

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the assignee's country previously recorded on Reel 021367 Frame 0370. Assignor(s) hereby confirms the assignee's country should be the Republic of Korea, not the Democratic Republic of Korea.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yong-Hoon LEE</td> <td>06/02/2008</td> </tr> <tr> <td>Jin-Gon JOUNG</td> <td>06/02/2008</td> </tr> <tr> <td>Eui-rim JEONG</td> <td>06/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	Yong-Hoon LEE	06/02/2008	Jin-Gon JOUNG	06/02/2008	Eui-rim JEONG	06/02/2008		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Korea Advanced Institute of Science and Technology</td> </tr> <tr> <td>Street Address:</td> <td>373-1 Guseong-dong, Yuseong-gu</td> </tr> <tr> <td>City:</td> <td>Daejeon</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td>Postal Code:</td> <td>305-701</td> </tr> </table>		Name:	Korea Advanced Institute of Science and Technology	Street Address:	373-1 Guseong-dong, Yuseong-gu	City:	Daejeon	State/Country:	REPUBLIC OF KOREA	Postal Code:	305-701
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Street Address:	373-1 Guseong-dong, Yuseong-gu										
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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>12137697</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12137697						
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Application Number:	12137697										
CORRESPONDENCE DATA											
Fax Number:	(612)332-9081										
Phone:	612.336.4611										
Email:	mmiller@merchantgould.com										
<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:	Tong Wu										
Address Line 1:	PO Box 2903										
Address Line 4:	Minneapolis, MINNESOTA 55402-0910										
ATTORNEY DOCKET NUMBER:	15983.0007US01										
NAME OF SUBMITTER:	Tong Wu										

OP \$40.00 12137697

Total Attachments: 5

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TO: BRIAN H. BATZLI COMPANY PO BOX 2910



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



AUGUST 11, 2008

500617454A

PTAS

BRIAN H. BATZLI
PO BOX 2910
MINNEAPOLIS, MN 55402-0910

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 08/11/2008

REEL/FRAME: 021367/0370
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 15983.0007US01

ASSIGNOR:

LEE, YONG-HOON

DOC DATE: 06/02/2008

ASSIGNOR:

JOUNG, JIN-GON

DOC DATE: 06/02/2008

ASSIGNOR:

JEONG, EUI-RIM

DOC DATE: 06/02/2008

ASSIGNEE:

KOREA ADVANCED INSTITUTE OF
SCIENCE AND TECHNOLOGY
373-1 GUSEONG-DONG, YUSEONG-GU
DAEJEON, [DEM REP OF KOREA] 305-701

REPUBLIC OF KOREA

TO: BRIAN H. BATZLI COMPANY PO BOX 2910

021367/0370 PAGE 2

SERIAL NUMBER: 12137697

FILING DATE: 06/12/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: ECHO CANCELLATION AND ECHO CHANNEL ESTIMATION SYSTEM USING MULTIPLE ANTENNAS

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT
REEL: 027770 FRAME: 0956

PATENT ASSIGNMENT

Electronic Version v1.1
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**08/11/2008
 500617454**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yong-Hoon LEE	06/02/2008
Jin-Gon JOUNG	06/02/2008
Eui-Rim JEONG	06/02/2008

RECEIVING PARTY DATA

Name:	Korea Advanced Institute of Science and Technology
Street Address:	373-1 Guseong-dong, Yuseong-gu
City:	Daejeon
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
Postal Code:	305-701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12137697

CORRESPONDENCE DATA

Fax Number: (612)332-9081
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 612.336.4755
 Email: mmiller@merchantgould.com
 Correspondent Name: Brian H. Batzli
 Address Line 1: PO Box 2910
 Address Line 4: Minneapolis, MINNESOTA 55402-0910

ATTORNEY DOCKET NUMBER:	15983.0007US01
NAME OF SUBMITTER:	Brian H. Batzli

Total Attachments: 2
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 source=Assignment#page2.tif

OP \$40.00 12137697

INSTRUCTIONS

INTERNATIONAL ASSIGNMENT TO CORPORATION

WHEREAS,

Inventor(s) Name,
Address, Citizenship

1. LEE, Yong-Hoon residing at Chips 2F, KAIST, Guseong-dong, Yuseong-gu, Daejeon 305-701, Republic of Korea and a citizen of Korea;
2. JOUNG, Jin-Gon residing at Chips(N26) 2F, KAIST, Guseong-dong, Yuseong-gu, Daejeon 305-701, Republic of Korea and a citizen of Korea;
3. JEONG, Eui-Rim residing at Chips(N26) 2F, Div. of Electrical Engineering, KAIST, Guseong-dong, Yuseong-gu, Daejeon 305-701, Republic of Korea and a citizen of Korea;

Check the appropriate box and fill in the requested information:

- select the first check box if the application is a national stage of a PCT application and provide the international application number and filing date before sending the assignment for execution;
- select the second check box if the application will be filed without the executed assignment - once the assignment is executed and the serial number and filing date of the U.S. application are known, provide this information before recordation;
- select the third check box if the application was previously filed and provide the serial number and filing date before sending the assignment for execution; or
- select the fourth check box if the application will be filed with the application.

(herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States entitled Echo Cancellation and Echo Channel Estimation System using Multiple Antennas and which:

- is the national stage application of International Application No. ___ filed on _____;
- will be filed without this executed PATENT ASSIGNMENT. THE UNDERSIGNED hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Merchant & Gould PC, who are associated with customer number 23552, to insert here in parenthesis (U.S. Serial No. 12/1371617, filed 06-17-08) this application's U.S. Serial Number and filing date, when known;
- was filed on _____ and was given U.S. Serial No. _____; or
- is filed concurrently herewith;

Name of Corporation

AND WHEREAS Korea Advanced Institute of Science and Technology (herein called "ASSIGNEE"), a corporation organized under the laws of Korea, and having an office and place of business at 373-1 Guseong-dong, Yuseong-gu Daejeon 305-701, Republic of Korea

State or Country of
Incorporation and Address

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for all countries in and to the invention disclosed in the aforesaid application, and in

and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including as assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each inventor must sign & date

LEE Yong-Hoon June 2, 2008
Signature: LEE, Yong-Hoon Date

Note: No legalization or other witness required

Joung, Jin-Gon June 2, 2008
Signature: JOUNG, Jin-Gon Date

Jeong, Eui-Rim June 2, 2008
Signature: JEONG, Eui-Rim Date