

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3186671

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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<b>Property Type</b>	<b>Number</b>
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<b>DATE SIGNED:</b>	01/16/2015
<b>Total Attachments: 3</b>	
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PATENT

Atty. Docket No.: 421/299 PCT/US

ASSIGNMENT

WHEREAS, we, Ravish Mehra of Chapel Hill, North Carolina and Dinesh Manocha of Chapel Hill, North Carolina (hereinafter "Assignors"), have invented certain new and useful improvements in METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR SIMULATING SOUND PROPAGATION IN LARGE SCENES USING EQUIVALENT SOURCES (hereinafter "Invention") for which application for a U.S. Patent was made on September 22, 2014 as Serial No. 14/387,127 (hereinafter "Application"), and claims priority to International Patent Application No. PCT/US2013/031619 filed March 14, 2013, which claims priority to U.S. Provisional Patent Application Serial No. 61/614,468 filed March 22, 2012.

AND, WHEREAS, The University of North Carolina at Chapel Hill, a non-profit organization located at 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 patent applications filed pursuant to 35 U.S.C. § 111(a) pertaining to said Invention and/or which claim priority to the United States provisional patent application referenced above, and in and to any and all foreign patent applications filed on the Invention, and in and to any and all continuations, continuations-in-part, or divisions of any U.S. or foreign patent application filed on the invention, 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 (hereinafter, "Patents"), 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 foreign 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. It is expressly agreed by both Assignors and Assignee that this Assignment fully conveys and transfers from Assignors to Assignee the right to sue for any and all patent infringement occurring prior to the date of this Assignment.

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 binds their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to them relating to the Invention, to testify and/or assist as requested by the Assignee in any interference or legal proceedings involving the Application, Patents, or Invention, including cooperating in any enforcement proceedings involving the Application, Patents, 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 26<sup>th</sup> day of December 2014.

Ravish  
Ravish Mehra

Witnessed by:

[Signature] 12/16/14  
Name Date

[Signature] 12/16/2014  
Name Date

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Executed this 16 day of December 2014.

[Signature]  
Dinesh Manocha

Witnessed by:

[Signature] 12/16/14  
Name Date

[Signature] 12/16/2014  
Name Date

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