503563054 11/10/2015

PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT3609681

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: CORRECTIVE ASSIGNMENT **NATURE OF CONVEYANCE:** Corrective Assignment to correct the ASSIGNEE NAME FROM ANRITSU CORPORATION previously recorded on Reel 034559 Frame 0538. Assignor(s) hereby confirms the ANRITSU COMPANY.

CONVEYING PARTY DATA

Name	Execution Date
DONALD ANTHONY BRADLEY	12/19/2014
KARAM MICHAEL NOUJEIM	12/18/2014
JON S. MARTENS	12/19/2014

RECEIVING PARTY DATA

Name:	ANRITSU COMPANY
Street Address:	490 JARVIS DRIVE
City:	MORGAN HILL
State/Country:	CALIFORNIA
Postal Code:	95037

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14213171

CORRESPONDENCE DATA

Fax Number: (415)617-2409

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: 4156172400

Email: officeactions@tuckerellis.com

TUCKER ELLIS LLP **Correspondent Name:** Address Line 1: ONE MARKET PLAZA

Address Line 2: STEUART TOWER, SUITE 700

Address Line 4: SAN FRANCISCO, CALIFORNIA 94105

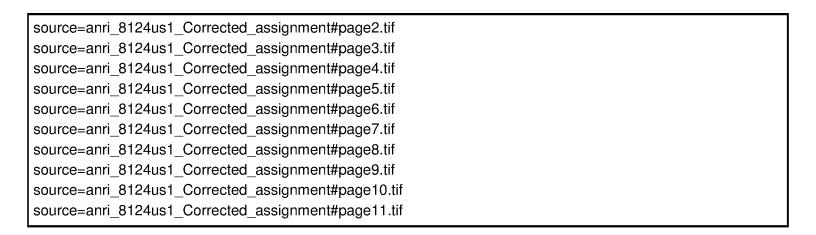
ATTORNEY DOCKET NUMBER: ANRI-08124US0 NAME OF SUBMITTER: MICHAEL ROBBINS SIGNATURE: /Michael Robbins/ **DATE SIGNED:** 11/10/2015

Total Attachments: 11

source=anri 8124us1 Corrected assignment#page1.tif

PATENT REEL: 037084 FRAME: 0085

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PATENT REEL: 037084 FRAME: 0086

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3156801

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DONALD ANTHONY BRADLEY	12/19/2014
KARAM MICHAEL NOUJEIM	12/18/2014
JON S. MARTENS	12/19/2014

RECEIVING PARTY DATA

Name:	ANRITSU CORPORATION
Street Address:	490 JARVIS DRIVE
City:	MORGAN HILL
State/Country:	CALIFORNIA
Postal Code:	95037

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14213171

CORRESPONDENCE DATA

Fax Number:

(415)362-2928

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:

4153623800

Email:

officeactions@meyerip.com

Correspondent Name:

MEYER IP LAW GROUP

Address Line 1:

410 PACIFIC AVENUE

Address Line 4:

SAN FRANCISCO, CALIFORNIA 94133

ATTORNEY DOCKET NUMBER:	ANRI-08124US1
NAME OF SUBMITTER:	MICHAEL L. ROBBINS
SIGNATURE:	/Michael L. Robbins/
DATE SIGNED:	12/19/2014

Total Attachments: 4

source=anri_8124us1_Signed_assignment#page1.tif source=anri_8124us1_Signed_assignment#page2.tif source=anri_8124us1_Signed_assignment#page3.tif source=anri_8124us1_Signed_assignment#page4.tif

> PATENT REEL: 037084 FRAME: 0087

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1)	Donald Anthony Bradley	,
a resident of	Morgan Hill, California, United States of America	; and
(2)	Karam Michael Noujeim	
a resident of	Los Altos, California, United States of America	; and
(3)	Jon S. Matens	***************************************
a resident of	San Jose, California, United States of America	

have invented certain new and useful improvements in:

SYSTEMS AND METHODS FOR SIMULTANEOUSLY MEASURING FORWARD AND REVERSE SCATTERING PARAMETERS

- and have prepared a United States Provisional Patent Application disclosing and identifying the invention, said application having been filed on the 15th day of March, 2013, and assigned U.S. Provisional Patent Application No. 61/798,859.
- 2. and/or have executed on the 20th day of May, 2014, a declaration or oath for an application for a United States patent disclosing and identifying the invention and/or said application having been filed on the 1st day of March, 2013, and assigned U.S. Patent Application No. 14/213,171.

