

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthias P. Savage-Leuchs	11/22/2010
Christian E. Dilley	11/22/2010
Charles A. Lemaire	11/22/2010

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:	12952190

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	5032.051US1
NAME OF SUBMITTER:	Gregory A. Lemaire

Total Attachments: 8
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PATENT
REEL: 025458 FRAME: 0669

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ASSIGNMENT

WHEREAS, We,

Matthias P. Savage-Leuchs, residing at 17621 N.E. 160th Street, Woodinville, Washington 98072,
Christian E. Dilley, residing at 4929 153rd Place SE, Everett, Washington 98208, and
Charles A. Lemaire, residing at 13195 Flamingo Court, Apple Valley, Minnesota, 55124
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. 61/263,736 filed on November 23, 2009, and is titled

**“Q-SWITCHED OSCILLATOR SEED-SOURCE FOR MOPA LASER ILLUMINATOR
METHOD AND APPARATUS”;**

and for which we are filing an international patent application under the Patent Cooperation Treaty
(PCT), which application claims benefit of U.S. Provisional Patent Application No. 61/263,736
filed on November 23, 2009, and is titled

**“Q-SWITCHED OSCILLATOR SEED-SOURCE FOR MOPA LASER ILLUMINATOR
METHOD AND APPARATUS”;**

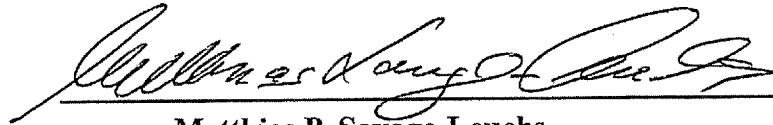
AND WHEREAS, **Lockheed Martin Corporation**, a corporation organized and existing
under and by virtue of the laws of the State of Maryland, and having an office and place of business
at 6801 Rockledge Drive, Bethesda, Maryland 20817 (hereinafter “Assignee”), is desirous of
acquiring the entire right, 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 Assignees, their 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 Assignees, their 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.

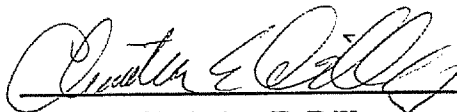
AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed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

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of November, 2010.



Matthias P. Savage-Leuchs

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of November, 2010.



Christian E. Dilley

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of November, 2010.



Charles A. Lemaire

Electronic Acknowledgement Receipt

EFS ID:	8894487
Application Number:	12952190
International Application Number:	
Confirmation Number:	1130
Title of Invention:	Q-SWITCHED OSCILLATOR SEED-SOURCE FOR MOPA LASER ILLUMINATOR METHOD AND APPARATUS
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:	5032.051US1
Receipt Date:	22-NOV-2010
Filing Date:	
Time Stamp:	23:23:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1882
RAM confirmation Number	8146
Deposit Account	502931
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Part	Multi Part /.zip	Pages (if appl.)

1	Application Data Sheet	5032-051us1_US_ADS_Form_S B_14.pdf	1400110 5c31361caacd5bc05ef6596b7fbdde1f5733 7550	no	5
Warnings:					
Information:					
2		5032-051us1_Q-switch_seed. pdf	315476 6effa2cfba056e52f8e2efbd1278de2de1361 10e	yes	73
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	67	
	Claims		68	72	
	Abstract		73	73	
Warnings:					
Information:					
3	Oath or Declaration filed	5032-051us1_Declaration.pdf	444368 b87854022bdf997413704c5b986b8e236e8 9de8d	no	3
Warnings:					
Information:					
4	Drawings-only black and white line drawings	5032-051us1_Figures.pdf	381141 96d829527c397d49817e18798090727806c e9e8e	no	14
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5	Fee Worksheet (PTO-875)	fee-info.pdf	37827 cb48a8f3ee016afcb86531efed3aec2a4138 45eb	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			2578922		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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.

Electronic Acknowledgement Receipt

EFS ID:	8894843
Application Number:	
International Application Number:	PCT/US10/57696
Confirmation Number:	1168
Title of Invention:	Q-SWITCHED OSCILLATOR SEED-SOURCE FOR MOPA LASER ILLUMINATOR METHOD AND APPARATUS
First Named Inventor/Applicant Name:	Lockheed Martin Corporation
Customer Number:	84623
Correspondence Address:	Charles A. Lemaire Lemaire Patent Law Firm P.O. Box 1818 - Burnsville MN 55337 US 952-435-0201 clemaire@lemairepatent.com
Filer:	Charles Arthur Lemaire
Filer Authorized By:	
Attorney Docket Number:	5032.051WO1
Receipt Date:	23-NOV-2010
Filing Date:	
Time Stamp:	02:25:12
Application Type:	International Application for filing in the US receiving office

Payment information:

Submitted with Payment	no
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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	ZIP	5032-051WO1.zip	52761 848f54d7ad5edcfe82695f56c2db70cc344f9e23	yes	
Multipart Description/PDF files in .zip description					
Document Description			Start	End	
fees.pdf			1	1	
pct101.pdf			1	5	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	5032-051wo1_figures_Q-seed.pdf	2681002 2383f5bf3f88e48b76d550d6442088be9d002ca2	no	15
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Information:					
3		5032-051wo1_Q-switch_seed.pdf	290482 5e1e5677abb3fd785b55baa0d48c5a20e58f0797	yes	66
Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Sequence Listing			1	60	
Claims			61	65	
Abstract			66	66	
Warnings:					
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4	Power of Attorney	5032_PCT_general_POA.pdf	86410 53dc315f814b21ed6b4a0d9bf84898c255e62a6d	no	1
Warnings:					
Information:					
5	Fee Worksheet (PTO-875)	fee-info.pdf	36352 67e6188b465a14121eeef95a6b0db3340e4bdcd0	no	2
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Information:					
Total Files Size (in bytes):			3167291		

PATENT

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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New International Application Filed with the USPTO as a Receiving Office

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