

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6267949

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the TYPOGRAPHICAL ERROR IN FIRST INVENTORS LAST NAME DARCY SHOULD BE D'ARCY previously recorded on Reel 038038 Frame 0775. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.
CONVEYING PARTY DATA	
Name	Execution Date
OLIVIER D'ARCY	08/25/2020
PAUL ALEPIN	10/02/2015
CHANG LEE	10/02/2015
LOUIS-PHILIPPE HAMELIN	10/02/2015
GUY-ARMAND KAMENDJE TCHOKOBOU	10/02/2015
PETER MAN KIN SINN	09/21/2015
JOHN EDWARD VINCENT	09/22/2015
RECEIVING PARTY DATA	
Name:	HUAWEI TECHNOLOGIES CO., LTD.
Street Address:	Huawei Administration Building
Internal Address:	Bantian, Longgang District
City:	Shenzhen, Guangdong
State/Country:	CHINA
Postal Code:	518129
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15005553
CORRESPONDENCE DATA	
Fax Number:	(972)732-9218
<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:	(972)732-1001
Email:	docketing@slatermatsil.com
Correspondent Name:	SLATER MATSIL, LLP
Address Line 1:	17950 PRESTON ROAD
Address Line 2:	SUITE 1000
Address Line 4:	DALLAS, TEXAS 75252
ATTORNEY DOCKET NUMBER:	HW 84577030US03

PATENT

NAME OF SUBMITTER:	MEGAN RUTHERFORD
SIGNATURE:	/Megan Rutherford/
DATE SIGNED:	08/26/2020

Total Attachments: 40

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 1, 2016

PTAS

MAUREEN SAVARD
2828 BOULEVARD LAURIER BUREAU 1500
COMPLEXE JULES-DALLAIRE/TOUR NORTON
ROSE
QUEBEC, G1V 0B9 CANADA

503671612

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 01/29/2016

REEL/FRAME: 037621/0363

NUMBER OF PAGES: 16

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 55958282-27US

ASSIGNOR:

DARCY, OLIVIER

DOC DATE: 10/02/2015

ASSIGNOR:

ALEPIN, PAUL

DOC DATE: 10/02/2015

ASSIGNOR:

LEE, CHANG

DOC DATE: 10/02/2015

ASSIGNOR:

HAMELIN, LOUIS-PHILIPPE

DOC DATE: 10/02/2015

ASSIGNOR:

KAMENDJE, GUY ARMAND

DOC DATE: 10/02/2015

ASSIGNOR:

SINN, PETER MAN-KIN

DOC DATE: 09/21/2015

ASSIGNOR:

VINCENT, JOHN EDWARD

DOC DATE: 09/22/2015

ASSIGNEE:

HUAWEI TECHNOLOGIES CO., LTD.
HUAWEI ADMINISTRATION BUILDING
BANTIAN, LONGGANG
SHENZHEN, CHINA 518129

APPLICATION NUMBER: 15005553

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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PATENT ASSIGNMENT COVER SHEET

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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>OLIVIER DARCY</td><td>10/02/2015</td></tr><tr><td>PAUL ALEPIN</td><td>10/02/2015</td></tr><tr><td>CHANG LEE</td><td>10/02/2015</td></tr><tr><td>LOUIS-PHILIPPE HAMELIN</td><td>10/02/2015</td></tr><tr><td>GUY ARMAND KAMENDJE</td><td>10/02/2015</td></tr><tr><td>PETER MAN-KIN SINN</td><td>09/21/2015</td></tr><tr><td>JOHN EDWARD VINCENT</td><td>09/22/2015</td></tr></tbody></table>	Name	Execution Date	OLIVIER DARCY	10/02/2015	PAUL ALEPIN	10/02/2015	CHANG LEE	10/02/2015	LOUIS-PHILIPPE HAMELIN	10/02/2015	GUY ARMAND KAMENDJE	10/02/2015	PETER MAN-KIN SINN	09/21/2015	JOHN EDWARD VINCENT	09/22/2015	
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State/Country:	CHINA																
Postal Code:	518129																
PROPERTY NUMBERS Total: 1																	

