502812541 05/16/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2859135

		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY					
		Name	Execution Date		
DAHAI REN			05/16/2014		
LEI ZHANG			05/15/2014		
MING CHEN			05/16/2014		
RECEIVING PARTY	DATA				
Name:	VERIZ	VERIZON PATENT AND LICENSING INC.			
Street Address:	ONE V	ONE VERIZON WAY			
City:	BASKI	NG RIDGE			
State/Country:	NEW J	NEW JERSEY			
Postal Code:	07920				
PROPERTY NUMBE	DC Tatal: 1				
		Number	1		
Property Type Application Number: 142		14279833	-		
	•]		
CORRESPONDENC	E DATA				
Fax Number:					
	ll be sent t	a tha a wasil adduces fively if that is up.			
		o the e-mail address first; if that is uns	successiui, it will be sent via		
US Mail.		703-351-3579	successtul, it will be sent vi		
<i>US Mail.</i> Phone: Email:		703-351-3579 patents@verizon.com			
<i>US Mail.</i> Phone: Email: Correspondent Nam		703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF			
<i>US Mail.</i> Phone: Email: Correspondent Nam Address Line 1:		703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD			
		703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF			
US Mail. Phone: Email: Correspondent Nam Address Line 1: Address Line 2:	ne:	703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD 9TH FLOOR ARLINGTON, VIRGINIA 22201-2909			
US Mail. Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4:	ne: NUMBER:	703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD 9TH FLOOR ARLINGTON, VIRGINIA 22201-2909			
<i>US Mail.</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4:	ne: NUMBER:	703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD 9TH FLOOR ARLINGTON, VIRGINIA 22201-2909 20140256			
US Mail. Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET	ne: NUMBER:	703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD 9TH FLOOR ARLINGTON, VIRGINIA 22201-2909 20140256 SADIQ ANSARI			
US Mail. Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4: TTORNEY DOCKET IAME OF SUBMITTE	ne: NUMBER:	703-351-3579 patents@verizon.com VERIZON PATENT MANAGEMENT GF 1320 NORTH COURT HOUSE ROAD 9TH FLOOR ARLINGTON, VIRGINIA 22201-2909 20140256 SADIQ ANSARI /Sadiq Ansari/	ROUP		

source=20140256_Dahai_Ren_05-16_DA_0159#page1.tif source=20140256_Lei_Zhang_05-15_DA_0159#page1.tif

PATENT REEL: 032914 FRAME: 0476

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: <u>APPLICATION-SPECIFIC TRAFFIC MULTIPLEXING</u>

the patent application for which:

is being filed concurrently	herewith, Application Number to be ass	igned by the USPTO, or
was filed on	as United States Application Number	or PCT International Application
Number		

Declaration of Inventor

As the below named inventor, I hereby declare that:

- the above-identified application was made or authorized to be made by me;
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Inventor Assignment Acknowledgement

For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:

A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.

B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.

C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.

ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US

IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:

Full legal name of Inve	ntor: <u>Dahai Ren</u>		
Address: 8 Boyce Farm	Road, Lincoln, Massachusetts 01773,	United St	States
Signature:	As chai	Date:	5.16.2014

PATENT REEL: 032914 FRAME: 0477

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: APPLICATION-SPECIFIC TRAFFIC MULTIPLEXING

the patent application for which:

is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on ______ as United States Application Number ______ or PCT International Application Number .

Declaration of Inventor

As the below named inventor, I hereby declare that:

- the above-identified application was made or authorized to be made by me;
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced . application; and
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Inventor Assignment Acknowledgement

For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:

I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.

I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will Β. execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.

C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.

ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US

IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:

Full legal name of Inventor: Lei Zhang

Address: 2849 Ridge View Road, Frisco, Texas 75034, United States

Signature: _____

Date: 5/15/2014

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Parent Application Title APPLICATION SPECIFIC TRAFFIC MULTIPLEXING

the parent application for which.

St is being filed concurrently herewith, Application Number to be assigned by the USPTO, or readilities and the second sector of the second sector of the second sector. was that on _____ or PCT International Application Number _____ or PCT International Application Nummer

Declaration of Inventor

As the bolice particle incentor, I hereity declare that:

- the above identified application was made or sufficiented to be made by me;
- I believe that i on the original investor or an original joint investor of a claimed investion in the above-referenced. application; and
- I hereby acknowledge that any without take statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or manuscaused of not more than five (5) years, or both.

Inventor Association Acknowledgement

For great and extractive consideration, the receipt of which is hereby acknowledged. I agree as follows:

I hereby assign to the version legal entity identified below ("Assignee"), including its successors and assigns, my entire A. . evolution is right, this and interval in and is any part all incentions and other ideas described in the above-identified parent application. as well as in and to said application and all divisional, communing (in whole or in purt), substitute, redewal, triastic, provisional or camer argumations or regularizations for Lebres Patern which have been or shall be filed in the United States and all foreign countries based on any of said investions or ideas, or beard on or claiming priority to said application; and in mid to all original and reasonal preserve Parameteristic have been or shall be asseed in the United States and foreign countries from any of said applications or requirements, and many in all matter of parently resulting from the filling of any of said applications or regimentions (all collectively, far "Present Rights"). Letters Patent as used herrin shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convertion for the Protection of Industrial Property.

) some (i) that Assigned may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will 11 execute all eightful online declarations, assignments, powers of attorney and other papers related to the Phont Rights when remained by Assesses (or its processors major assigns) without compensation (but at Assigner's expense). (iii) that I appoint Assigner materia shreads its concentratives) as my atomes in fact, such appointment being prevocable and coupled with the interest in the Patient Regions, were full authority to my place and studi and in my name to take may action and to execute any document which Assistance mass down reasonably recovery or proceeder to accomplish the purposes of the assignment including the exaction and thing of the mount descended in term (a) in our same where permated by law, (iv) to communicate to Antigues, in smallerori, assigns interest and second all facts known to the relating to said Patent Rights and the lustony therefore and for the generality de everything which Actualty, its increasion, assigns, representatives or agains shall consider destructor for many in manifog and second second and the second parent Rights and for vesting title to said Pricent Rights in Assigned, its succession and some maintain

procession with Assistance, its autorescere and assigns, that no assignments grant, incategoigd, lidence, or other appearators affecting 1 the Plants Rights has been made to others by out, and that full right to output the surfaces as not furth fortein as passes and by one.

ASSIGNED. Version Parent and Electring (no., a Delevine Corporation with a place of balances as One Marizan Way, Busing Ridge, NJ 07920 US

IN WITHESS to my approximent to the foregoing Declaration of Terrenter and Diverser Assignment Acknowledgement. There executed on on forth helper.

i)aaka

Full level same of incomer: Ming Chen.

Address & Meeting, Brusse Carcie, Beetling, Meestinhusetts (H.759, Lingel M.R.17

RECORDED: 05/16/2014

PATENT REEL: 032914 FRAME: 0479

<u>S[26_fise</u>]Y