503105493 12/17/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROHIT BAHL	09/22/2012
NIKHIL GULATI	10/23/2012
KAPIL R. DANDEKAR	07/11/2012
DWIGHT L. JAGGARD	09/14/2012

RECEIVING PARTY DATA

Name:	DREXEL UNIVERSITY
Street Address:	3141 CHESTNUT STREET
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19104

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14408807

CORRESPONDENCE DATA

Fax Number: (215)568-3439

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: 215-568-3100

Email: assignments@woodcock.com
Correspondent Name: BAKER & HOSTETLER LLP
Address Line 1: CIRA CENTRE 12TH FLOOR

Address Line 2: 2929 ARCH STREET

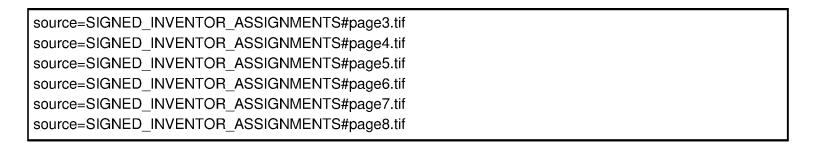
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19104-2891

ATTORNEY DOCKET NUMBER:	104889.000657 / 12-1429	
NAME OF SUBMITTER:	VALERIE CHICCHI	
SIGNATURE:	/Valerie Chicchi/	
DATE SIGNED:	12/17/2014	

Total Attachments: 8

source=SIGNED_INVENTOR_ASSIGNMENTS#page1.tif source=SIGNED_INVENTOR_ASSIGNMENTS#page2.tif

PATENT 503105493 REEL: 034530 FRAME: 0859



PATENT REEL: 034530 FRAME: 0860

ASSIGNMENT

WHEREAS, I, Rohit Bahl, a citizen of India, residing at 4005 Chestnut Street, Apt. 3, Philadelphia, Pennsylvania 19104, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number DXU-0435 / 12-1429D ("the invention"), assigned application number 61/662,109 filed June 20, 2012, which is entitled RECONFIGURABLE ANTENNAS FOR PERFORMANCE ENHANCEMENT OF INTERFERENCE NETWORKS EMPLOYING INTERFERENCE ALIGNMENT ("the subject application").

AND WHEREAS, Drexel University, ASSIGNEE, having a place of business at 3141 Chestnut Street, Philadelphia, Pennsylvania 19104, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 22 nd day of September, year of 2012.

Signature - Rohit Bahl

STATEMENT OF NOTARY PUBLIC

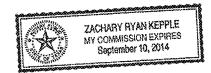
STATE OF <u>Texas</u>:

: SS

COUNTY OF <u>Denton</u>:

On this 22 day of September, year of 2012, before me personally came the above named Rohit Bahl to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Borary Public Peya Reporte



ASSIGNMENT

WHEREAS, I, Nikhil Gulati, a citizen of India, residing at 2001 Hamilton Street, Apt. 621, Philadelphia, Pennsylvania 19130, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number DXU-0435 / 12-1429D ("the invention"), assigned application number 61/662,109 filed June 20, 2012, which is entitled RECONFIGURABLE ANTENNAS FOR PERFORMANCE ENHANCEMENT OF INTERFERENCE NETWORKS EMPLOYING INTERFERENCE ALIGNMENT ("the subject application").

AND WHEREAS, Drexel University, ASSIGNEE, having a place of business at 3141 Chestnut Street, Philadelphia, Pennsylvania 19104, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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

came the above named Nikhil Gulati to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution

of the same was of that person's own free will for the use and purposes therein set forth.

William

Notary Public

COMMONWEALTH OF PERMISTLVANIA

MOTARIAL SEAL

LISA T. WILLIAMS, Maley Public

City of Philipdelpiffs, Phile. County

My Commission Expires April 23, 2018

ASSIGNMENT

WHEREAS, I, Kapil R. Dandekar, a citizen of United States, residing at 1912 Pemberton Street, Philadelphia, Pennsylvania 19146, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number DXU-0435 / 12-1429D ("the invention"), assigned application number 61/662,109 filed June 20, 2012, which is entitled RECONFIGURABLE ANTENNAS FOR PERFORMANCE ENHANCEMENT OF INTERFERENCE NETWORKS EMPLOYING INTERFERENCE ALIGNMENT ("the subject application").

AND WHEREAS, **Drexel University**, ASSIGNEE, having a place of business at **3141 Chestnut Street**, **Philadelphia**, **Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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

DOCKET NO.: DXU-0435 / 12-1429D
IN TESTIMONY WHEREOF, I have signed my name below on the date indicated abov my signature.
Executed this
Signature – Kapil R. Dandekar

STATEMENT OF NOTARY PUBLIC
STATE OF Pennsylvania:
: SS
COUNTY OF Philadelphia:
On this 11th day of July, year of 2012, before me personally came the above named Kapil R. Dandekar to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me the execution of the same was of that person's own free will for the use and purposes therein see forth.
COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Grace R. Beebe - Notary Public City of Philadelphia, Philadelphia County MY COMMISSION EXPIRES MAR. 24, 2014

ASSIGNMENT

WHEREAS, I, Dwight L. Jaggard, a citizen of United States, residing at 308 Moore Building, 200 South 33rd Street, Philadelphia, Pennsylvania 19104, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number DXU-0435 / 12-1429D ("the invention"), assigned application number 61/662,109 filed June 20, 2012, which is entitled RECONFIGURABLE ANTENNAS FOR PERFORMANCE ENHANCEMENT OF INTERFERENCE NETWORKS EMPLOYING INTERFERENCE ALIGNMENT ("the subject application").

AND WHEREAS, Drexel University, ASSIGNEE, having a place of business at 3141 Chestnut Street, Philadelphia, Pennsylvania 19104, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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

DOCKET NO.: DXU-0435 / 12-1429D IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature. Executed this STATEMENT OF NOTARY PUBLIC STATE OF PA : SS COUNTY OF MONTAGMEN day of September, year of 2012, before me personally came the above named Dwight L. Jaggard to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth. Notary Public COMMONWEALTH OF PENNSYLVANIA

Page 2 of 2

Notarial Seal
Natalie A. Cardwell, Notary Public
Darby Boro, Delaware County
My Commission Expires May 13, 2015
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES