PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3454401

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIN LUO	04/28/2015
JUNJIE ZHANG	07/22/2015
KANG XI	04/24/2015
HUNG-HSIANG CHAO	04/24/2015

RECEIVING PARTY DATA

Name:	FUTUREWEI TECHNOLOGIES, INC.
Street Address:	5340 LEGACY DRIVE
Internal Address:	SUITE 175
City:	PLANO
State/Country:	TEXAS
Postal Code:	75024

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14695832

CORRESPONDENCE DATA

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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: 408-938-9060

Email: swarren@mhbpatents.com

MURABITO, HAO & BARNES LLP **Correspondent Name:** Address Line 1: TWO NORTH MARKET STREET

THIRD FLOOR Address Line 2:

Address Line 4: SAN JOSE, CALIFORNIA 95113

ATTORNEY DOCKET NUMBER:	HW-91013177US02
NAME OF SUBMITTER:	JAMES P. HAO
SIGNATURE:	/James P. Hao/
DATE SIGNED:	07/24/2015

Total Attachments: 5

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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, Futurewei Technologies, Inc. ("Assignee"), a corporation organized and existing under the laws of Texas, with its principal office at 5340 Legacy Drive, Suite 175, Plano, TX 75024 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 foreign 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 foreign 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 interest is concerned, to the Assignee agreeably with the terms of this assignment document.

I also hereby agree to sell and to assign, and sell and assign to Assignee, its successors and assigns, my foreign 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 the 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 hereby further agree that I will communicate to Assignee, or its successors, assigns, and legal representative, any facts know to me 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 divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid such Futurewei, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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

Futurewei Technologies, Inc. Patent Reference No. 91013177US02

Page 1 of 2

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

Title of Invention	APPARATUS AND METI	IOD FOR DYNAMIC HYBRID
	ROUTING IN SDN NETWORKS	S TO AVOID CONGESTION AND
	BALANCE LOADS UNDER	CHANGING TRAFFIC LOAD
	Appl. No.	Filing Date:
	14/695,832	04/24/2015

Signature of Inventor:	Min Jus		
Inventor Name:	Min LUO	Date \$/28 4 2 0 (15
Residence (City/State):	San Jose, CA	THE DOUBLE STREET AND ASSESSED	reizekusekozarfareizadikiekoz reizekelikkizánközkukizkuki
Signature of Inventor:			
Inventor Name:	Junjie ZHANG	Date	намина и врога за востана
Residence (City/State):	Brooklyn, NY	Täkida 14 (14 (14 (14 (14 (14 (14 (14 (14 (14	
Signature of Inventor:			
Inventor Name:	Kang XI	Date	
Residence (City/State):	Morganville, NJ		ag i ag gg a gambang a bi abarban anton a Ca di an manan di ril distribubil 1830 r
Signature of Inventor:			
Inventor Name:	Hung-Hsiang CHAO	Date	workers since the state of the state of
Residence (City/State):	Holmdel, NJ	INDECENTION (ALTERNATION (ALTERNATION AND AND AND AND AND AND AND AND AND AN	97 8 3 (#366%35736.48764897)

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	14/695,832	04/24/2015	

Signature of Inventor:			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Inventor Name:	Min LUO	Date	
Residence (City/State):	San Jose, CA		,,
Signature of Inventor:	India May		
Inventor Name:	Junjie ZHANG	Date	July 22, 2015
Residence (City/State):	Brooklyn, NY	13}}999999999999999	
Signature of Inventor:			
Inventor Name:	Kang XI	Date	
Residence (City/State):	Morganville, NJ		
Signature of Inventor:		·····	
Inventor Name:	Hung-Hsiang CHAO	Date	######################################
Residence (City/State):	Holmdel, NJ		

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Title of Invention	APPARATUS AND METHOD FOR DYNAMIC HYBRID		
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		CHANGING TRAFFIC LOAD	
	Appl. No.	Filing Date:	
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p.			
Signature of Invento	r:		
Inventor Name:	Min LUO	Date	
Residence (City/Stat	e): San Jose, CA		
Signature of Invento	::		
Inventor Name:	Junjie ZHANG	Date	
Residence (City/Stat	e): Brooklyn, NY	2,7434	
	3820		
Signature of Inventor	r: Claren		
Inventor Name:	Kang XI	Date 4/24/2015	
Residence (City/State	e): Morganville, NJ		
Signature of Inventor	r.		
Inventor Name:	Hung-Hsiang CHAO	Date	
Residence (City/State		The state of the s	

patent protection for said invention in all countries.

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

Title of Invention	APPARATUS AND METH	HOD FOR DYNAMIC HYBRID	
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	BALANCE LOADS UNDER CHANGING TRAFFIC LOAD		
	Appl. No.	Filing Date:	
And the state of t	14/695,832	04/24/2015	

Signature of Inventor:			
Inventor Name:	Min LUO	Date	renam k 936074 47064904 KOKK316807 BYERNCERSJYRYKER32189045JYRB
Residence (City/State):	San Jose, CA		
Signature of Inventor:			
Inventor Name:	Junjie ZHANG	Date	•
Residence (City/State):	Brooklyn, NY	inaka sara endigirara bi Bah karatigan elanga sara bahandan akaya Mahaya saga gapar Part	t Elickesty Disnephilas Sanksanyit kasanaisen ekiszt kejes á úrjászt asone
Signature of Inventor:			
Inventor Name:	Kang XI	Date	t timo, pa no tanta pi anni un'i cahagan da matina tinasanyoni pirasany
Residence (City/State):	Morganville, NJ	nganatas ti disebahan da 191 - Nagaba ti satu sa 1920 kananan kanan da 1931 dan kini ti jat rajah	ir par tiggi ang
Signature of Inventor:	H. Jowonichan	A 1/1 foot to 1 de la 1 santa est sense que merce a ser sense de la company de la company de la company de la compa	······································
Inventor Name:	Hung-Hsiang CHAO	Date 4	124/2015
Residence (City/State):	Holmdel, NJ		

Futurewei Technologies, Inc. Patent Reference No. 91013177US02 Page 2 of 2