

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Charles Apker</td> <td>02/06/2013</td> </tr> <tr> <td>Mark Bullock</td> <td>02/19/2013</td> </tr> <tr> <td>Steven Pratt</td> <td>02/11/2013</td> </tr> <tr> <td>David D. Schmidt</td> <td>02/06/2013</td> </tr> <tr> <td>Matthew Stafford</td> <td>02/06/2013</td> </tr> <tr> <td>Scott O. Sorber</td> <td>02/07/2013</td> </tr> </tbody> </table>		Name	Execution Date	Charles Apker	02/06/2013	Mark Bullock	02/19/2013	Steven Pratt	02/11/2013	David D. Schmidt	02/06/2013	Matthew Stafford	02/06/2013	Scott O. Sorber	02/07/2013
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<table border="1"> <tr> <td>Name:</td> <td>Lockheed Martin Corporation</td> </tr> <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> </tr> </table>		Name:	Lockheed Martin Corporation	Street Address:	6801 Rockledge Drive	City:	Bethesda	State/Country:	MARYLAND	Postal Code:	20817				
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CORRESPONDENCE DATA															
Fax Number: 6176468646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 617-646-8000 Email: syapsuga@wolfgreenfield.com Correspondent Name: Robert A. Jensen Address Line 1: Wolf Greenfield Address Line 2: 600 Atlantic Avenue Address Line 4: Boston, MASSACHUSETTS 02210															
ATTORNEY DOCKET NUMBER:	L0562.70092US00														

OP \$40.00 13772586

NAME OF SUBMITTER:

Sandra L. Yapsuga

Total Attachments: 7

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PATENT

REEL: 029848 FRAME: 0126

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to Lockheed Martin Corporation, a Maryland Corporation having a place of business at 6801 Rockledge Drive; Bethesda, Maryland 20817, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed Concurrently Herewith, bearing Attorney Docket No. L0562.70092US00, and entitled ANTENNA ARRAY CALIBRATION, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

2/6/13
Date

Charles Apker
Inventor: Charles Apker
Address: 1801 State Route 17C
0306
Owego, New York 13827
Citizenship: US

STATE/Commonwealth of New York
COUNTY OF Tioga

On this 6th day of February 2013, before me, the undersigned notary public,
personally appeared Charles Apker, proved to me through satisfactory evidence of
identification, which were Lockheed Martin Employee Picture ID,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Lori A. Birkmeyer
Notary Public

My commission expires: 8/12/14

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5064169
QUALIFIED IN TOMPKINS COUNTY
COMMISSION EXPIRES AUGUST 12, 2014

2-19-2013
Date

Mark C Bullock
Inventor: Mark Bullock
Address: 1801 State Route 17C
0302
Owego, New York 13827
Citizenship: US

STATE/Commonwealth of New York
COUNTY OF Tioga:

On this 19th day of February, 2013, before me, the undersigned notary public,
personally appeared Mark Bullock, proved to me through satisfactory evidence of
identification, which were Lockheed Martin Employee picture ID,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Lori A. Birkmeyer
Notary Public

My commission expires: 8/12/14

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5064169
QUALIFIED IN TOMPKINS COUNTY
COMMISSION EXPIRES AUGUST 12, 2014

2/11/2013
Date

Steven Pratt
Inventor: Steven Pratt
Address: 1801 State Route 17C
MS 0302
Owego, New York 13827
Citizenship: US

STATE/Commonwealth of New York
COUNTY OF Tioga

On this 11th day of February, 2013, before me, the undersigned notary public,
personally appeared Steven Pratt, proved to me through satisfactory evidence of
identification, which were Lockhead Martin Employee Picture ID,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Lori A. Birkmeyer
Notary Public

My commission expires: 8/12/14

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5064169
QUALIFIED IN TOMPKINS COUNTY,
COMMISSION EXPIRES AUGUST 12, 2014

Date 2/6/2013

Inventor: David D. Schmidt
Address: 1801 State Route 17C
M/D 0306
Owego, New York 13827
Citizenship: US

STATE/Commonwealth of NEW YORK
COUNTY OF Tioga:

On this 6th day of February, 2013, before me, the undersigned notary public,
personally appeared David D. Schmidt, proved to me through satisfactory evidence of
identification, which were Lockheed Martin Employee picture ID,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Lori A. Birkmeyer
Notary Public

My commission expires: 8/12/14

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5064169
QUALIFIED IN TOMPKINS COUNTY
COMMISSION EXPIRES AUGUST 12, 2014

Date 2-6-2013

Inventor: Matthew Stafford

Address: 1801 State Route 17C

MD 0302

Owego, New York 13827

Citizenship: US

STATE/Commonwealth of
COUNTY OF

New York
Tioga

On this 6th day of February 2013, before me, the undersigned notary public,
personally appeared Matthew Stafford, proved to me through satisfactory evidence of
identification, which were Lockheed Martin Employee picture ID
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Lori A. Birkmeyer
Notary Public

My commission expires: 8/12/14

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5064169
QUALIFIED IN TOMPKINS COUNTY
COMMISSION EXPIRES AUGUST 12, 2014

Date 2/7/2013

Inventor: Scott O. Sorber
Address: 120 Gardner Road
Vestal, New York 13850
Citizenship: US

STATE/Commonwealth of New York
COUNTY OF Tioga:

On this 7th day of February 2013, before me, the undersigned notary public, personally appeared Scott O. Sorber, proved to me through satisfactory evidence of identification, which were Lockheed Martin Employee Picture ID, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

My commission expires:

Lori A. Birkmeyer
Notary Public

LORI A. BIRKMEYER
NOTARY PUBLIC - STATE OF NEW YORK
NO. 01BI5084169
QUALIFIED IN TOMPKINS COUNTY
COMMISSION EXPIRES AUGUST 12, 2014