503788870 04/19/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3835516

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUNG LOUI	12/09/2015
THOMAS EDWARD CHIRSTIAN JR.	03/17/2016

RECEIVING PARTY DATA

Name:	SANDIA CORPORATION
Street Address:	P.O. BOX 5800, MS-0161
City:	ALBUQUERQUE
State/Country:	NEW MEXICO
Postal Code:	87185

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14927018

CORRESPONDENCE DATA

Fax Number: (505)844-9955

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.

Phone: 505-844-7283 Email: dcates@sandia.gov

Correspondent Name: SANDIA NATIONAL LABORATORIES

Address Line 1: P.O. BOX 5800, MS-0161

Address Line 4: ALBUQUERQUE, NEW MEXICO 87185

ATTORNEY DOCKET NUMBER:	SD12590/S132138	
NAME OF SUBMITTER:	MADELYNNE J. FARBER	
SIGNATURE:	/Madelynne J. Farber/	
DATE SIGNED:	04/19/2016	

Total Attachments: 6

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> **PATENT** REEL: 038312 FRAME: 0473

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PATENT REEL: 038312 FRAME: 0474

ASSIGNMENT

WHEREAS, Hung Loui of Albuquerque, New Mexico and Thomas Edward Christian JR. of Palmdale, California (hereinafter "Inventor(s)") has(have) made an invention relating to IN-SITU ACTIVE IMPEDANCE CHARACTERIZATION OF SCANNED ARRAY ANTENNAS in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in Application Serial No. 14/927,018 for United States patent, filed October 29, 2015 and identified as DOE Docket No: S-132138 duly executed by said inventor(s); and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, its successors and assigns, all of Inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to Sandia Corporation, for its interest as Sandia Corporation, its successors and assigns.

Page 1 of 3

Inventor(s) covenants with Sandia Corporation that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of Sandia corporation, to make, execute, and deliver to Sandia Corporation, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Albuquerque, New Mexico.

Hung Loui

12/9/2015

Date

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO)

On the above dates, personally appeared before me, Diana Schanning, Notary Public, **Hung** Loui, to me known to be the individual(s) described in and who executed the foregoing instrument, and who acknowledged to me that they executed the same.

Notary Public



Approved and consented by:

SANDIA CORPORATION

Date: <u>/4//7//5</u>

Kerry Kampschmidt Sr. Managing IP Counsel

Legal Technology Transfer Center

STATE OF NEW MEXICO)

) ss:

COUNTY OF BERNALILLO)

On the above date, personally appeared before me, Diana Schanning, Notary Public, Kerry Kampschmidt, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

Dione Scharing

OFFICIAL SEAL
Diana Schanning
NOTARY PUBLIC
STATE OF NEW MEXICO

ASSIGNMENT

WHEREAS, Hung Loui of Albuquerque, New Mexico and Thomas Edward Christian JR. of Palmdale, California (hereinafter "Inventor(s)") has(have) made an invention relating to IN-SITU ACTIVE IMPEDANCE CHARACTERIZATION OF SCANNED ARRAY ANTENNAS in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in Application Serial No. 14/927,018 for United States patent, filed October 29, 2015 and identified as DOE Docket No: S-132138 duly executed by said inventor(s): and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, its successors and assigns, all of Inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to Sandia Corporation, for its interest as Sandia Corporation, its successors and assigns.

Page 1 of 3

Inventor(s) covenants with Sandia Corporation that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of Sandia corporation, to make, execute, and deliver to Sandia Corporation, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Thomas Edward Christian JR. Date A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. SIAIE OF CALIFORNIA) ss: COUNTY OF LUS AMBLUS Subscribed and sworn to (or affirmed) before me on this HTH day of MARCH 2016, by Thomas Edward Christian JR., who proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me. LUIS A. CASTELLANOS Commission # 2043874 Notary Public California Los Angeles County My Comm. Expires Oct 28, 2017	Signed at Palm dale .CA.				
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. \$\frac{\text{SIAIE OF CALIFORNIA}}{\text{SISE}}\$) \$\frac{\text{SSS:}}{\text{COUNTY OF \text{LUS ALIFORNIA}}}{\text{JUS A. CASTELLANOS}}\$ Subscribed and sworn to (or affirmed) before me on this \text{\text{FTH}} \day of \text{\text{MARCH}}, 201 \text{\text{\$\subscribed}}, 201 \text{\text{\$\subscribed}}\$ By Thomas Edward Christian JR., who proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me. LUIS A. CASTELLANOS Commission \(\psi \) 2043874 Notary Public - California Los Angeles County	Thomas Educad & Jr.	03/17/2016			
verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. \$1A1E OF CALIFORNIA) ss: COUNTY OF LIS ANGLES Subscribed and sworn to (or affirmed) before me on this ATH day of MARCH by Thomas Edward Christian JR., who proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me. LUIS A. CASTELLANOS Commission # 2043874 Notary Public - California Los Angeles County		Date			
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document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. STATE OF CALIFORNIA) ss: COUNTY OF LOS AMBLES Subscribed and sworn to (or affirmed) before me on this Ambles by Thomas Edward Christian JR., who proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me. LUIS A. CASTELLANOS Commission # 2043874 Notary Public - California Los Angeles County					
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person(s) who appeared before me. LUIS A. CASTELLANOS Commission # 2043874 Notary Public - California Los Angeles County	Subscribed and sworn to (or affirmed) before me on this $\underline{\mathcal{H}}$	TH day of MAROH , 2016,			
LUIS A. CASTELLANOS Commission # 2043874 Notary Public - California Los Angeles County	by Thomas Edward Christian JR., who proved to me on the basis of satisfactory evidence to be the				
Commission # 2043874 Notary Public - California Los Angeles County	person(s) who appeared before me.				
		Commission # 2043874 Notary Public - California			

My commission expires: WIDEF 28, XIF

Notary Public seal

Approved and consented by:

Date

SANDIA CORPORATION

Kerry Kampschmidt

Sr. Managing IP Counsel

Legal Technology Transfer Center

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO)

On the above date, personally appeared before me, Diana Schanning, Notary Public, Kerry Kampschmidt, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

a Salan Notary Public OF Dian

OFFICIAL SEAL

Diana Schanning

NOTARY PUBLIC STATE OF NEW MEXICO

Constant Buckeye