501796992 01/25/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Anish Chandak	12/18/2011
Lakulish Shailesh Antani	01/03/2012
Micah Taylor	01/03/2012
Dinesh Manocha	01/03/2012

RECEIVING PARTY DATA

Name:	The University of North Carolina at Chapel Hill	
Street Address:	308 Bynum Hall	
Internal Address:	Campus Box 4105	
City:	Chapel Hill	
State/Country:	NORTH CAROLINA	
Postal Code:	27599-4105	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13373901

CORRESPONDENCE DATA

Fax Number: (919)419-0383 **Phone**: 9194938000

Email: sanderson@jwth.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

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:	421/276/2	
NAME OF SUBMITTER:	Gregory A. Hunt	PATENT

501796992 REEL: 027588 FRAME: 0122

OP \$40.00 13373901

Total Attachments: 4

source=421_276_2_Assignment#page1.tif

source=421_276_2_Assignment#page2.tif

source=421_276_2_Assignment#page3.tif

source=421_276_2_Assignment#page4.tif

PATENT REEL: 027588 FRAME: 0123

ASSIGNMENT

WHEREAS, we, Anish Chandak of Carrboro, North Carolina; Lakulish Shailesh Antani of Chapel Hill, North Carolina; Micah Taylor of Pittsboro, 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 FAST GEOMETRIC SOUND PROPAGATION USING VISIBILITY COMPUTATIONS (hereinafter "Invention") for which application for a U.S. Patent was made on December 5, 2011 as Serial No. 13/373,901 (hereinafter "Application"). Assignors hereby authorize Jenkins, Wilson, Taylor & Hunt, P.A. to insert the filing date and Serial No. above.

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 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

PATENT REEL: 027588 FRAME: 0124

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 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	18th day of December 2011.	
	Anish-Chandak	
Witnessed by: Rowish Mawa	12/18/2011	
Name	Date	
Pomu lata, Name	12/18/2011 Date	

Executed this3 *&	_day of January 2011.2
	Lakulish Shailesh Antani
Witnessed by:	
Witnessed by: Ama Cula Name Rowin Muna	1/3/2012
Name	Date
Rowin Wlord	1/3/2012
Name	Date

Executed this	day of January 2012.
	Micah Taylor
Witnessed by:	· .
fairs menora	1/3/2012
Name	Date
Admin him	/ 3/20 2 Date

-3 of 4-

Executed this 3rd day of January 2011/2

| Dinesh Manocha | Dinesh Manocha

Pawith 1/3 / 12.
Name Date

-4 of 4-

PATENT REEL: 027588 FRAME: 0127