Inventor/Applicant Name:	Matthias P. Savage-Leuchs
Customer Number:	84623
Filer:	Charles Arthur Lemaire/Gregory A. Lemaire
Filer Authorized By:	Charles Arthur Lemaire
Attorney Docket Number:	5032.055US1
Receipt Date:	12-APR-2011
Filing Date:	
Time Stamp:	22:48:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1090
RAM confirmation Number	7196
Deposit Account	502931
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

PATENT
REEL: 026132 FRAME: 0519

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		5032-055us1_specification_mode-field-adapt.pdf	209311	yes	42
			912ebcf7a1d95b7e25ad64aadbbe720081fc0aab		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	33	
	Claims		34	41	
	Abstract		42	42	
Warnings:					
Information:					
2	Application Data Sheet	5032-055us1_US_ADS_Form_S B_14.pdf	1071304	no	4
			bc28812e0e066f99b7425fb61d5f88f76f35293b		
Warnings:					
Information:					
3	Oath or Declaration filed	5032-055us1_signed_Declaration.pdf	430365	no	3
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Warnings:					
Information:					
4	Drawings-only black and white line drawings	5032-055us1_figures_mode-field-adapt_portrait.pdf	253636	no	12
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Information:					
5		5032-055us1_Preliminary_Amendment.pdf	63643	yes	10
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Claims		2	9	
	Applicant Arguments/Remarks Made in an Amendment		10	10	
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Information:					
6	Fee Worksheet (PTO-875)	fee-info.pdf	32857	no	2
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Warnings:					
Information:					
			Total Files Size (in bytes):	2061116	
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