504597509 10/17/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4644221

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOUNG HOON KWON	10/09/2017
BIN LIU	10/16/2017
PENGFEI XIA	10/16/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15785834

CORRESPONDENCE DATA

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KEVIN R. SPIVAK **Correspondent Name:**

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ATTORNEY DOCKET NUMBER: FTRW-01175US1 **NAME OF SUBMITTER:** KEVIN R. SPIVAK SIGNATURE: /Kevin R. Spivak/ **DATE SIGNED:** 10/17/2017

Total Attachments: 2

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> **PATENT** REEL: 043883 FRAME: 0806 504597509

ASSIGNMENT

WHEREAS, We, the undersigned inventors (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, 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.

We 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.

We hereby further agree that we 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. 85522402US02

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

Title of Invention	APPARATUS AND METHOD FOR BEAM FAILURE RECOVERY		
	Appl. No. 15/785,834	Filing Date: October 17, 2017	
Signature of Inventor			
Inventor Name	Young Hoon Kwon		
Date	10/9/2017		
Residence	, , ,		
(City/State)	Laguna Niguel, California		
Signature of Inventor			
Inventor Name	Bin Liu		
Date	10116/2017		
Residence			
(City/State)	San Diego, California		
Signature of Inventor	must be		
Inventor Name	Pengfei Xia		
Date	(°1(¢ / /2)		
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Futurewei Technologies, Inc. Patent Reference No. 85522402US02

RECORDED: 10/17/2017

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