

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Yongdan Hu	11/05/2010
Eric C. Eisenberg	11/05/2010
Aleksandra Shepsis	11/05/2010
RECEIVING PARTY DATA	
Name:	Lockheed Martin Corporation
Street Address:	6801 Rockledge Drive
City:	Bethesda
State/Country:	MARYLAND
Postal Code:	20817
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12953292
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ATTORNEY DOCKET NUMBER:	5032.058US1
NAME OF SUBMITTER:	Gregory A. Lemaire
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ASSIGNMENT

WHEREAS, We,
Yongdan Hu, residing at 1908 243rd Street SW, Bothell, Washington 98021, and
Eric C. Eisenberg, residing at 19641 20th Avenue NE, Shoreline, Washington 98155, and
Aleksandra Shepsis, residing at 20325 11th AVE W, Lynnwood, Washington 98036,
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 Serial No. 61/343,945 filed on April 12, 2010, and is titled
“**APPARATUS FOR OPTICAL FIBER MANAGEMENT AND COOLING**”;

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 application, and in and to the said
application, 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.

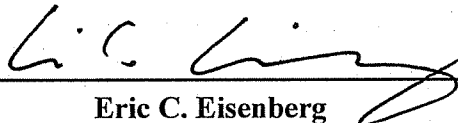
AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed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

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of November, 2010.



Yongdan Hu

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of November, 2010.



Eric C. Eisenberg

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of November, 2010.



Aleksandra Shepsis

Electronic Acknowledgement Receipt

EFS ID:	8901862
Application Number:	12953292
International Application Number:	
Confirmation Number:	3237
Title of Invention:	APPARATUS FOR OPTICAL FIBER MANAGEMENT AND COOLING
First Named Inventor/Applicant Name:	Yongdan Hu
Customer Number:	84623
Filer:	Charles Arthur Lemaire/Randy Lemaire
Filer Authorized By:	Charles Arthur Lemaire
Attorney Docket Number:	5032.058US1
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Application Type:	Utility under 35 USC 111(a)

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

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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		5032-058us1_optical_fiber_management_and_cooling.pdf	193955	yes	41
			c4f2bbeed6365c879efd52bc81f4a021e78d2f6d		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	35	
	Claims		36	40	
	Abstract		41	41	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	5032-058us1_Figures.pdf	189162	no	7
			b3a5294fa53ed875d592f2604ed132197b13c77e		
Warnings:					
Information:					
3	Oath or Declaration filed	5032-058us1_Declaration-POA.pdf	394338	no	3
			af448c7ca64914c4e364f5fd6a66345ceb83aace		
Warnings:					
Information:					
4	Nonpublication request from applicant.	5032-058us1_Nonpublication_Request-ADOBE-READER.pdf	240949	no	2
			1527b1de831a74171012fb925958de61ef8b68bb		
Warnings:					
Information:					
5	Application Data Sheet	5032-058us1_US_ADS_Form_S B_14.pdf	1008518	no	5
			5a3f22b8644488c81468139110ceb794a999a715		
Warnings:					
Information:					
6	Fee Worksheet (PTO-875)	fee-info.pdf	32923	no	2
			01a10f7cc7983963f6b9a8406044cb28c41caa4f		
Warnings:					
Information:					
Total Files Size (in bytes):			2059845		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.