

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4785229

| | |
|---|-----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YONGDAN HU | 05/21/2013 |
| ANDREW XING | 05/21/2013 |
| ANGUS J. HENDERSON | 07/22/2013 |
| RECEIVING PARTY DATA | |
| Name: | Lockheed Martin Corporation |
| Street Address: | 6801 Rockledge Drive |
| City: | Bethesda |
| State/Country: | MARYLAND |
| Postal Code: | 20817 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 14740257 |
| Application Number: | 15446931 |
| CORRESPONDENCE DATA | |
| Fax Number: | (952)435-0299 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | (952) 435-0200 |
| Email: | glemaire@lemairepatent.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: | 5032.082US1 & FOLLOWING |
| NAME OF SUBMITTER: | GREGORY A. LEMAIRE |
| SIGNATURE: | /Gregory A. Lemaire/ |
| DATE SIGNED: | 01/20/2018 |
| Total Attachments: 6 | |
| source=5032.082us1 & following Hu signed Assignment#page1.tif | |
| source=5032.082us1 & following Hu signed Assignment#page2.tif | |
| source=5032.082us1 & following Xing signed Assignment#page1.tif | |

source=5032.082us1 & following Xing signed Assignment#page2.tif

source=5032.082us1 & following Henderson signed Assignment#page1.tif

source=5032.082us1 & following Henderson signed Assignment#page2.tif

PATENT

REEL: 044682 FRAME: 0466

ASSIGNMENT

WHEREAS, we,
Yongdan Hu, residing at 1908 243rd Street SW, Bothell, Washington 98021,
Andrew Xing, residing at 22914 11th Avenue W., Bothell, Washington 98021,
Angus J. Henderson, residing at 615 Boren Avenue, Unit 17, Seattle, Washington 98104,
made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on March 14, 2013, which application was given U.S. Patent Application Serial No. 13/828,875, and is entitled

**“HIGH-POWER MULTI-FUNCTION MILLIMETER-WAVE SIGNAL GENERATION
USING OPO AND DFG”;**

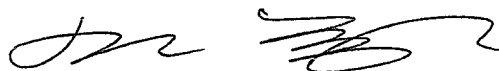
AND WHEREAS, **Lockheed Martin Corporation**, a corporation organized and existing under and by virtue of the laws of the State of Maryland, and having an office and place of business at 6801 Rockledge Drive, Bethesda, Maryland 20817 (hereinafter “Assignee”), is desirous of acquiring the entire right, 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 21st day of May, 2013.



Yongdan Hu

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of May, 2013.

Andrew Xing

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of May, 2013.

Angus J. Henderson

ASSIGNMENT

WHEREAS, we,
Yongdan Hu, residing at 1908 243rd Street SW, Bothell, Washington 98021,
Andrew Xing, residing at 22914 11th Avenue W., Bothell, Washington 98021,
Angus J. Henderson, residing at 615 Boren Avenue, Unit 17, Seattle, Washington 98104,
made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on March 14, 2013, which application was given U.S. Patent Application Serial No. 13/828,875, and is entitled

**“HIGH-POWER MULTI-FUNCTION MILLIMETER-WAVE SIGNAL GENERATION
USING OPO AND DFG”;**

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 _____ day of May, 2013.

Yongdan Hu

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21st day of May, 2013.



Andrew Xing

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of May, 2013.

Angus J. Henderson

ASSIGNMENT

WHEREAS, we,

Yongdan Hu, residing at 1908 243rd Street SW, Bothell, Washington 98021,

Andrew Xing, residing at 22914 11th Avenue W., Bothell, Washington 98021,

Angus J. Henderson, residing at 615 Boren Avenue, Unit 17, Seattle, Washington 98104,

made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on March 14, 2013, which application was given U.S. Patent Application Serial No. 13/828,875, and is entitled

**“HIGH-POWER MULTI-FUNCTION MILLIMETER-WAVE SIGNAL GENERATION
USING OPO AND DFG”;**

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 _____ day of May, 2013.

Yongdan Hu

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of May, 2013.

Andrew Xing

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of July, 2013.

Angus Henderson
Angus J. Henderson