

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT2974238

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ROBERT B. DYBDAL	08/06/2014
CHRISTOPHER J. CLARK	08/06/2014
DON J. HINSHILWOOD	08/05/2014
LAN XU	08/05/2014
RECEIVING PARTY DATA	
Name:	THE AEROSPACE CORPORATION
Street Address:	2310 E. EL SEGUNDO BOULEVARD
City:	EL SEGUNDO
State/Country:	CALIFORNIA
Postal Code:	90245
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14453949
CORRESPONDENCE DATA	
Fax Number:	(858)314-1150
<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:	858-314-1200
Email:	cjhines@jonesday.com, MVDiaz@jonesday.com
Correspondent Name:	JONES DAY
Address Line 1:	222 EAST 41ST STREET
Address Line 4:	NEW YORK, NEW YORK 10017-6702
ATTORNEY DOCKET NUMBER:	12709-048-999
NAME OF SUBMITTER:	CARRIE J. HINES
SIGNATURE:	/Carrie J. Hines/
DATE SIGNED:	08/08/2014
Total Attachments: 3	
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ASSIGNMENT

WHEREAS, WE, **Robert B. DYBDAL**, citizen of the United States, having a mailing address of 2549 Palos Verdes Drive West, Palos Verdes Estates, California 90274, residing at Palos Verdes Estates, California; **Christopher J. CLARK**, citizen of the United States, having a mailing address of 104 Monterey Boulevard, Hermosa Beach, California 90254, residing at Hermosa Beach, California; **Don J. HINSHILWOOD**, citizen of the United States, having a mailing address of 40 Encanto Drive, Rolling Hills Estates, California 90274, residing at Rolling Hills Estates, California; and **Lan XU**, citizen of the United States, having a mailing address of 17418 Sybrandy Avenue, Cerritos, California, 90703, residing at Cerritos, California, ASSIGNORS, are the inventors of the invention in SYSTEMS AND METHODS FOR REDUCING NARROW BANDWIDTH AND DIRECTIONAL INTERFERENCE CONTAINED IN BROAD BANDWIDTH SIGNALS for which we have executed an application for a Patent of the United States

- which is identified by Jones Day docket no. 12709-048-999 (CAM 467972-999048)
- which was filed on , Application No.
- We hereby authorize and request attorney(s) Jaime D. Choi at Jones Day, to insert here in parentheses (Application number 14/453,949 , filed 8/7/14) the filing date and application number of said application when known.

and WHEREAS, **THE AEROSPACE CORPORATION**, a corporation organized and existing under the laws of the state of California, and having an office for the transaction of business at 2310 E. El Segundo Boulevard, El Segundo, California 90245, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

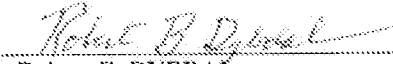
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement.


AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date August 6, 2014  L.S.
Robert B. DYBDAL

Date August 6, 2014  L.S.
Christopher J. CLARK

Date Aug. 5, 2014

Don J. Hinshilwood
Don J. HINSHILWOOD L.S.

Date Aug 5, 2014

Lan XU
Lan XU L.S.

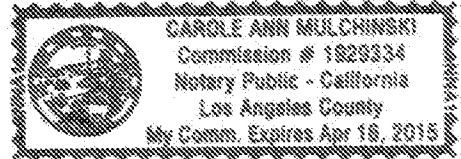
STATE OF CALIFORNIA)
COUNTY OF Los Angeles)

On 8/5/2014 before me, Carole Ann Mulchinski, Notary Public, personally appeared **Robert B. DYBDAL**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carole Ann Mulchinski (Seal)



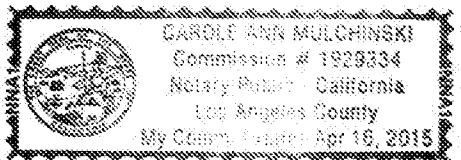
STATE OF CALIFORNIA)
COUNTY OF Los Angeles)

On 8/8/14 before me, Carole Ann Mulchinski, Notary Public, personally appeared **Christopher J. CLARK**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carole Ann Mulchinski (Seal)



STATE OF CALIFORNIA)

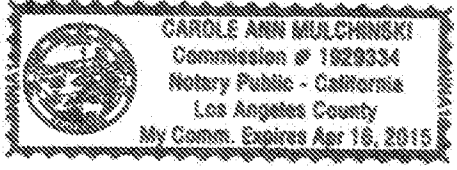
COUNTY OF Los Angeles)

On August 5, 2014 before me, Carole Ann Mulchinski, Notary Public, personally appeared Don J. HINSHILWOOD, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carole Ann Mulchinski (Seal)



STATE OF CALIFORNIA)

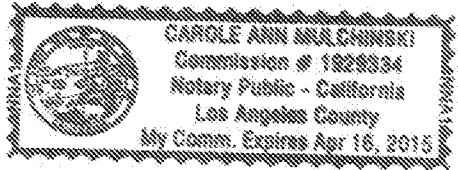
COUNTY OF Los Angeles)

On August 5, 2014 before me, Carole Ann Mulchinski, Notary Public, personally appeared Lan XU, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carole Ann Mulchinski (Seal)



ACCEPTED AND AGREED TO BY ASSIGNEE, THE AEROSPACE CORPORATION:

Signature [Signature]

Date: 8/6/14

Printed name KIEN T. LE

Title SR. COUNSEL