

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Steven Hong</td> <td>05/20/2013</td> </tr> <tr> <td>Sachin Katti</td> <td>05/20/2013</td> </tr> <tr> <td>Jeff Mehlman</td> <td>05/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Steven Hong	05/20/2013	Sachin Katti	05/20/2013	Jeff Mehlman	05/20/2013
Name	Execution Date								
Steven Hong	05/20/2013								
Sachin Katti	05/20/2013								
Jeff Mehlman	05/20/2013								
RECEIVING PARTY DATA									
Name:	The Board of Trustees of the Leland Stanford Junior University								
Street Address:	1705 El Camino Real								
City:	Palo Alto								
State/Country:	CALIFORNIA								
Postal Code:	94306-1106								
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>13762043</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13762043				
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Application Number:	13762043								
CORRESPONDENCE DATA									
Fax Number:	2129833115								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	41243-504001US								
NAME OF SUBMITTER:	Boris A. Matvenko								
Signature:	/Boris A. Matvenko/								
Date:	05/30/2013								

CH \$40.00 13762043

**Total Attachments: 4**

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RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies):**

Steven Hong (05/20/2013), Sachin Katti  
(05/20/2013), and Jeff Mehlman (05/20/2013)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s): in parentheses after inventor name:

- ☒ Assignment ☐ Merger ☐ Change of Name  
☐ Security Agreement ☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: The Board of Trustees of the Leland Stanford Junior University

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

1705 El Camino Real

City: Palo Alto

State: California

Country: United States of America Zip: 94306-1106

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

13/762,043

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Boris A. Matvenko, Esq.  
MINTZ LEVIN COHN FERRIS GLOVSKY  
AND POPEO, P.C.

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**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00

- ☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 50-0311

Authorized User Name Boris A. Matvenko, Esq.

**9. Signature:**

/Boris A. Matvenko/

Signature

May 30, 2013

Date

Boris A. Matvenko, Esq. - 48,165

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

## ASSIGNMENT

We, STEVEN HONG, SACHIIN KATTI, and JEFF MEHLMAN each hereby assign, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to The Board of Trustees of the Leland Stanford Junior University, with an office at 1705 El Camino Real, Palo Alto, CA 94306-1106 and to its successors, assigns and legal representatives, collectively hereinafter referred to as the (ASSIGNEE) (1) our entire right, title and interest throughout the world in the inventions and improvements that are the subject of a patent document entitled,

## SYSTEMS AND METHODS FOR FULL-DUPLEX SIGNAL SHAPING

which is found in

- ☒ U.S. patent application filed on February 7, 2013
- ☒ Under Application No. Serial No. 13/762,043
- ☒ Under Attorney Docket No.: 41243-504001US/S11-430

We authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known.

This assignment includes the foregoing patent application or patent, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

We hereby state and agree that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment.

We further agree for ourselves and our respective heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and legal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto; and we agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature

STEVEN HONG

Date

Witnessed by:

Signature

Print Name

Date

Witnessed by:

Signature

Print Name

Date

Inventor's Signature

SACHIN KATTI

Date

Witnessed by:

Signature

Print Name

Date

Witnessed by:

Signature

Print Name

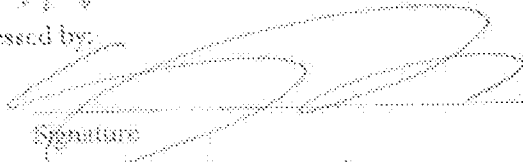
Date

Inventor's Signature

  
JEFF MEHLMAN


5/20/13  
Date

Witnessed by:

  
Signature  
Steven Hing  
Print Name

5/20/13  
Date

Witnessed by:

  
Signature  
SACHIN KATTI  
Print Name

5/20/13  
Date