

# PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Yu-Chuan FANG	05/04/2009
Ren-Jr CHEN	05/04/2009
<b>RECEIVING PARTY DATA</b>	
Name:	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE
Street Address:	No. 195, Sec. 4, Chung Hsing Rd., Chutung
City:	Hsinchu
State/Country:	TAIWAN
Postal Code:	31040
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	12434868
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(202)408-4400
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202-408-4000
Email:	renee.moore@finnegan.com
Correspondent Name:	Richard V. Burgujian
Address Line 1:	Finnegan Henderson et al.
Address Line 2:	901 NEW YORK AVENUE, NW
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20001-4413
ATTORNEY DOCKET NUMBER:	06720.0225
NAME OF SUBMITTER:	Renee Moore
Total Attachments: 3 source=0225ASSIGNMENT#page1.tif source=0225ASSIGNMENT#page2.tif	

OP \$40.00 12434868

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**PATENT**  
**REEL: 022632 FRAME: 0549**

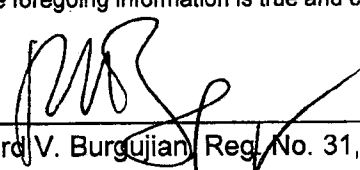


**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 06720.0225

**To the Director of the U.S. Patent and Trademark Office:**  
Please record the attached original documents or copy thereof.

**Mail Stop Assignment Recordation Services**

<b>1. Name of conveying parties:</b> Yu-Chuan FANG Ren-Jr CHEN		<b>2. Name and address of receiving party:</b> Name: <b>INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE</b>	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address:	
<b>3. Nature of conveyance:</b>		Street Address: <b>No. 195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu 31040, Taiwan, R.O.C.</b>	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City:	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State:	Zip Code:
<input type="checkbox"/> Joint Research Agreement	<input type="checkbox"/> Government Interest Assignment	Additional name(s) & Address(es) attached? <div style="text-align: center;"> <input type="checkbox"/> Yes      <input checked="" type="checkbox"/> No                 </div>	
<input type="checkbox"/> Executive Order 9494, Confirmatory License	<input type="checkbox"/> Other:		
Execution Date: <b>May 4, 2009</b>			
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application: <b>May 4, 2009</b>			
<b>A. Patent Application Number(s):</b>		<b>B. Patent Number(s):</b>	
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>		<b>6. Total number of applications and patents involved:</b> 1	
Name: <b>Richard V. Burgujian</b> (202) 408-4000		<b>7. Total fee (37 CFR 1.21(h) and 3.41): \$40</b> <input checked="" type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916) <input type="checkbox"/> Authorized to be charged to deposit account	
Internal Address: <b>FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.</b>			
Street Address: <b>901 New York Avenue, N.W.</b>			
City: <b>Washington, D.C.</b>			
State:	Zip: <b>20001-4413</b>	<b>8. Deposit Account No.: 06-0916</b>	
<b>9. Statement and signature.</b> To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Signed: 		<b>May 4, 2009</b>	
Richard V. Burgujian Reg. No. 31,744		Date	
Total number of pages including cover sheet, attachments and documents: <b>3</b>			

6/2007

**PATENT  
REEL: 022632 FRAME: 0551**

## ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

### METHODS AND APPARATUS FOR TRANSMITTING/RECEIVING DATA IN A COMMUNICATION SYSTEM

for which We executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, Industrial Technology Research Institute, a corporation of R.O.C. whose post office address is No. 195, Sec. 4, Chung Hsing Road, Chutung, Hsinchu, 31040 Taiwan R.O.C., (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional Application No. **61/071,550** filed **May 5, 2008**, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional applications, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

Yu-Chuan FANG

FULL NAME OF FIRST INVENTOR



INVENTOR'S SIGNATURE



DATE

Ren-Jr CHEN

FULL NAME OF SECOND INVENTOR

INVENTOR'S SIGNATURE

DATE

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### METHODS AND APPARATUS FOR TRANSMITTING/RECEIVING DATA IN A COMMUNICATION SYSTEM

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NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional Application No. **61/071,550** filed **May 5, 2008**, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional applications, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

Yu-Chuan FANG

FULL NAME OF FIRST INVENTOR

INVENTOR'S SIGNATURE

DATE

Ren-Jr CHEN

FULL NAME OF SECOND INVENTOR

INVENTOR'S SIGNATURE

DATE

*Ren-Jr Chen*

20090504