

TO:GRANT RODOLPH COMPANY:5700 GRANITE PARKWAY, STE. 330

<b>PATENT ASSIGNMENT</b>
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Electronic Version v1.1  
 Stylesheet Version v1.1

**05/10/2007**  
**500274283**

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Application number previously recorded on Reel 019239 Frame 0545. Assignor(s) hereby confirms the Correct Application number is 11/740,993.
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Frank J. Effenberger	04/26/2007
<b>RECEIVING PARTY DATA</b>	
Name:	Futurewei Technologies, Inc.
Street Address:	1700 Alma Drive
Internal Address:	Suite 100
City:	Plano
State/Country:	TEXAS
Postal Code:	75075
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	11740993
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(972)731-2289
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	972-731-2288
Email:	dallaspatents@dfw.conleyrose.com
Correspondent Name:	Grant Rodolph
Address Line 1:	5700 Granite Parkway, Ste. 330
Address Line 2:	Conley Rose, P.C.
Address Line 4:	Plano, TEXAS 75024
<b>ATTORNEY DOCKET NUMBER:</b>	4194-04300
<b>NAME OF SUBMITTER:</b>	Grant Rodolph
Total Attachments: 2	

CH \$40.00 11740993

700324545

**PATENT**  
**REEL: 019286 FRAME: 0029**

TO: GRANT RODOLPH COMPANY: 5700 GRANITE PARKWAY, STE. 330

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TO: GRANT RODOLPH COMPANY: 5700 GRANITE PARKWAY, STE. 330

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.105/02/2007  
500269414

<b>SUBMISSION TYPE:</b>		NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>		ASSIGNMENT
<b>CONVEYING PARTY DATA</b>		
Name		Execution Date
Frank J. Effenberger		04/26/2007
<b>RECEIVING PARTY DATA</b>		
Name:	Futurawei Technologies, Inc.	
Street Address:	1700 Alma Drive	
Internal Address:	Suite 100	
City:	Plano	
State/Country:	TEXAS	
Postal Code:	75075	
<b>PROPERTY NUMBERS Total: 1</b>		
Property Type	Number	
Application Number:	11740933	
<b>CORRESPONDENCE DATA</b>		
Fax Number:	(972)731-2289	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>		
Phone:	972-731-2288	
Email:	dallaspatents@dfw.conleyrose.com	
Correspondent Name:	Grant Rodolph	
Address Line 1:	5700 Granite Parkway, Ste. 330	
Address Line 2:	Conley Rose, P.C.	
Address Line 4:	Plano, TEXAS 75024	
<b>ATTORNEY DOCKET NUMBER:</b>	4194-04300	
<b>NAME OF SUBMITTER:</b>	Grant Rodolph	
Total Attachments: 2 source=4194-04300_Assignment#page1.tif source=4194-04300_Assignment#page2.tif		

CH \$40.00 11740933

TO: GRANT RODOLPH COMPANY; 5700 GRANITE PARKWAY, STE. 330

*Attorney Docket No. 4194-04300*

PATENT

### 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"), an 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 1700 Alma Drive, Suite 100, Plano, Texas 75075, 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. 11/740,993, filed April 27, 2007, or, if not identified here by filing date and application number, executed by me on even date, entitled:

#### PASSIVE OPTICAL NETWORK WITH PARTIALLY-TUNED LASERS

and in and to said application and all applications that claim priority to said Application No. 11/740,993 and all provisional, divisional, continuing, 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

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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 sole inventor: Frank J. Effenberger

Residence Address: 147 Pleasant Knoll Way  
Freehold, New Jersey 07728

Citizenship: US



Frank J. Effenberger

26 Apr 2007

(Date)



Witness Signature

Hai Sheng Wang

Witness Name (Print)