

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Cao Shi</td> <td>05/15/2013</td> </tr> <tr> <td>Amir H. Fazlollahi</td> <td>05/13/2013</td> </tr> <tr> <td>Jianhua Liu</td> <td>05/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Cao Shi	05/15/2013	Amir H. Fazlollahi	05/13/2013	Jianhua Liu	05/15/2013
Name	Execution Date								
Cao Shi	05/15/2013								
Amir H. Fazlollahi	05/13/2013								
Jianhua Liu	05/15/2013								
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									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13875447</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13875447				
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Application Number:	13875447								
CORRESPONDENCE DATA									
Fax Number:	9727312289								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	4194-57101 (83475388US02)								
NAME OF SUBMITTER:	Clint Wilkins								
Signature:	/Clint Wilkins/								

Date:

06/19/2013

Total Attachments: 4

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ASSIGNMENT

WHEREAS, the Undersigned has invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Futurewei Technologies, Inc. (hereinafter referred to as "Assignee"), a corporation organized and existing under the laws of the State of Texas, United States of America, Assignee, having its principal office and place of business at 5340 Legacy Drive, Suite 175, Plano, Texas 75024, desires to acquire the Undersigned's entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the Undersigned:

Hereby sells, assigns and transfers to Assignee, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Application No. 13/875,447 filed May 2, 2013 or, if not identified here by filing date and application number, executed by me on even date, entitled:

Aligning the Upstream DMT Symbols of Multiple Lines in a TDD DSL System

and in and to said application and all applications that claim priority to said Application No. 13/875,447 and all provisional, non-provisional, divisional, continuing, continuations-in-part, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all utility models, industrial models, certificates of invention, and designs on said improvements;

Agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, 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, and all other like rights of exclusion in any country on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known to the Undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Agrees that the Undersigned will upon request of Assignee, render prompt assistance and cooperation in the prosecution of legal proceedings involving said improvements, said applications and patents granted thereon, including reexaminations, reissues, interferences, priority contests, public use proceedings and court proceedings, and testify in such proceedings if requested, provided, however, that the expense which may be incurred by the Undersigned in lending such assistance and cooperation be paid by Assignee; and

Covenants with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the Undersigned, except as set forth below, and that full right to convey the same as herein expressed is possessed by the Undersigned.

This assignment shall be binding on the heirs and legal representatives of the Undersigned.

Full name of first inventor: Cao Shi

Residence Address: B102 Mudanyuan Sijihuacheng Bantian
Shenzhen, Guangdong, China

Citizenship: China

Cao Shi
Cao Shi

2013-05-15
(Date)

Full name of second inventor: Amir H. Fazlollahi
Residence Address: 2059 Heather Glen Drive
San Jose, California 95130
Citizenship: US

Amir H. Fazlollahi
Amir H. Fazlollahi

2013/05/13
(Date)

Full name of third inventor: Jianhua Liu
Residence Address: F4-3-A83S Huawei Industrial Base
Bantian, Longgang District
Shenzhen, 518129 China
Citizenship: China

Jianhua Liu

Jianhua Liu

2013-05-15

(Date)