503588642 11/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3635272

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VLADAMIR SOTNIKOV	11/24/2015
TONY KIM	11/24/2015

RECEIVING PARTY DATA

Name:	Government of the United States as Represented by the Secretary of the Air Force
Street Address:	2240 B. Street
Internal Address:	Building 11, Area B
City:	Wright-Patterson AFB
State/Country:	OHIO
Postal Code:	45433-7109

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14954031

CORRESPONDENCE DATA

Fax Number: (937)255-3733

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.

Email: pamela.kuns@us.af.mil

Correspondent Name: PAMELA KUNS
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Address Line 2: BUILDING 11, AREA B

Address Line 4: WRIGHT-PATTERSON AFB, OHIO 45433-7109

ATTORNEY DOCKET NUMBER:	AFD-1376	
NAME OF SUBMITTER:	JASON SOPKO	
SIGNATURE:	/Jason Sopko/	
DATE SIGNED:	11/30/2015	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 2

source=Sotnikov_Dec_Assign_Signed#page1.tif source=Kim_Dec_Assign_Signed#page1.tif

> PATENT REEL: 037167 FRAME: 0599

503588642

DECLARATION / ASSIGNMENT (Inventor with Co-inventors)

invention with Tony Kim described in invention disclosure AFD 1376 entitled "Dual Loop ELF and VLF Antenna", to be
filed as an application for Letters Patent of the United States (Application Serial Number 14954031 filed 30 Nov 15), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses
(Application Serial Number, filed) the filing date and application number of said application when known;
WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me;
WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;
WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is
punishable under 18 U.S.C. § 1001 by fine, imprisonment of not more than five (5) years, or both;
WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the
United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the
entire right, title and interest therein, including foreign rights;
NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and
other valuable considerations, I, Vladimir Sotnikov:
HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto
the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest,
in any jurisdiction throughout the world, in and to the aforesaid invention described in the aforesaid application for
Letters Patent of the United States, made jointly with Tony Kim, all Letters Patent issuing thereon, and any
continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the
filing of the aforesaid application for patent in the United States;
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to
the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of
my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents
and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as
fully and entirely as the same would have been held by me had this Assignment not been made; HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force,
the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all
countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to
be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that
this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight
months of the first filing date of any application for United States Letters Patent covering the invention or within eight
months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the
option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States
in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the
foreign policies of the United States of America; and
HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and
to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such
applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.
Vladimir Sotnikov
SUBSCRIBED AND ACKNOWLEDGED before me by Vladimir Sotnikov this 24th day of
November 2015, at the city of <u>Fairborn</u> in the County of
GREENE and State of OHIO
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PATENT REEL: 037167 FRAME: 0600

(Inventor with Co-Inventors)
WHEREAS, I, Tony Kim, while employed by the Government of the United States, jointly made an invention with Vladimir Sotnikov described in invention disclosure AFD 1376 entitled "Dual Loop ELF and VLF Antenna", to be filed as an application for Letters Patent of the United States (Application Serial Number 14954031 filed 30 Nov 15), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses
(Application Serial Number, filed) the filing date and application number of said application when known; WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me; WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;
WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. § 1001 by fine, imprisonment of not more than five (5) years, or both; WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the
United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights;
NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, Tony Kim:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in any jurisdiction throughout the world, in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States, made jointly with Vladimir Sotnikov, all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States:

HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

Tony Kim SUBSCRIBED AND ACKNOWLEDGED before me by Tony Kim this _____2015, at the city of Fairborr in the County of and State of SHEARY E HEDGER Votary Public NOTARY PUBLIC, STATE OF OHIO **GREENE COUNTY**

> **PATENT** REEL: 037167 FRAME: 0601

RECORDED: 11/30/2015