

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2820559

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RICHARD H. XU	04/17/2014
HWAN JANG TANG	04/17/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IBASIS, INC.
<b>Street Address:</b>	20 SECOND AVENUE
<b>City:</b>	BURLINGTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01803
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14212290
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(978)341-0136
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	978-341-0036
<b>Email:</b>	julie.kertyzak@hbsr.com
<b>Correspondent Name:</b>	TIMOTHY J. MEAGHER
<b>Address Line 1:</b>	530 VIRGINIA RD, P.O. BOX 9133
<b>Address Line 2:</b>	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
<b>Address Line 4:</b>	CONCORD, MASSACHUSETTS 01742-9133
<b>ATTORNEY DOCKET NUMBER:</b>	4402.1015-001
<b>NAME OF SUBMITTER:</b>	MICHELLE LENIHAN
<b>SIGNATURE:</b>	/MICHELLE LENIHAN/
<b>DATE SIGNED:</b>	04/17/2014
<b>Total Attachments: 3</b>	
source=201404171435191301#page1.tif	
source=201404171435191301#page2.tif	
source=201404171435191301#page3.tif	

JointASSIGNMENT

WHEREAS, we, **Richard H. Xu and Hwan Jang Tang**, have invented a certain improvement in **Method And Apparatus For Voice Over LTE** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **14/212,290**, filed **March 14, 2014**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [    ], filed    , which designates the United States of America [and is assigned United States Application No.    ];
- which was patented under United States Patent No. [    ].

WHEREAS, **iBasis, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **20 Second Avenue, Burlington, Massachusetts 01803** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Richard H. Xu  
Richard H. Xu

State/Commonwealth of Massachusetts  
County of Middlesex

On this 17<sup>th</sup> day of April, 2014, before me, the undersigned notary public, personally appeared Richard H. Xu,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

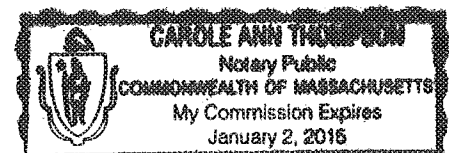
Massachusetts Driver's License # \$59215582 Exp. 7/28/16

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public Carol Ann Thompson  
Carol Ann Thompson (print name)  
My Commission expires 01/02/2015



Inventor's Signature: *Hwan Jang Tang*  
Hwan Jang Tang

State/Commonwealth of Massachusetts  
County of Middlesex

On this 17<sup>th</sup> day of April, 2014, before me, the undersigned notary public, personally appeared Hwan Jang Tang,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

Massachusetts Driver License # \$12592738 Exp 6/10/15

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

Notary Public *Carole Ann Thompson*  
Carole Ann Thompson (print name)  
My Commission expires 01/02/15