PATENT**REEL: 053601 FRAME: 0670**

Property Type	Number
Application Number:	15005553

CORRESPONDENCE DATA	
Fax Number:	
Email:	Maureen.Savard@nortonrosefulbright.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:	MAUREEN SAVARD
Address Line 1:	2828 BOULEVARD LAURIER BUREAU 1500
Address Line 2:	COMPLEXE JULES-DALLAIRE/TOUR NORTON ROSE
Address Line 4:	QUEBEC, CANADA G1V 0B9

ATTORNEY DOCKET NUMBER:	55958282-27US
NAME OF SUBMITTER:	ALEXANDRE DAOUST
Signature:	/Alexandre Daoust/
Date:	01/29/2016

Total Attachments: 14 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif source=Assignment#page12.tif source=Assignment#page13.tif source=Assignment#page14.tif

RECEIPT INFORMATION	
EPAS ID:	PAT3718247
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PATENT

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PATENT

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Huawei Technologies Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, having a principal place of business at Huawei Administration Building, Bantian, Longgang, Shenzhen, Guangdong, 518129 China, is desirous of acquiring my/our entire right, title and interest in the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we will assign, and hereby assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive right, title and interest in and to the invention in the United States and every other country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisional, reissues, reexaminations, National Phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every other country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner for Patents to issue U.S. patents for said invention, or patent resulting therefrom, insofar as my/our interest is concerned, to the Assignee agreeably with the terms of this assignment document.

I/we also hereby agree to sell and to assign, and sell and assign to Assignee, its successors and assigns, my/our international rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of any International Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I/we hereby further agree that I/we will communicate to Assignee, or its successors, assigns, and legal representative, any facts known to me/us respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all documents required for divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid such Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said

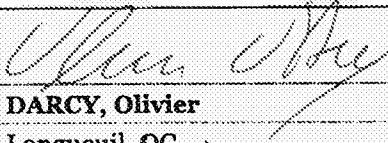
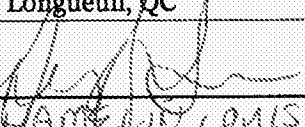
ASSIGNMENT

invention in all countries.

I/we hereby authorize Assignee to modify this Assignment at a later date for the purpose of adding information to better identify the invention, such as the application serial number, and filing date of a patent application filed thereon.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	DARCY, Olivier	Date 2015-10-02
Residence (City/State):	Longueuil, QC	
Signature of Witness:		
Witness Name:	DAMIEN LOUIS-PHILIPPE	Date OCT 2, 2015
Residence (City/State):	MONTREAL, QC	

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we will assign, and hereby assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive right, title and interest in and to the invention in the United States and every other country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisional, reissues, reexaminations, National Phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every other country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner for Patents to issue U.S. patents for said invention, or patent resulting therefrom, insofar as my/our interest is concerned, to the Assignee agreeably with the terms of this assignment document.

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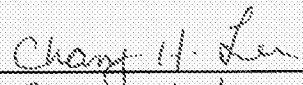
ASSIGNMENT

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I/we hereby authorize Assignee to modify this Assignment at a later date for the purpose of adding information to better identify the invention, such as the application serial number, and filing date of a patent application filed thereon.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:			
Inventor Name:	ALEPIN, Paul	Date	2015-10-02
Residence (City/State):	Montreal, QC		
Signature of Witness:			
Witness Name:	Chang H. Lee	Date	Oct 2, 2015
Residence (City/State):	Montreal, Qc		

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

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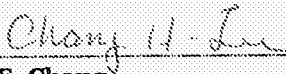
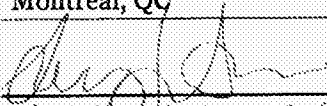
ASSIGNMENT

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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	LEE, Chang	Date Oct 2, 2015
Residence (City/State):	Montreal, QC	
Signature of Witness:		
Witness Name:	HAMELON LOUIS-PHILIPPE	Date OCT 2, 2015
Residence (City/State):	MONTREAL, QC	

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

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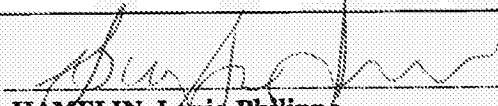

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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	HAMELIN, Louis-Philippe	Date: Oct 2, 2015
Residence (City/State):	Montreal, QC	
Signature of Witness:		
Witness Name:	GUY ARMAND HAMEL	Date: 2015-10-02
Residence (City/State):	VERDUN, Q.C.	

