

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3561123


SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the LAST INVENTOR'S NAME FROM 'BERNARD RAAF' TO 'BERNHARD RAAF' previously recorded on Reel 034258 Frame 0934. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNOR'S INTEREST.
CONVEYING PARTY DATA	
Name	Execution Date
ADEL A. ELSHERBINI	11/25/2014
TELESPHOR KAMGAING	11/11/2014
PABLO HERRERO	11/12/2014
BERNHARD RAAF	10/01/2015
RECEIVING PARTY DATA	
Name:	INTEL CORPORATION
Street Address:	2200 MISSION COLLEGE BOULEVARD
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14552587
CORRESPONDENCE DATA	
Fax Number:	(612)332-8352
<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>	
Email:	ILOH-Formals@cpaglobal.com
Correspondent Name:	FOREFRONT IP LAWGROUP, PLLC
Address Line 1:	C/O CPA GLOBAL
Address Line 2:	PO BOX 52050
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402
ATTORNEY DOCKET NUMBER:	P68275
NAME OF SUBMITTER:	SANJAY ROY
SIGNATURE:	/Sanjay Roy/
DATE SIGNED:	10/08/2015
Total Attachments: 10	

source=P68275_Corrective Assignment#page1.tif
source=P68275_Corrective Assignment#page2.tif
source=P68275_Corrective Assignment#page3.tif
source=P68275_Corrective Assignment#page4.tif
source=P68275_Corrective Assignment#page5.tif
source=P68275_Corrective Assignment#page6.tif
source=P68275_Corrective Assignment#page7.tif
source=P68275_Corrective Assignment#page8.tif
source=P68275_Corrective Assignment#page9.tif
source=P68275_Corrective Assignment#page10.tif

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>ADEL A. ELSHERBINI</td><td>11/25/2014</td></tr><tr><td>TELESPHOR KAMGAING</td><td>11/11/2014</td></tr><tr><td>PABLO HERRERO</td><td>11/12/2014</td></tr><tr><td>BERNARD RAAF</td><td>11/11/2014</td></tr></tbody></table>	Name	Execution Date	ADEL A. ELSHERBINI	11/25/2014	TELESPHOR KAMGAING	11/11/2014	PABLO HERRERO	11/12/2014	BERNARD RAAF	11/11/2014	
Name	Execution Date										
ADEL A. ELSHERBINI	11/25/2014										
TELESPHOR KAMGAING	11/11/2014										
PABLO HERRERO	11/12/2014										
BERNARD RAAF	11/11/2014										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>INTEL CORPORATION</td></tr><tr><td>Street Address:</td><td>2200 MISSION COLLEGE BLVD</td></tr><tr><td>City:</td><td>SANTA CLARA</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95054</td></tr></table>	Name:	INTEL CORPORATION	Street Address:	2200 MISSION COLLEGE BLVD	City:	SANTA CLARA	State/Country:	CALIFORNIA	Postal Code:	95054	
Name:	INTEL CORPORATION										
Street Address:	2200 MISSION COLLEGE BLVD										
City:	SANTA CLARA										
State/Country:	CALIFORNIA										
Postal Code:	95054										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14552587</td></tr></tbody></table>	Property Type	Number	Application Number:	14552587							
Property Type	Number										
Application Number:	14552587										
CORRESPONDENCE DATA											
Fax Number: (612)677-3572 											
Email: inteldocs_docketing@cpaglobal.com											
<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>											
Correspondent Name: EMMANUEL A. RIVERA											
Address Line 1: 2200 MISSION COLLEGE BLVD											
Address Line 4: SANTA CLARA, CALIFORNIA 95054											
ATTORNEY DOCKET NUMBER:	P68275										
NAME OF SUBMITTER:	EMMANUEL A. RIVERA										
Signature:	/Emmanuel A. Rivera/										
Date:	11/25/2014										
Total Attachments: 3 source=P68275_EXE_ASSIGN#page1.tif											

PATENT

source=P68275_EXE_ASSIGN#page2.tif
source=P68275_EXE_ASSIGN#page3.tif

RECEIPT INFORMATION


EPAS ID: PAT3121952
Receipt Date: 11/25/2014

PATENT

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**ADEL A. ELSHERBINI; TELESFOR KAMGAING; PABLO HERRERO; ~~BERNARD~~
RAAF**

Bernhard 

hereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

DUAL POLARIZED ANTENNA ARRAY

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on November 25, 2014 as
USA Application Number 14/552,587 and
COUNTRY or International Office

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and

the history thereof, and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Adel A. Elsherbini

Date signed

Telesphor Kamgaing

Date signed

Pablo Herrero


Date signed



~~Bernhard Raaf~~

Oct. 1st 2015

Date signed

Bernhard Raaf 

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**ADEL A. ELSHERBINI; TELESFOR KAMGAING; PABLO HERRERO; BERNARD
RAAF**

hereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

DUAL POLARIZED ANTENNA ARRAY

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on November 25, 2014 as
USA Application Number 14/552,587 and
COUNTRY or International Office

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and

the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Adel A. Elsherbini
Adel A. Elsherbini

11-25-2014
Date signed

Telesphor Kamgaing

Date signed

Pablo Herrero

Date signed

Bernard Raaf

Date signed

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**ADEL A. ELSHERBINI; TELESFOR KAMGAING; PABLO HERRERO; BERNARD
RAAF**

hereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

DUAL POLARIZED ANTENNA ARRAY

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on November 25, 2014 as
USA Application Number 14/552,587 and
COUNTRY or International Office

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;


and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and

the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Adel A. Elsherbini

Date signed



Telesphor Kamgaing

11-11-2014

Date signed



Pablo Herrero

12/10/2014

Date signed



Bernard Raaf

11-11-2014

Date signed