PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

-

EPAS ID: PAT5149619

NATURE OF CONVEYANCE: Corrective Assignment to correct the RECEIVING PARTY STREET ADDRESS previously recorded on Reel 046655 Frame 0140. Assignor(s) hereby confirms the STREET ADDRESS CHANGE FROM 29, JINRONG AVE., XICHHENG DISTRICT TO 29 JINRONG AVE., XICHENG DISTRICT.	SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	NATURE OF CONVEYANCE:	ADDRESS previously recorded on Reel 046655 Frame 0140. Assignor(s) hereby confirms the STREET ADDRESS CHANGE FROM 29, JINRONG AVE., XICHENG DISTRICT TO 29 JINRONG AVE., XICHENG

CONVEYING PARTY DATA

Name	Execution Date
JUNSHUAI SUN	07/30/2018
YINGYING WANG	07/30/2018
XUEYAN HUANG	07/30/2018
CHIH-LIN I	07/30/2018

RECEIVING PARTY DATA

Name:	CHINA MOBILE COMMUNICATIONS CORPORATION	
Street Address:	29, JINRONG AVE., XICHENG DISTRICT	
City:	BEIJING	
State/Country:	te/Country: CHINA	
Postal Code:	100032	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16077967

CORRESPONDENCE DATA

Fax Number:

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: 7086088101

Email: julie@archlakelaw.com

Correspondent Name: SHEN WANG, ARCH & LAKE LLP

Address Line 1: 203 N LASALLE STREET

Address Line 2: SUITE 2100

Address Line 4: CHICAGO, ILLINOIS 60601

ATTORNEY DOCKET NUMBER:	163259.00015
NAME OF SUBMITTER:	SHEN WANG
SIGNATURE:	/Shen Wang/
DATE SIGNED:	09/20/2018

PATENT 505102859 REEL: 047113 FRAME: 0115

Total Attachments: 9 source=163259-00015_CoverPage#page1.tif source=163259-00015_DecAssignment#page1.tif source=163259-00015_DecAssignment#page2.tif source=163259-00015_DecAssignment#page3.tif source=163259-00015_DecAssignment#page4.tif source=163259-00015_DecAssignment#page5.tif source=163259-00015_DecAssignment#page6.tif source=163259-00015_DecAssignment#page7.tif source=163259-00015_DecAssignment#page8.tif

PATENT REEL: 047113 FRAME: 0116

505055608 08/21/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5102363

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNSHUAI SUN	07/30/2018
YINGYING WANG	07/30/2018
XUEYAN HUANG	07/30/2018
CHIH-LIN I	07/30/2018

RECEIVING PARTY DATA

Name:	CHINA MOBILE COMMUNICATIONS CORPORATION	
Street Address:	29, JINRONG AVE., XICHHENG DISTRICT	
City:	BEUING	
State/Country:	CHINA	
Postal Code:	100032	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16077967

CORRESPONDENCE DATA

Fax Number:

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Phone: 7086088101

Email: julie@archlakelaw.com

Correspondent Name: SHEN WANG, ARCH & LAKE LLP

Address Line 1: 203 N LASALLE STREET

Address Line 2: SUITE 2100

Address Line 4: CHICAGO, ILLINOIS 60601

ATTORNEY DOCKET NUMBER:	163259.00015
NAME OF SUBMITTER:	SHEN WANG
SIGNATURE:	/Shen Wang/
DATE SIGNED:	08/21/2018

Total Attachments: 8

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PATENT REEL: 047113 FRAME: 0117

Title of Invention	DATA PROCESSING METHOD ADAPTED TO ACCESS NETWORK ARCHITECTURE, ACCESS NETWORK ARCHITECTURE SYSTEM AND STORAGE MEDIUM
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to: ☑ The attached application, or
The above-	United States application or PCT international application numberfiled on dentified application was made or authorized to be made by me.
	t I am the original inventor or an original joint inventor of a claimed invention
	mowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.
parentheses	by authorize and request my attorney or representative to insert here in (patent Application number, filed) the filing olication number of said US application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to <u>CHINA MOBILE COMMUNICATIONS CORPORATION</u>, having a place of business at 29, Jinrong Ave., Xicheng District, Beijing 100032, CHINA. (hereinafter referred to as "ASSIGNEE") the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which is a national phase filing of PCT/CN2016/113861 filed on December 30, 2016; which in turn claims priority to CN_201610091390.7 filed on <a href="https://pcbmain.org/pc-ember 30, 2016; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

TO BE BINDING on the heirs; assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of Arch & Lake LLP the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

STATEMENTS

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

LEGAL NAME OF INVENTOR
Inventor: Junshual SUN Date: 7018, 7. 30
Signature: JujiSimui SUN

Title of Invention	DATA PROCESSING METHOD ADAPTED TO ACCESS NETWORK ARCHITECTURE, ACCESS NETWORK ARCHITECTURE SYSTEM AND STORAGE MEDIUM
As a below	ramed inventor, I hereby declare that:
This decla	ration
is directed	to: The attached application, or
	United States application or PCT international application numberfiled on
The above-i	dentified application was made or authorized to be made by me.
believe the in the applic	at I am the original inventor or an original joint inventor of a claimed invention eation.
	mowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.
	by authorize and request my attorney or representative to insert here in (patent Application number, filed) the filing

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

date and application number of said US application when known.

SELL, ASSIGN AND TRANSFER to CHINA MOBILE COMMUNICATIONS CORPORATION, having a place of business at 29. Jinrong Ave., Xicheng District, Beijing 100032, CHINA, (hereinafter referred to as "ASSIGNEE") the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which is a national phase filing of PCT/CN2016/113861 filed on December 30, 2016; which in turn claims priority to CN 201610091390.7 filed on February 18, 2016; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions:

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STATEMENTS

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	LEGAL NAME OF	INVENTOR
Inventor: Yingying WANG Date: 20/8: 7.30	Inventor: Yingying	WANG Date: 20/8; 7,30
Signature: Ying Uing Wang	Signature:	Ying ying Wang

	DATA PROCESSING METHOD ADAPTED TO ACCESS NETWORK ARCHITECTURE, ACCESS NETWORK ARCHITECTURE SYSTEM AND STORAGE MEDIUM
As a below	rnamed inventor, I hereby declare that:
This declar	ration
is directed	to:
agriga and an incidence of	United States application or PCT international application numberfiled on
i ne above-i	dentified application was made or authorized to be made by me.
I believe the in the applic	at I am the original inventor or an original joint inventor of a claimed invention action.
	knowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.
parentheses	by authorize and request my attorney or representative to insert here in (patent Application number, filed) the filing
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AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

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LEGAL NAME OF INVENTOR
Inventor: Xueyan HUANG: Date: 2018. 7.3.
Signature: Kaeysa HV8A6

Title of Invention	DATA PROCESSING METHOD ADAPTED TO ACCESS NETWORK ARCHITECTURE, ACCESS NETWORK ARCHITECTURE SYSTEM AND STORAGE MEDIUM		
As a below	As a below named inventor, I hereby declare that:		
This decla	This declaration		
is directed	to: The attached application, or		
	United States application or PCT international application numberfiled on		
The above-	dentified application was made or authorized to be made by me.		
believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
	knowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.		
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LEGAL NAME OF INVENTOR
Inventor: Chih-Lin Date: July 30 >018
Signature: /pub Linfully
Land to the state of the state

8

RECORDED: 09/20/2018