PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI552920

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the inventor assignment previously recorded under Reel and Frame 16812/438 to correct the omission of inventor Robert W. Heath Jr.'s executed signature page previously recorded on Reel 16812 Frame 438. Assignor(s) hereby confirms the Assignment.
<u> </u>	

CONVEYING PARTY DATA

Name	Execution Date
Robert W. Heath Jr.	11/02/2005
Jihoon Choi	08/30/2005

RECEIVING PARTY DATA

Company Name:	The Board of Regents, The University of Texas System	
Street Address:	207 West 7th Street	
City:	Austin	
State/Country:	TEXAS	
Postal Code:	78701	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11188233

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (425)283-4893

Email: ivrecording@intven.com

Correspondent Name: Intellectual Ventures Management - IP Legal

Address Line 1: 3150 - 139th Ave SE Building 4

Address Line 2: 5th Floor

Address Line 4: Bellevue, WASHINGTON 98005

NAME OF SUBMITTER:	Joann Reynolds
SIGNATURE:	Joann Reynolds
DATE SIGNED:	10/09/2024

Total Attachments: 9

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	source=Corrective Assignment 7676007_11-188233 combined#page9.tiff
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PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIHOON CHOI	08/30/2005
ROBERT W. HEATH JR.	11/02/2005

RECEIVING PARTY DATA

Name:	Board of Regents, The University of Texas System
Street Address:	207 West 7th Street
City:	Austin
State/Country:	TEXAS
Postal Code:	78701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11188233

CORRESPONDENCE DATA

Fax Number: (650)833-2001

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 650-833-2433

Alan.Limbach@dlapiper.com Email:

Correspondent Name: Alan A. Limbach

Address Line 1: 2000 University Avenue

Address Line 2: DLA Piper Rudnick Gray Cary US LLP Address Line 4: East Palo Alto, CALIFORNIA 94303-2248

ATTORNEY DOCKET NUMBER: 356392-991141

NAME OF SUBMITTER: Alan A. Limbach

Total Attachments: 3

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PATENT

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PATENT REEL: 069141 FRAME: 0602)

ASSIGNMENT

WHEREAS, <u>JIHOON CHOI and ROBERT W. HEATH JR.</u> made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled

SYSTEM AND METHOD FOR INTERPOLATION BASED TRANSMIT BEAMFORMING FOR MIMO-OFDM WITH PARTIAL FEEDBACK

	issued as U.S. Patent No.		
$\overline{\mathbf{x}}$	filed as serial no	11/188,233	on <u>July 21, 2005</u>
	filed herewith		

WHEREAS, Board of Regents, The University of Texas System, whose address is 207 West

7th Street, Austin, Texas 78701 and who, together with its successors and assigns is hereinafter called
"Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and
privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, effective as of the date signed, we hereby, without reservation;

- 1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as

 Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

EM\7191932.1 356392-991141 5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREO	F:	
JIHOON	1 CHOI	08-30-2005 Date
		~ ~ ~ ~
STATE OF)	•
COUNTY OF	}	
to be the person whose na executed the same in his/l	OI, personally known or proved me is subscribed to the within instru	, Notary Public, personally to me on the basis of satisfactory evidence ument and acknowledged to me that he/she his/her signature on the instrument the xecuted the instrument.
Witness my hand	and official seal.	•
_	Johons Ch	()
	/ Notary Public	

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ROBERT	W. HEATH, JR.	Date	
STATE OF)		
COUNTY OF)		
cknowledged to me that h	be the person whose name is subsection executed the same in his/he	, Notary Public, p sonally known or proved to me on the scribed to the within instrument and r authorized capacity and that by his half of which the person acted, exec	e basis /her
Witness my hand a	and official seal.		
	Notary Public		
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ASSIGNMENT

WHEREAS, <u>JIHOON CHOI and ROBERT W. HEATH JR.</u> made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled

SYSTEM AND METHOD FOR INTERPOLATION BASED TRANSMIT BEAMFORMING FOR MIMO-OFDM WITH PARTIAL FEEDBACK

	issued as U.S. Pate	nt No.		
X	filed as serial no.	11/188,233	on July 2	<u>21, 2005</u>
	filed herewith			

WHEREAS, Board of Regents, The University of Texas System, whose address is 207 West. 7th Street. Austin, Texas 78701 and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, effective as of the date signed, we hereby, without reservation;

- 1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

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IN WITNESS WHEREOF:	HEATH, JR.	11/4/300 S Date	· —
STATE OF)		
COUNTY OF	Ś		
of satisfactory evidence to be	ATH, JR., the person whose name is s	personally known or proved to me on the baseless of the within instrument and sher authorized capacity and that by his/her a behalf of which the person acted, executed	1515
Witness my hand and	official seal.		
	Notary Public		

-3-

ASSIGNMENT

WHEREAS, JIHOON CHOI and ROBERT W. HEATH JR. made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled

SYSTEM AND METHOD FOR INTERPOLATION BASED TRANSMIT BEAMFORMING FOR MIMO-OFDM WITH PARTIAL FEEDBACK

	issued as U.S. Patent No	
$\overline{\mathbf{x}}$	filed as serial no11/18	38,233 on July 21, 2005
	filed herewith	•

WHEREAS, <u>Board of Regents</u>, <u>The University of Texas System</u>, whose address is <u>207 West</u> <u>7th Street</u>, <u>Austin</u>, <u>Texas 78701</u> and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, effective as of the date signed, we hereby, without reservation;

- 1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREO	OF: Chor	08-30-2005 Date
STATE OF	·	•
COUNTY OF	}	
appeared <u>JIHOON CF</u> to be the person whose r executed the same in his	<u>IOI</u> , personally known or proved t	
Witness my han	d and official seal. Whom Motary Public	1 2-3

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