WHEREAS Anritsu Company (hereinafter termed "Assignee"), a corporation of the State of California, having a place of business at 490 Jarvis Drive, Morgan Hill, State of California, 95037, wishes to acquire the entire right, title and interest in and to said application(s) and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patent applications, patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

- 1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application(s) and said invention; (b) in and to all rights to apply in any and all countries of the world for patent applications, patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.
- 2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in

Page 1

Attorney Docket No.: ANRI-08124US1 mrobbins/anri/anri 8124us1_assignment.wpd

the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting provisional, utility, substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions, invalidity actions, and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

- 3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.
- 4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date as given below and delivered this instrument to said Assignce:

DEC 19, 2014	Donald Anthony Bradley
State of	
County of	
On befor	re me,
is subscribed to the within instrument and acknowledged	(name and title of officer) proved to me on the basis of satisfactory evidence to be the person whose name to me that he/she executed the same in his/her authorized capacity, and that entity upon behalf of which the person 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	

_	
DEC 19,20	14 (2) e
Date	Karam Michael Noujeim
State of)
County of	
On	before me,
is subscribed to the within instrum	(name and title of officer) , who proved to me on the basis of satisfactory evidence to be the person whose nament and acknowledged to me that he/she executed the same in his/her authorized capacity, and that ent the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PER	UURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official se	al.
Signature	
*****	***********
	(2)
Date	Jon S. Martens
State of	`)
County of	
On	before me,, (name and title of officer)
personally appeared is subscribed to the within instrum	(name and title of officer) who proved to me on the basis of satisfactory evidence to be the person whose name and acknowledged to me that he/she executed the same in his/her authorized capacity, and that ent the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PER	JURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official se	al.
G: .	
Signature	
alle als	

	(2)
Date	Karam Michael Noujeim
State of	
-	
On	before me,
personally appearedis subscribed to the within instrumer	, who proved to me on the basis of satisfactory evidence to be the person whose name at and acknowledged to me that he/she executed the same in his/her authorized capacity, and that the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERJ	URY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official sea	l.
Signature	
12/19/14 Date	**************************************
County of	
is subscribed to the within instrumer	before me,(name and title of officer), who proved to me on the basis of satisfactory evidence to be the person whose nament and acknowledged to me that he/she executed the same in his/her authorized capacity, and that the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERI	JURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official sea	1.
Signature	
*****	**************

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1)	Donald Anthony Bradley	
a resident of	Morgan Hill, California, United States of America	; and
(2)	Karam Michael Noujeim	
a resident of	Los Altos, California, United States of America	; and
(3)	Jon S. Matens	mana dikarasa 1
a resident of	San Jose, California, United States of America	

have invented certain new and useful improvements in:

SYSTEMS AND METHODS FOR SIMULTANEOUSLY MEASURING FORWARD AND REVERSE SCATTERING PARAMETERS

- and have prepared a United States Provisional Patent Application disclosing and identifying the invention, said application having been filed on the 15th day of March, 2013, and assigned U.S. Provisional Patent Application No. 61/798,859.
- 2. and/or have executed on the 20th day of May, 2014, a declaration or oath for an application for a United States patent disclosing and identifying the invention and/or said application having been filed on the 1st day of March, 2013, and assigned U.S. Patent Application No. 14/213,171.

WHEREAS Anritsu Company (hereinafter termed "Assignee"), a corporation of the State of California, having a place of business at 490 Jarvis Drive, Morgan Hill, State of California, 95037, wishes to acquire the entire right, title and interest in and to said application(s) and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patent applications, patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

- 1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application(s) and said invention; (b) in and to all rights to apply in any and all countries of the world for patent applications, patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.
- 2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in

Page 1

Attorney Docket No.: ANRI-08124US1 mrobbins/anri/anri 8124us1_assignment.wpd

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- 3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.
- 4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date as given below and delivered this instrument to said Assignce:

DEC 19, 2014	Donald Anthony Bradley
State of	
County of)
On before	re me,
is subscribed to the within instrument and acknowledged	(name and title of officer) proved to me on the basis of satisfactory evidence to be the person whose name to me that he/she executed the same in his/her authorized capacity, and that entity upon behalf of which the person 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	

DEC 19, 201	\mathcal{L} (2)
Date	Karam-Michael Noujeim
State of	
State of)
County of)
On	before me,
is subscribed to the within instrumen	(name and title of officer), who proved to me on the basis of satisfactory evidence to be the person whose name that and acknowledged to me that he/she executed the same in his/her authorized capacity, and that the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERJ	JRY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official seal	
Signature	
******	**************
	(3) Jon S. Martens
Date	Jon S. Martens
¥	
State of	
County of	
On	before me, (name and title of officer)
personally appearedis subscribed to the within instrumen	(name and title of officer) , who proved to me on the basis of satisfactory evidence to be the person whose name tand acknowledged to me that he/she executed the same in his/her authorized capacity, and that the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERJU	JRY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.	
Signature	
1	

	(2)
Date	Karam Michael Noujeim
State of	
On	
personally appearedis subscribed to the within ins	, who proved to me on the basis of satisfactory evidence to be the person whose name trument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that trument the person, or the entity upon behalf of which the person 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 offici	al scal.
Signature	
12/19/14	**************************************
Date	Jon S. Mariens
State of	
County of	
On	before me,(name and title of officer)
personally appearedis subscribed to the within ins	, who proved to me on the basis of satisfactory evidence to be the person whose name trument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that trument the person, or the entity upon behalf of which the person 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 offic	ial seal.
Signature	
*****	******************

Page 3

Attorney Docket No.: ANRI-08124US1 mrobbins/anri/anri_8124us1_assignment.wpd

RECORDED: 11/10/2015