504948315 06/07/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4995062

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WENFEI FAN	05/22/2018
YANG CAO	05/22/2018
FLORIS GEERTS	05/22/2018
PING LU	05/23/2018
YU CHEN	05/21/2018
DEMAI NI	05/22/2018

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:	15966465

CORRESPONDENCE DATA

Fax Number: (972)731-2289

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: 972-731-2288

Email: dallaspatents@dfw.conleyrose.com

Correspondent Name: WILLIAM H. DIETRICH

Address Line 1: 5601 GRANITE PARKWAY, SUITE 500

Address Line 4: PLANO, TEXAS 75024-6616

ATTORNEY DOCKET NUMBER:	4502-28901 (85391209US02)
NAME OF SUBMITTER:	BRANDT D. HOWELL
SIGNATURE:	/Brandt D. Howell/
DATE SIGNED:	06/07/2018

PATENT REEL: 046009 FRAME: 0135

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Total Attachments: 7 source=4502-28901 Filed Assignment#page1.tif source=4502-28901 Filed Assignment#page2.tif source=4502-28901 Filed Assignment#page3.tif source=4502-28901 Filed Assignment#page4.tif source=4502-28901 Filed Assignment#page5.tif source=4502-28901 Filed Assignment#page6.tif source=4502-28901 Filed Assignment#page7.tif

PATENT REEL: 046009 FRAME: 0136

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 known 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.

Futurewei Technologies, Inc. Patent Reference No. 85391209US02 Conley Rose File: 4502-28901

Page 1 of 2

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

Title of Invention	Bounded Query Rewriting Using Views	
	Appl. No. 15/966,465	Filing Date: April 30, 2018
Signature of Inventor	13/300,703 UJ- S	74pm 30, 2010
Inventor Name	Wenfei Fan	Ping Lu
Date	May 22, 2018	
Residence (City/State)	Wayne, Pennsylvania	Beijing, China
Signature of Inventor		
Inventor Name	Yang Cao	Yu Chen
Date		
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of Inventor		
Inventor Name	Floris Geerts	Demai Ni
Date		
Residence (City/State)	Berchem, Belgium	Danville, California

Futurewei Technologies, Inc. Patent Reference No. 85391209US02 Conley Rose File: 4502-28901

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Signature of Inventor		
Inventor Name	Wenfei Fan	Ping Lu
Date		
Residence (City/State)	Wayne, Pennsylvania	Beijing, China
Signature of Inventor	Lag Cas	
Inventor Name	Yang Cao	Yu Chen
Date	May 22, 2018	
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of Inventor		
Inventor Name	Floris Geerts	Demai Ni
Date		
Residence (City/State)	Berchem, Belgium	Danville, California

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Date		
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Signature of Inventor		
Inventor Name	Yang Cao	Yu Chen
Date		
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of Inventor	Hayent	
Inventor Name	Floris Geerts	Demai Ni
Date	05/22/2018	
Residence (City/State)	Berchem, Belgium	Danville, California

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Title of Invention	Bounded Query Rewriting Using Views	
	Appl. No. 15/966,465	Filing Date: April 30, 2018
Signature of		p
Inventor		Tang La
Inventor Name	Wenfei Fan	Ping Lu
Date		May 23rd, 2018
Residence (City/State)	Wayne, Pennsylvania	Beijing, China
Signature of		
Inventor		
Inventor Name	Yang Cao	Yu Chen
Date		
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of Inventor		
Inventor Name	Floris Geerts	Demai Ni
Date		
Residence (City/State)	Berchem, Belgium	Danville, California

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	Appl. No.	Filing Date:
	15/966,465	April 30, 2018
Signature of Inventor		
Inventor Name	Wenfei Fan	Ping Lu
Date		
Residence (City/State)	Wayne, Pennsylvania	Beijing, China
Signature of Inventor		1222
Inventor Name	Yang Cao	Yu Chen
Date		5/21/2018
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of Inventor		
Inventor Name	Floris Geerts	Demai Ni
Date		
Residence (City/State)	Berchem, Belgium	Danville, California

Futurewei Technologies, Inc. Patent Reference No. 85391209US02 Conley Rose File: 4502-28901

aid such Futurewei, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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Title of Invention	Bounded Query Rewriting Using Views	
	Appl. No.	Filing Date:
	15/966,465	April 30, 2018
Signature of Inventor		
Inventor Name	Wenfei Fan	Ping Lu
Date		
Residence	Warna Damaria	Dailing China
(City/State)	Wayne, Pennsylvania	Beijing, China
Signature of		
Inventor		
Inventor Name	Yang Cao	Yu Chen
Date		
Residence (City/State)	Edinburgh, Scotland, United Kingdom	San Jose, California
Signature of		$\sim 2 \Lambda$
Inventor		
Inventor Name	Floris Geerts	Demai Ni
Date		04 7:2018
Residence (City/State)	Berchem, Belgium	Danville, California

Futurewei Technologies, Inc. Patent Reference No. 85391209US02 Conley Rose File: 4502-28901 Page 2 of 2

PATENT REEL: 046009 FRAME: 0143

RECORDED: 06/07/2018