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ASSIGNMENT

invention in all countries.

I/we hereby authorize Assignee to modify this Assignment at a later date for the purpose of adding information to better identify the invention, such as the application serial number, and filing date of a patent application filed thereon.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	KAMENDJE, Guy Armand	Date 2015-10-02
Residence (City/State):	Verdun, QC	
Signature of Witness:		
Witness Name:	HAMELIN LOUIS-PHILIPPE	Date OCT 2 2015
Residence (City/State):	MONTREAL, QC	

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Huawei Technologies Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, having a principal place of business at Huawei Administration Building, Bantian, Longgang, Shenzhen, Guangdong, 518129 China, is desirous of acquiring my/our entire right, title and interest in the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

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	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	SINN, Peter Man-Kin	Date <u>Sept 21, 15</u>
Residence (City/State):	Nepean, ON	
Signature of Witness:		
Witness Name:	DENISON WATSON	Date <u>SEPT 21/15</u>
Residence (City/State):	OTTAWA, ON	

ASSIGNMENT

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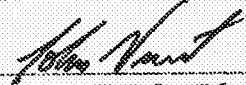
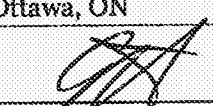
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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	VINCENT, John Edward	Date <u>Sept 22, 2015</u>
Residence (City/State):	Ottawa, ON	
Signature of Witness:		
Witness Name:	CRAG ELLIOTT	Date <u>SEPT 22, 2015</u>
Residence (City/State):	OTTAWA, ON.	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2016

PTAS

MAUREEN SAVARD
2828 BOULEVARD LAURIER BUREAU 1500
COMPLEXE JULES-DALLAIRE/TOUR NORTON
ROSE
QUEBEC, G1V 0B9 CANADA

503726988

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/08/2016

REEL/FRAME: 038038/0775

NUMBER OF PAGES: 17

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE 5TH INVENTOR NAME PREVIOUSLY RECORDED AT REEL: 037621 FRAME: 0363. ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT.

DOCKET NUMBER: 55958282-27US

ASSIGNOR:

DARCY, OLIVIER

DOC DATE: 10/02/2015

ASSIGNOR:

ALEPIN, PAUL

DOC DATE: 10/02/2015

ASSIGNOR:

LEE, CHANG

DOC DATE: 10/02/2015

ASSIGNOR:

HAMELIN, LOUIS-PHILIPPE

DOC DATE: 10/02/2015

ASSIGNOR:

KAMENDJE TCHOKOBOU, GUY-ARMAND

DOC DATE: 10/02/2015

ASSIGNOR:

SINN, PETER MAN-KIN

DOC DATE: 09/21/2015

ASSIGNOR:
VINCENT, JOHN EDWARD

DOC DATE: 09/22/2015

ASSIGNEE:
HUAWEI TECHNOLOGIES CO., LTD.
HUAWEI ADMINISTRATION BUILDING
BANTIAN, LONGGANG
SHENZHEN, CHINA 518129

APPLICATION NUMBER: 15005553

FILING DATE: 01/25/2016

PATENT NUMBER:

ISSUE DATE:

TITLE: PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT																
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF INVENTOR 5 previously recorded on Reel 037621 Frame 0363. Assignor(s) hereby confirms the NAME OF THE INVENTOR 5 ASBEING KAMENDJE TCHOKOBOU, GUY-ARMAND.																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>OLIVIER DARCY</td> <td>10/02/2015</td> </tr> <tr> <td>PAUL ALEPIN</td> <td>10/02/2015</td> </tr> <tr> <td>CHANG LEE</td> <td>10/02/2015</td> </tr> <tr> <td>LOUIS-PHILIPPE HAMELIN</td> <td>10/02/2015</td> </tr> <tr> <td>GUY-ARMAND KAMENDJE TCHOKOBOU</td> <td>10/02/2015</td> </tr> <tr> <td>PETER MAN-KIN SINN</td> <td>09/21/2015</td> </tr> <tr> <td>JOHN EDWARD VINCENT</td> <td>09/22/2015</td> </tr> </tbody> </table>		Name	Execution Date	OLIVIER DARCY	10/02/2015	PAUL ALEPIN	10/02/2015	CHANG LEE	10/02/2015	LOUIS-PHILIPPE HAMELIN	10/02/2015	GUY-ARMAND KAMENDJE TCHOKOBOU	10/02/2015	PETER MAN-KIN SINN	09/21/2015	JOHN EDWARD VINCENT	09/22/2015
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PETER MAN-KIN SINN	09/21/2015																
JOHN EDWARD VINCENT	09/22/2015																
RECEIVING PARTY DATA																	
<table border="1"> <tr> <td>Name:</td> <td>HUAWEI TECHNOLOGIES CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>HUAWEI ADMINISTRATION BUILDING</td> </tr> <tr> <td>Internal Address:</td> <td>BANTIAN, LONGGANG</td> </tr> <tr> <td>City:</td> <td>SHENZHEN</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td></td> <td></td> </tr> </table>		Name:	HUAWEI TECHNOLOGIES CO., LTD.	Street Address:	HUAWEI ADMINISTRATION BUILDING	Internal Address:	BANTIAN, LONGGANG	City:	SHENZHEN	State/Country:	CHINA						
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Street Address:	HUAWEI ADMINISTRATION BUILDING																
Internal Address:	BANTIAN, LONGGANG																
City:	SHENZHEN																
State/Country:	CHINA																

PATENT

REEL: 053601 FRAME: 0689

Postal Code:	518129
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15005553

CORRESPONDENCE DATA

Fax Number:

Email: Maureen.Savard@nortonrosefulbright.com

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.

Correspondent Name: MAUREEN SAVARD

Address Line 1: 2828 BOULEVARD LAURIER BUREAU 1500

Address Line 2: COMPLEXE JULES-DALLAIRE/TOUR NORTON ROSE

Address Line 4: QUEBEC, CANADA G1V 0B9

ATTORNEY DOCKET NUMBER:	55958282-27US
----------------------------	---------------

NAME OF SUBMITTER:	ALEXANDRE DAOUST
--------------------	------------------

Signature:	/Alexandre Daoust/
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Date:	03/08/2016
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Total Attachments: 15

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RECEIPT INFORMATION

PATENT

REEL: 053601 FRAME: 0690

EPAS ID:	PAT3773631
Receipt Date:	03/08/2016

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PATENT

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3718247

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	OLIVIER DARCY	10/02/2015
	PAUL ALEPIN	10/02/2015
	CHANG LEE	10/02/2015
	LOUIS-PHILIPPE HAMELIN	10/02/2015
	GUY ARMAND KAMENDJE	10/02/2015
	PETER MAN-KIN SINN	09/21/2015
	JOHN EDWARD VINCENT	09/22/2015
RECEIVING PARTY DATA		
Name:	HUAWEI TECHNOLOGIES CO., LTD.	
Street Address:	HUAWEI ADMINISTRATION BUILDING	
Internal Address:	BANTIAN, LONGGANG	
City:	SHENZHEN	
State/Country:	CHINA	
Postal Code:	518129	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15005553
CORRESPONDENCE DATA		
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Email:	Maureen.Savard@nortonrosefulbright.com	
Correspondent Name:	MAUREEN SAVARD	
Address Line 1:	2828 BOULEVARD LAURIER BUREAU 1500	
Address Line 2:	COMPLEXE JULES-DALLAIRE/TOUR NORTON ROSE	
Address Line 4:	QUEBEC, CANADA G1V 0B9	
ATTORNEY DOCKET NUMBER:	55958282-27US	
NAME OF SUBMITTER:	ALEXANDRE DAOUST	
SIGNATURE:	/Alexandre Daoust/	

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

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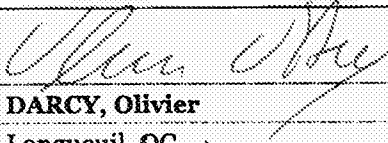
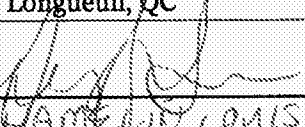
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	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	DARCY, Olivier	Date 2015-10-02
Residence (City/State):	Longueuil, QC	
Signature of Witness:		
Witness Name:	DAMIEN LOUIS-PHILIPPE	Date OCT 2, 2015
Residence (City/State):	MONTREAL, QC	

