

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5164237

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE'S NAME WHICH IS SENSOR NETWORKS AND CELLULAR SYSTEMS RESEARCH CENTER previously recorded on Reel 038348 Frame 0990. Assignor(s) hereby confirms the ASSIGNEE'S NAME HAS A TYPOGRAPHICAL ERROR WHICH READS AS SENSOR NETWORKS AND CELLULAR SYSTEM CENTER, UNIVERSITY OF TABUK.

CONVEYING PARTY DATA

Name	Execution Date
RAED MESLEH	12/10/2017
SALAMA IKKI	12/12/2017
EL-HADI M. AGGOUNE	12/21/2017

RECEIVING PARTY DATA

Name:	SENSOR NETWORKS AND CELLULAR SYSTEMS RESEARCH CENTER
Street Address:	UNIVERSITY OF TABUK
Internal Address:	P.O. BOX 741
City:	TAUBK
State/Country:	SAUDI ARABIA
Postal Code:	71491

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	61897894
Application Number:	14141004
Application Number:	14972379

CORRESPONDENCE DATA

Fax Number: (305)858-0008
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: 3058588000
Email: patents@malloylaw.com
Correspondent Name: MALLOY & MALLOY, P.L.
Address Line 1: 2800 SW 3RD AVENUE
Address Line 4: MIAMI, FLORIDA 33129

ATTORNEY DOCKET NUMBER:	6674.1260A.15
NAME OF SUBMITTER:	PETER A. MATOS

SIGNATURE:	/Peter A. Matos/
DATE SIGNED:	09/28/2018
Total Attachments: 4 source=Cover_Sheet_038348_0990#page1.tif source=Signed_Assignments#page1.tif source=Signed_Assignments#page2.tif source=Signed_Assignments#page3.tif	

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3841442

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAED MESLELH	02/05/2014
EL-HADI M AGGOUNE	02/05/2014
SALAMA IKKI	02/10/2014
RECEIVING PARTY DATA	
Name:	SENSOR NETWORKS AND CELLULAR SYSTEM CENTER, UNIVERSITY OF TABUK
Street Address:	P.O. BOX 741
City:	TABUK
State/Country:	SAUDI ARABIA
Postal Code:	71491
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14972379
CORRESPONDENCE DATA	
Fax Number:	(305)858-0008
<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:	(305) 858-8000
Email:	patents@malloylaw.com
Correspondent Name:	MALLOY & MALLOY, P.L.
Address Line 1:	2800 SW THIRD AVENUE
Address Line 2:	HISTORIC CORAL WAY
Address Line 4:	MIAMI, FLORIDA 33129
ATTORNEY DOCKET NUMBER:	6674.1260A.15
NAME OF SUBMITTER:	PETER A. MATOS
SIGNATURE:	/PETER A. MATOS/
DATE SIGNED:	04/22/2016
Total Attachments: 3	
source=Signed_Assignments_1260A#page1.tif	
source=Signed_Assignments_1260A#page2.tif	

A S S I G N M E N T

(1) Insert Name(s) of Inventor(s) (1) Baed Mesleh, Salama Ikki and el-Hadi M. Aggoune
In consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to each of the undersigned, each of the undersigned assigns, transfers and sets over unto

(2) Insert Name(s) of Assignee (2) Sensor Networks and Cellular Systems Research Center
(3) Insert Address of Assignee (3) University of Tabuk, P.O. Box 741
Tabuk, Saudi Arabia 71491
(hereinafter designated as the Assignee), its successors and assigns, the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to the invention known as

(4) Insert Identification of Invention, (4) QUADRATURE SPATIAL MODULATION SYSTEM
For which the undersigned has (have) executed an application for patent in the United States of America on

(5) Insert Serial No. of Application(s) (5) U.S. Provisional Serial No. 61/897,894 filed on October 31, 2013; U.S. Utility Serial No. 14/141,004 filed on December 26, 2013; and U.S. Utility Serial No. 14/972,379 filed on December 17, 2015
and assigns, transfers and sets over to Assignee the entire right, title and interest in and to said application for patent in the United States of America and worldwide rights and any patents, original, reissue, continuation-in-part, divisional, substitute or extension, which may issue therefrom.

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward which such interference.


3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.


5) The undersigned hereby authorize(s) and request(s) the Commission of Patents to issue any and all Letters Patent of the United States resulting from said application or any divisional or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and the he has (they have) not executed, and will not execute, any agreement in conflict herewith.


