

## 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>ZHIMIN REN</td> <td>06/25/2013</td> </tr> <tr> <td>HENGCHIN YEH</td> <td>06/25/2013</td> </tr> <tr> <td>MING LIN</td> <td>06/25/2013</td> </tr> </tbody> </table>		Name	Execution Date	ZHIMIN REN	06/25/2013	HENGCHIN YEH	06/25/2013	MING LIN	06/25/2013
Name	Execution Date								
ZHIMIN REN	06/25/2013								
HENGCHIN YEH	06/25/2013								
MING LIN	06/25/2013								
RECEIVING PARTY DATA									
Name:	The University of North Carolina at Chapel Hill								
Street Address:	Campus Box 4105								
Internal Address:	308 Bynum Hall								
City:	Chapel Hill								
State/Country:	NORTH CAROLINA								
Postal Code:	27599								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2013043643</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2013043643				
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PCT Number:	US2013043643								
CORRESPONDENCE DATA									
Fax Number:									
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email:	jjones@jwth.com								
Correspondent Name:	Gregory A. Hunt								
Address Line 1:	3100 Tower Boulevard								
Address Line 2:	Suite 1200, University Tower								
Address Line 4:	Durham, NORTH CAROLINA 27707								
ATTORNEY DOCKET NUMBER:	421/302 PCT								
NAME OF SUBMITTER:	Gregory A. Hunt								
Signature:	/Gregory A. Hunt/								

Date:

07/09/2013

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we, Zhimin Ren of Chapel Hill, North Carolina, Hengchin Yeh of Chapel Hill, North Carolina, and Ming Lin of Chapel Hill, North Carolina hereinafter "Assignors"), have invented certain new and useful improvements in METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR SYNTHESIZING SOUNDS USING ESTIMATED MATERIAL PARAMETERS (hereinafter "Invention") for which a PCT International Application was filed on May 31, 2013 as Serial No. PCT/US2013/043643 (hereinafter "Application"), which claims priority to U.S. Provisional Patent Application Serial No. 61/653,827 filed May 31, 2012.

AND, WHEREAS, The University of North Carolina at Chapel Hill, a non-profit organization located in Chapel Hill, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, their entire right, title and interest in and to the Invention and Application, and in and to any and all United States and foreign patent applications filed on the Invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of the Application in all countries in accordance with the Paris Convention, the Patent Cooperation Treaty, or other agreement or national law under which priority can be claimed, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made.

Assignors hereby request that said Letters Patent be issued in accordance with this Assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess the unencumbered right and authority to make this Assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its

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representatives any facts known to them relating to the Invention, to testify in any interference or legal proceedings involving the Application or Invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the Invention in all countries and to vest in the Assignee complete title to the Invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 25th day of June 2013.

  
\_\_\_\_\_  
Zhimin Ren

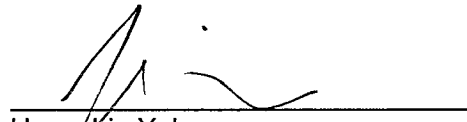
Witnessed by:

Bridgette Cyr 6-25-13  
Name Date

Denna Boqas 6-25-2013  
Name Date

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Executed this 25th day of June 2013.

  
\_\_\_\_\_  
Hengchin Yeh

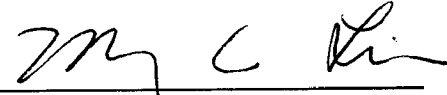
Witnessed by:

Bridgette Cyr 6-25-13  
Name Date

Denna Boqas 6-25-2013  
Name Date

\*\*\*\*\*

Executed this 25<sup>th</sup> day of June 2013.

  
\_\_\_\_\_  
Ming Lin

Witnessed by:

Bridgette Cyr 6-25-13  
Name Date

Danna Boggs 6-25-2013  
Name Date

\*\*\*\*\*