

PATENT ASSIGNMENT

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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>Tao Zeng</td> <td>11/28/2011</td> </tr> <tr> <td>Qi Yang</td> <td>11/28/2011</td> </tr> <tr> <td>Zhu Yang</td> <td>11/28/2011</td> </tr> <tr> <td>Shaohua Yu</td> <td>12/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	Tao Zeng	11/28/2011	Qi Yang	11/28/2011	Zhu Yang	11/28/2011	Shaohua Yu	12/12/2011
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Tao Zeng	11/28/2011										
Qi Yang	11/28/2011										
Zhu Yang	11/28/2011										
Shaohua Yu	12/12/2011										
RECEIVING PARTY DATA											
Name:	Wuhan Research Institute of Posts and Telecommunications										
Street Address:	#88, Youkeyuan Lu, Hongshan District										
City:	Wuhan City, Hubei Province										
State/Country:	CHINA										
Postal Code:	430074										
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>13333247</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13333247						
Property Type	Number										
Application Number:	13333247										
CORRESPONDENCE DATA											
Fax Number:	(312)321-4299										
Phone:	3123214200										
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Brinks Hofer Gilson & Lione										
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ATTORNEY DOCKET NUMBER:	14646/3										
NAME OF SUBMITTER:	G. Peter Nichols										
Total Attachments: 4 source=111221USPTORecordationOfAssignmentCoverSheet14646-3#page1.tif source=111221executedAssignment14646-3#page1.tif source=111221executedAssignment14646-3#page2.tif source=111221executedAssignment14646-3#page3.tif											

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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:

1. Name of conveying Party(ies): <p style="text-align: center;">Tao Zeng Qi Yang Zhu Yang Shaohua Yu</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	2. Name and Address of receiving Party(ies): <p>Name: Wuhan Research Institute of Posts and Telecommunications</p> <p>Street Address: 88, Youkeyuan Lu Hongshan District Wuhan City, Hubei Province 430074 China</p> <p>Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
3. Nature of Conveyance/Execution Date(s): <p>Execution Date(s) Tao Zeng: November 28, 2011; Qi Yang: November 28, 2011; Zhu Yang: November 28, 2011; Shaohua Yu: December 12, 2011</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other: _____</p>	4. Application or Patent Number(s). <input type="checkbox"/> This document is being filed together with a new application. <p>A. Patent Application No.(s): 13/333,247 filed December 21, 2011</p> <p>B. Patent No.(s):</p> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
5. Name and address of party to whom correspondence concerning document should be mailed: <p style="text-align: center;">BRINKS HOFER GILSON & LIONE PO BOX 10395 CHICAGO, IL 60610 Phone: (312) 321-4200 Fax: (312) 321-4299</p>	6. Total no. of applications & patents involved: <u>1</u> 7. Total Fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input type="checkbox"/> Authorize charge by credit card <input checked="" type="checkbox"/> Authorize charge to Deposit Account No. 23-1925 <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) 8. Payment Information: <p>a. <input type="checkbox"/> Credit Card: Last 4 Numbers Expiration Date</p> <p>b. <input checked="" type="checkbox"/> Charge fee and/or any Deficiencies to Deposit Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione</p>
9. Signature: _____ <p style="text-align: center;">/G. Peter Nichols/ Signature</p> <p style="text-align: center;">G. Peter Nichols Name of Person Signing</p>	<p style="text-align: center;">December 21, 2011 Date</p> <p>Total no. of pages including coversheet, attachments and documents: <u>4</u></p>

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, PO Box 1450, Alexandria, VA 22313-1450

PATENT
REEL: 027428 FRAME: 0199

ASSIGNMENT

WHEREAS, Tao Zeng, Qi Yang, Zhu Yang, and Shaohua Yu, hereinafter called the "Assignors", have made the invention described in Chinese patent application No. 201110330633.5 filed on October 27, 2011 and described in United States patent application entitled Modulation Device and Modulation Method, and Demodulation Device and Demodulation Method, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, Wuhan Research Institute of Posts and Telecommunications, a corporation organized and existing under the laws of China, having a place of business at #88, Youkeyuan Lu, Hongshan District, Wuhan City, Hubei Province, 430074 China, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE:	<u>11/28/2011</u>	<u>曾榕</u> Tao Zeng
WITNESSED:		
DATE:	<u>11/28/2011</u>	<u>胡子晨</u>
DATE:	<u>11/28/2011</u>	<u>谢晓松</u>
DATE:	<u>11/28/2011</u>	<u>齐阳</u> Qi Yang
WITNESSED:		
DATE:	<u>11/28/2011</u>	<u>胡子晨</u>
DATE:	<u>11/28/2011</u>	<u>胡子晨</u>

DATE: 11/28/2011 朱子阳
Zhu Yang

WITNESSED:

DATE: 11/28/2011 刘子晨

DATE: 11/28/2011 谢德权

DATE: 12/12/11 余华
Shaohua Yu

WITNESSED:

DATE: 14/12/11 林青

DATE: 14/12/11 刘延斌