The undersigned hereby grant(s) Jennie S. Malloy, Reg. No. 37,670; Peter A. Matos, Reg. No. 37,864; John Fulton, Jr., Reg. No. 45,716; David Roncayolo Betancourt, Reg. No. 75,026 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 10 December 2017 Inventor's Signature  (SEAL)
BAED MESLEH

This assignment should preferably be signed before a United States Consul. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

WITNESS
By: 
Print Name: RAMI ALAZERA

WITNESS
By: 
Print Name: Ala' Khalifeh

ASSIGNMENT

- (1) Insert Name(s) of Inventor(s): (1) Esra Gashah, Salama Ikki and el-Hadi M. Arjoune
in consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to each of the undersigned, each of the undersigned assigns, transfers and sets over unto
- (2) Insert Name(s) of Assignee: (2) Sensor Networks and Cellular Systems Research Center
(3) Insert Address of Assignee: (3) University of Tabuk, P.O. Box 741
Tabuk, Saudi Arabia 71491
(hereinafter designated as the Assignee), its successors and assigns, the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to the invention known as
- (4) Insert Identification of Invention: (4) QUADRATURE SPATIAL MODULATION SYSTEM
for which the undersigned has (have) executed an application for patent in the United States of America on
- (5) Insert Serial No. of Application(s): (5) U.S. Provisional Serial No. 61/897,894 filed on October 31, 2013; U.S. Utility Serial No. 14/141,004 filed on December 26, 2013; and U.S. Utility Serial No. 14/972,379 filed on December 17, 2015
and assigns, transfers and sets over to Assignee the entire right, title and interest in and to said application for patent in the United States of America and worldwide rights and any patents, original, reissue, continuation-in-part, divisional, substitute or extension, which may issue therefrom.

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward which such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commission of Patents to issue any and all Letters Patent of the United States resulting from said application or any divisional or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) Jennie S. Malloy, Reg. No. 37,679; Peter A. Bates, Reg. No. 37,834; John Fulton, Jr., Reg. No. 46,718; David Ponceyolo Betancourt, Reg. No. 75,026 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

12/12/2013

Inventor's Signature

SALAMA IKKI

(SEAL)

This assignment should preferably be signed before a United States Consul. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

WITNESSES

BY: Ahmad Cheema

WITNESSES

BY: Malek Al-Sady

WITNESSES

BY: MALEK

ASSIGNMENT

(1) Insert Name(s) of Inventor(s) (1) Kaed Mesleh, Salawa Turki and el-Hadi M. Aggoune
 In consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to each of the undersigned, each of the undersigned assigns, transfers and sets over unto

(2) Insert Name(s) of Assignee (2) Sensor Networks and Cellular Systems Research Center
 (3) Insert Address of Assignee (3) University of Tabuk, P.O. Box 741
 Tabuk, Saudi Arabia 71421
 (hereinafter designated as the Assignee), its successors and assigns, the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to the invention known as

(4) Insert Identification of Invention, (4) QUADRATURE SPATIAL MODULATION SYSTEM
 For which the undersigned has (have) executed an application for patent in the United States of America on

(5) Insert Serial No. of Application(s) (5) U.S. Provisional Serial No. 61/897,894 filed on October 31, 2013; U.S. Utility Serial No. 14/141,004 filed on December 26, 2013; and U.S. Utility Serial No. 14/972,379 filed on December 17, 2013
 and assigns, transfers and sets over to Assignee the entire right, title and interest in and to said application for patent in the United States of America and worldwide rights and any patents, original, reissue, continuation-in-part, divisional, substitute or extension, which may issue therefrom.

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- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward which such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commission of Patents to issue any and all Letters Patent of the United States resulting from said application or any divisional or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants) Jennie E. Malloy, Reg. No. 37,670; Peter A. Matos, Reg. No. 37,834; John Pulton, Jr., Reg. No. 46,716; David Noncayolo Betencourt, Reg. No. 75,626 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

21 December 2017 Inventor's Signature EL-HADI M. AGGOUNE (SEAL)

This assignment should preferably be signed before a United States Consul. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

WITNESS
 BY: [Signature]
 PRINT Name: Muhammad Ayaz

WITNESS
 BY: [Signature]
 PRINT Name: Faisal Ibrahim