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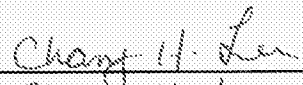
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	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:			
Inventor Name:	ALEPIN, Paul	Date	2015-10-02
Residence (City/State):	Montreal, QC		
Signature of Witness:			
Witness Name:	Chang H. Lee	Date	Oct 2, 2015
Residence (City/State):	Montreal, Qc		

ASSIGNMENT

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I/we hereby further agree that I/we will communicate to Assignee, or its successors, assigns, and legal representative, any facts known to me/us respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all documents required for divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid such Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said

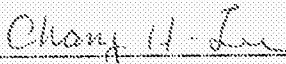
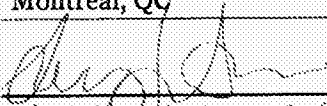
ASSIGNMENT

invention in all countries.

I/we hereby authorize Assignee to modify this Assignment at a later date for the purpose of adding information to better identify the invention, such as the application serial number, and filing date of a patent application filed thereon.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	LEE, Chang	Date Oct 2, 2015
Residence (City/State):	Montreal, QC	
Signature of Witness:		
Witness Name:	HAMEL LOUIS-PHILIPPE	Date OCT 2, 2015
Residence (City/State):	MONTREAL, QC	

ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Huawei Technologies Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, having a principal place of business at Huawei Administration Building, Bantian, Longgang, Shenzhen, Guangdong, 518129 China, is desirous of acquiring my/our entire right, title and interest in the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we will assign, and hereby assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive right, title and interest in and to the invention in the United States and every other country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisional, reissues, reexaminations, National Phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every other country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner for Patents to issue U.S. patents for said invention, or patent resulting therefrom, insofar as my/our interest is concerned, to the Assignee agreeably with the terms of this assignment document.

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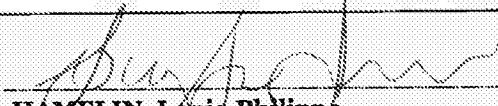

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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	HAMELIN, Louis-Philippe	Date 08-26-2015
Residence (City/State):	Montreal, QC	
Signature of Witness:		
Witness Name:	GUY ARMAND HAMELIN	Date 2015-10-02
Residence (City/State):	VERDUN, Q.C.	

ASSIGNMENT

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	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	KAMENDJE, Guy Armand	Date 2015-10-02
Residence (City/State):	Verdun, QC	
Signature of Witness:		
Witness Name:	HAMELIN LOUIS-PHILIPPE	Date OCT 2 2015
Residence (City/State):	MONTREAL, QC	

→ KAMENDJE TCHOKOBAN, Guy-Armand
GAK.

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	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	SINN, Peter Man-Kin	Date <u>Sept 21, 15</u>
Residence (City/State):	Nepean, ON	
Signature of Witness:		
Witness Name:	DENISON WATSON	Date <u>SEPT 21/15</u>
Residence (City/State):	OTTAWA, ON	

ASSIGNMENT

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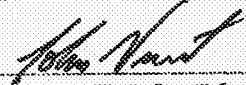
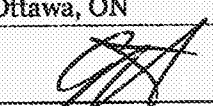
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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

Signature of Inventor:		
Inventor Name:	VINCENT, John Edward	Date <u>Sept 22, 2015</u>
Residence (City/State):	Ottawa, ON	
Signature of Witness:		
Witness Name:	CRAG ELLIOTT	Date <u>SEPT 22, 2015</u>
Residence (City/State):	OTTAWA, ON.	

ASSIGNMENT

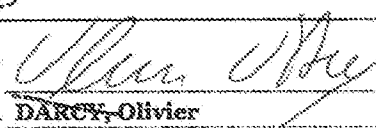
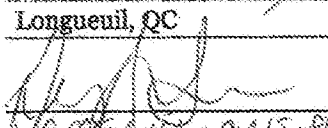
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Title of Invention	PROCESSOR AND METHOD OF HANDLING AN INSTRUCTION DATA THEREIN	
	Appl. No. US 62/210,121	Filing Date: August 26, 2015

2020/08/23

Signature of Inventor:		
Inventor Name:	D'Arcy, Olivier	Date 2015-10-02
Residence (City/State):	Longueuil, QC	
Signature of Witness:		
Witness Name:	DAMIEN LOUIS-PHILIPPE	Date OCT 2, 2015
Residence (City/State):	MONTREAL, QC	