505679696 09/19/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5726504

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
MARK ALAN CHANCEY	08/16/2016
JOHN MATTHEW MILLER	08/27/2019
NICHOLES NORBERT LEE SCHUETZ	08/14/2019
JOHN ANDREW SUPEL	08/20/2019
JERRY CARSON TURJANICA	08/21/2019

#### **RECEIVING PARTY DATA**

Name:	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY
Street Address:	875 N. RANDOLPH ST.
Internal Address:	OFFICE OF NAVAL RESEARCH, ROOM 522, ATTN: CODE OOCCIP
City:	ARLINGTON
State/Country:	VIRGINIA
Postal Code:	22203-1995

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16506411

## **CORRESPONDENCE DATA**

**Fax Number:** (812)854-5170

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Email: eric.vanwiltenburg@navy.mil
Correspondent Name: ERIC VANWILTENBURG

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Address Line 4: CRANE, INDIANA 47522-5001

ATTORNEY DOCKET NUMBER:	200,593
NAME OF SUBMITTER:	EDEN TUTTLE
SIGNATURE:	/Eden Tuttle/
DATE SIGNED:	09/19/2019

PATENT 505679696 REEL: 050426 FRAME: 0302

## **Total Attachments: 5**

source=200593\_Assignments\_Turjanica\_signed#page1.tif source=NC200593\_Assignments\_Chancey - Signed#page1.tif source=NC200593\_Assignments\_Miller\_signed#page1.tif source=NC200593\_Assignments\_Schuetz\_signed#page1.tif source=200593\_Assignments\_Supel\_signed#page1.tif

> PATENT REEL: 050426 FRAME: 0303

WHEREAS I, Jerry Carson Turjanica of 2904 W Winterberry Court Bloomington, IN 47404 while engaged as an employee of the Government of the United States of America, hereinafter referred to as the Government, have invented or contributed to an invention of certain new and useful improvements in a "A Hardware in the Loop Simulation and Test System that includes a Phased Array Antenna Simulation System Providing Dynamic Range and Angle of Arrival Signals Simulation for Input into a Device under Test (DUT) that includes a Phased Array Signal Processing System along with Related Methods" described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below:

Patent Application 16/506,411 filed on July 9, 2019

WHEREAS, the conditions under which the invention was made are such as to entitle the Government to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the **United States of America as represented by the Secretary of the Navy** the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

\_\_/Jerry Carson Turjanica / Inventor Signature

SIGNING DATE 08/21/2019

Jerry Carson Turjanica Printed Name

WHEREAS I, Mark Alan Chancey of 4267 N Sullivan Ct Solsberry, IN 47459, while engaged as an employee of the Government of the United States of America, hereinafter referred to as the Government, have invented or contributed to an invention of certain new and useful improvements in a "A Hardware in the Loop Simulation and Test System that includes a Phased Array Antenna Simulation System Providing Dynamic Range and Angle of Arrival Signals Simulation for Input into a Device under Test (DUT) that includes a Phased Array Signal Processing System along with Related Methods" described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below:

Patent Application 16/506,411 filed on July 9, 2019

WHEREAS, the conditions under which the invention was made are such as to entitle the Government to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the **United States of America as represented by the Secretary of the Navy** the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

\_\_/Mark Alan Chancey / Inventor Signature

SIGNING DATE 08/16/2016

Mark Alan Chancey Printed Name

> PATENT REEL: 050426 FRAME: 0305

WHEREAS I, John Matthew Miller of 711 W. Whitestone St. Bloomington, IN 47403 while engaged as an employee of the Government of the United States of America, hereinafter referred to as the Government, have invented or contributed to an invention of certain new and useful improvements in a "A Hardware in the Loop Simulation and Test System that includes a Phased Array Antenna Simulation System Providing Dynamic Range and Angle of Arrival Signals Simulation for Input into a Device under Test (DUT) that includes a Phased Array Signal Processing System along with Related Methods" described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below:

Non Provisional Patent Application 16/506,411 filed on July 9, 2019

WHEREAS, the conditions under which the invention was made are such as to entitle the Government to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the **United States of America as represented by the Secretary of the Navy** the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

\_\_/John Matthew Miller / Inventor Signature

SIGNING DATE 8/27/2019

John Matthew Miller Printed Name

WHEREAS I, Nicholas Norbert Lee Schuetz of 4016 N Private Road 1180 E Loogootee, IN 47553 while engaged as an employee of the Government of the United States of America, hereinafter referred to as the Government, have invented or contributed to an invention of certain new and useful improvements in a "A Hardware in the Loop Simulation and Test System that includes a Phased Array Antenna Simulation System Providing Dynamic Range and Angle of Arrival Signals Simulation for Input into a Device under Test (DUT) that includes a Phased Array Signal Processing System along with Related Methods" described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below:

Patent Application 16/506,411 filed on July 9, 2019

WHEREAS, the conditions under which the invention was made are such as to entitle the Government to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the **United States of America as represented by the Secretary of the Navy** the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

\_\_/Nicholas Norbert Lee Schuetz / Inventor Signature

SIGNING DATE 8/14/2019

Nicholas Norbert Lee Schuetz Printed Name

WHEREAS I, John Andrew Supel of 6833 W Lori Ann Ln Bloomington, IN 47403 while engaged as an employee of the Government of the United States of America, hereinafter referred to as the Government, have invented or contributed to an invention of certain new and useful improvements in a "A Hardware in the Loop Simulation and Test System that includes a Phased Array Antenna Simulation System Providing Dynamic Range and Angle of Arrival Signals Simulation for Input into a Device under Test (DUT) that includes a Phased Array Signal Processing System along with Related Methods" described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below:

Patent Application 16/506,411 filed on July 9, 2019

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WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

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NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the **United States of America as represented by the Secretary of the Navy** the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

/John Andrew Supel/ Inventor Signature SIGNING DATE August 20, 2019

Navy Case: 200593

John Andrew Supel Printed Name

PATENT
RECORDED: 09/19/2019 REEL: 050426 FRAME: 0308