

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mun Geon KYEONG	11/26/2010
Won Cheol LEE	11/26/2010
Woo Yong LEE	11/26/2010
Kapseok CHANG	11/26/2010
Seung Eun HONG	11/26/2010
Hyung Min CHANG	11/26/2010

RECEIVING PARTY DATA

Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
Street Address:	161 Gajeong-dong, Yuseong-gu,
City:	Daejeon
State/Country:	REPUBLIC OF KOREA
Postal Code:	305-700

Name:	SOONGSIL UNIVERSITY RESEARCH CONSORTIUM TECHNOPARK
Street Address:	511 Sangdo-dong, Dongjak-gu,
City:	Seoul
State/Country:	REPUBLIC OF KOREA
Postal Code:	156-743

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12969135

CORRESPONDENCE DATA

Fax Number: (202)434-1501

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Phone: 202-434-1500

Email: vadmana@s-n-h.com

CH \$40.00 12969135

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PATENT
REEL: 025508 FRAME: 0666

Correspondent Name:	STAAS & HALSEY LLP
Address Line 1:	SUITE 700
Address Line 2:	1201 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	2117.1061
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NAME OF SUBMITTER:	J. Randall Beckers
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Total Attachments: 4 source=3609278-Assignment#page1.tif source=3609278-Assignment#page2.tif source=3609278-Assignment#page3.tif source=3609278-Assignment#page4.tif
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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS KYEONG, Mun Geon of Daejeon, Republic of Korea; LEE, Won Cheol of Seoul, Republic of Korea; LEE, Woo Yong of Daejeon, Republic of Korea; CHANG, Kapseok of Daejeon, Republic of Korea; and HONG, Seung Eun of Daejeon, Republic of Korea; CHANG, Hyung Min of Seoul, Republic of Korea hereinafter referred to collectively as the assignor, have invented a certain improvement relating to

SEQUENTIAL TRANSMISSION MULTI-BEAMFORMING METHOD WITH LOW COMPLEXITY USING HADAMARD MATRIX

[V] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on

_____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr. and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

AND WHEREAS Electronics and Telecommunications Research Institute of 161 Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea and Soongsil University Research Consortium technopark of 511 Sangdo-dong, Dongjak-gu, Seoul 156-743, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 26th day of November, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature _____

Name: KYEONG, Mun Geon

RABIN & BERDO, P.C., Washington, D.C.


ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

WITNESSES:

Signature: _____
Name: _____Address _____

ASSIGNOR:

Signature: 
Name: LEE, Won Cheol

WITNESSES:

Signature: _____
Name: _____Address _____

ASSIGNOR:

Signature: _____
Name: LEE, Woo Yong

WITNESSES:

Signature: _____
Name: _____Address _____

ASSIGNOR:

Signature: _____
Name: CHANG, Kapseok

WITNESSES:

Signature: _____
Name: _____Address _____

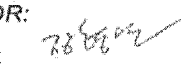
ASSIGNOR:

Signature: _____
Name: HONG, Seung Eun

WITNESSES:

Signature: _____
Name: _____Address _____

ASSIGNOR:

Signature: 
Name: CHANG, Hyung Min

PATENT

REEL: 025508 FRAME: 0669

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS KYEONG, Mun Geon of Daejeon, Republic of Korea; LEE, Won Cheol of Seoul, Republic of Korea; LEE, Woo Yong of Daejeon, Republic of Korea; CHANG, Kapseok of Daejeon, Republic of Korea; and HONG, Seung Eun of Daejeon, Republic of Korea; CHANG, Hyung Min of Seoul, Republic of Korea hereinafter referred to collectively as the assignor, have invented a certain improvement relating to

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[] said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr. and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

AND WHEREAS Electronics and Telecommunications Research Institute of 161 Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea and Soongsil University Research Consortium technopark of 511 Sangdo-dong, Dongjak-gu, Seoul 156-743, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 30th day of November, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

RABIN & BERDO, P.C., Washington, D.C.

ASSIGNOR:

Signature:  _____

Name: KYEONG, Mun Geon

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

WITNESSES:

Signature: _____

Name: _____

Address _____

ASSIGNOR:

Signature: _____

Name: LEE, Won Cheol

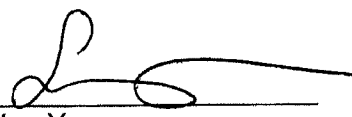
WITNESSES:

Signature: _____

Name: _____

Address _____

ASSIGNOR:

Signature:  _____Name: LEE, Woo Yong


WITNESSES:

Signature: _____

Name: _____

Address _____

ASSIGNOR:

Signature:  _____Name: CHANG, Kapseok

WITNESSES:

Signature: _____

Name: _____

Address _____

ASSIGNOR:

Signature:  _____Name: HONG, Seung Eun

WITNESSES:

Signature: _____

Name: _____

Address _____

ASSIGNOR:

Signature: _____

Name: CHANG, Hyung Min