

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4973615

<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. FEINS	12/15/2011
W. ANDREW GRUBBS	12/14/2011
ALEXANDER MCLAIN GRUBBS	12/02/2011
MATTHEW M. DEDMON	12/11/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
<b>Street Address:</b>	308 BYNUM HALL
<b>City:</b>	CHAPEL HILL
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27599-4105
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15148317
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	150-7-CON
<b>NAME OF SUBMITTER:</b>	NATHAN P. LETTS
<b>SIGNATURE:</b>	/Nathan P. Letts/
<b>DATE SIGNED:</b>	05/23/2018
<b>Total Attachments: 6</b>	
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### ASSIGNMENT OF RIGHTS

WHEREAS, Richard H. Feins, an individual residing in Chapel Hill, NC, United States of America; W. Andrew Grubbs, an individual residing in Chapel Hill, NC, United States of America; Alexander McLain Grubbs, an individual residing in Chapel Hill, NC, United States of America; and Matthew M. Dedmon, an individual residing in Cambridge, MA, United States of America; (collectively "ASSIGNORS") are inventors of the one or more new and useful improvements described in an International Patent Application Serial Number PCT/US2011/058279, Docket No. UNC10002WO, filed on or about October 28, 2011, with the title:

#### MODULAR STAGED REALITY SIMULATOR

WHEREAS, The University of North Carolina at Chapel Hill, having an address of 308 Bynum Hall, Campus Box 4105, Chapel Hill, NC 27599-4105 (hereinafter, together with any successors, assigns, legal representatives of assignee or to any number of iterations of successors and assigns, collectively called ASSIGNEE) is desirous of transferring and memorializing the transfer of the entire right, title and interest therein for ASSIGNEE;

NOW, THEREFORE, ASSIGNORS, through each ASSIGNOR's employment or other relationship with ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE the full, exclusive, non-revocable, and worldwide rights, if any, to the said improvements, and to all of each ASSIGNOR's copyrights in the above-identified application(s), including:

all rights currently owned or acquired in the future by each ASSIGNOR in any patent or other legal document claiming one or more aspects of the improvements described in the above-identified application(s) whether or not the improvement is explicitly claimed in the above-identified application(s);

all rights currently owned or acquired in the future by each ASSIGNOR in any patent or other legal document that claims any of the above-identified application(s) as a priority document, and any patent which results directly or indirectly through any number of links to the any of the above-identified patent application(s), including links such as: one or more provisional applications which include the subject matter in the application(s) identified above, one or more non-provisional applications which include subject matter in the application(s) identified above including applications which do not claim priority to the application(s) identified above, one or more continuation or divisional applications, one or more continuation-in-part applications, one or more reissue processes, one or more re-examination proceedings, or any other like processes to any of the above;

and the right to claim priority to one or more of the application(s) identified above for all member countries under any international agreements concerning intellectual property, including but not limited to rights such as utility patent, extensions, design patent, utility model registration, inventor's certificates, defensive publications, and the like; and the results of any

process granting legal rights within the United States or anywhere in the world.

Each ASSIGNOR hereby authorizes and requests the Commissioner for Patents of the United States Patent and Trademark Office, and any officials of foreign or other patent systems whose duty it is to issue patents or related rights on applications as referenced above to issue any patents or document conveying rights arising from any of the above-identified patent application(s) to ASSIGNEE in accordance with the terms of this assignment for ASSIGNEE's sole use and behalf, to the full end of the term for which any patent may be granted, as fully and entirely as the same would have been held by each ASSIGNOR had this assignment and sale not been made.

Each ASSIGNOR hereby grants to ASSIGNEE the right to file applications in any or all countries or regional systems on any of the conveyed intellectual property in the name of each ASSIGNOR, in the name of the ASSIGNEE, or otherwise, as ASSIGNEE may deem advisable.

Each ASSIGNOR agrees that upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for full protection and title in and to the improvements hereby transferred including any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

Each ASSIGNOR hereby covenants and agrees to: communicate to ASSIGNEE any facts known to that ASSIGNOR respecting said improvements; provide relevant prior art material as required by law; testify in any legal proceeding; sign all lawful papers; execute all divisional, continuation, continuation-in-part, substitute and reissue applications; make all rightful oaths or declarations; and generally do everything possible to obtain, maintain, and enforce proper legal protection for said improvements in all countries, regions, or systems.

Each ASSIGNOR hereby further covenants and agrees that each ASSIGNOR has the full right to convey the entire interest herein assigned, and each ASSIGNOR has not and will not execute any agreement in conflict herewith.

Each ASSIGNOR agrees that if any provision of this Assignment shall for any reason be held to be invalid or unenforceable, such decision shall not affect, impair or invalidate the remainder of this Assignment but shall be confined in its operation to the provision of this Assignment directly involved in the controversy in which the decision was rendered. The invalid or unenforceable provision shall be reformed so that each ASSIGNOR shall have the obligation to perform reasonably in the alternative to give the ASSIGNEE the benefit of its bargain. In the event the invalid or unenforceable provision cannot be reformed, the other provisions or applications of this Assignment shall be given full effect, and the invalid or unenforceable provision shall be deemed struck.

12/15/2011  
Date

Richard H. Feins  
Richard H. Feins

State of N. Carolina )  
County of Orange ) ss:

On this 15 day of December, 2011, before the undersigned, a Notary Public for the State aforesaid, personally appeared Richard H. Feins, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Carleta L. Long  
, Notary Public

My Commission Expires on 4-8-2014

EG Ref. No.: UNC10002WO  
UNC Ref. No.: 11-0026  
Application No.: PCT/US2011/058279  
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14 DEC 2011  
Date

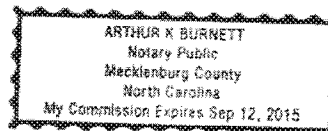
W Andrew Grubbs  
W. Andrew Grubbs

State of NC )  
County of Orange ) ss:

On this 14 day of December, 2011, before the undersigned, a Notary Public for the State  
aforesaid, personally appeared W. Andrew Grubbs, known to me or proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed  
the same.

Arthur K Burnett  
Notary Public

My Commission Expires on September 12, 2015.



EG Ref. No.: UNC10002WO  
UNC Ref. No.: 11-0026  
Application No.: PCT/US2011/058279  
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December 2, 2011  
Date

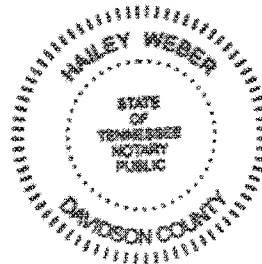
Alexander McLain Grubbs  
Alexander McLain Grubbs

State of Tennessee )  
County of Davidson ) ss:

On this 2nd day of December, 2011, before the undersigned, a Notary Public for the State aforesaid, personally appeared Alexander McLain Grubbs, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Hailey Weber  
Notary Public

My Commission Expires on 3/4/2013





12/13/2011  
Date

*Matthew M. Debus*  
Matthew M. Debus

*James M. Warner*  
James M. Warner

On this 13<sup>th</sup> day of December, 2011, before the undersigned, a Primary Patent for the above described, personally appeared Matthew M. Debus, known to me to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

*James M. Warner*

My Commission Expires on August 14, 2015

