PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
UNIVERSITY OF VIRGINIA	10/16/2014

RECEIVING PARTY DATA

Name:	UNIVERSITY OF VIRGINIA PATENT FOUNDATION
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State/Country:	VIRGINIA
Postal Code:	22903

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14898077

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ATTORNEY DOCKET NUMBER:	1036.229US1	
NAME OF SUBMITTER:	ROBIN L. MONSEES	
SIGNATURE:	/ Robin L. Monsees /	
DATE SIGNED:	03/02/2018	

Total Attachments: 3

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PATENT 504801368 REEL: 045087 FRAME: 0820

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 1036.229US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: University of Virginia Patent Foundation University of Virginia Street Address: 722 Preston Ave., Suite 107 Additional name(s) of conveying party(ies) attached? City: Charlottesville State: VA Zip: 22903 []Yes [X]No Country: United States of America 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes IXINo [X] Assignment | Merger [] Security Agreement[] Change of Name [] Other Execution Date: October 16, 2014 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 14/898,077 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Timothy J. Christman ∏Enclosed [Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. February 28, 2018 Timothy J. Christman/Reg. No. 59,481 Name of Person Signing Signature Date Total number of pages including cover sheet: 3 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450

Alexandria, VA 22313-1450

PATENT REEL: 045087 FRAME: 0821

ASSIGNMENT

WHEREAS, the University of Virginia, Varsity Hall, 136 Hospital Drive, P. O. Box 400301, Charlottesville, Virginia 22904-4301 (the "Assignor") possesses the right, title and interest for and in an invention entitled

"APPARATUS AND TECHNIQUES FOR FOURIER TRANSFORM MILLIMETER-WAVE SPECTROSCOPY"

described in U.S. Provisional Patent Application Serial No. 61/835,179 filed June 14, 2013; International Patent Application Serial No. PCT/US2014/042094 filed June 12, 2014, and any subsequent patent applications claiming priority thereto; and

WHEREAS, the University of Virginia Patent Foundation, d/b/a
University of Virginia Licensing & Ventures Group, a non-profit organization having a place of business at 250 West Main Street, Suite 300, Charlottesville, Virginia 22902 (the "Assignee") is desirous of acquiring the entire right, title and interest in and to the aforesaid invention, including any tangible materials embodied in or encompassed by the invention and any trade secrets pertaining to the invention, and any improvements thereon, (the "Invention") and in and to said applications for Letters Patent thereon in the United States, its territories and possessions ("United States") and all foreign countries, including rights to claim priority, to any provisional applications, and in and to any Letters Patent of the United States or any foreign country which may be granted therefor, including any and all reissues, divisions, continuations, continuations-in-part, renewals, substitutes, or extensions thereof (the "Rights");

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and conveyed, and does hereby sell, assign, transfer and convey to Assignee, its successors and assigns, the entire right, title and interest in and to the aforesaid Invention and Rights, except that Assignee hereby grants back to the Assignor a royalty free non-transferable license to make and use the Invention under the Rights for educational and research purposes, only. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignor if this sale and assignment had not been made;

AND Assignor hereby authorizes and requests the appropriate governmental officials to issue any and all such United States or foreign Letters Patent under said invention, or resulting from any of said applications thereof, to the Assignee, as the assignee of the entire right, title and interest in and to the same;

PATENT REEL: 045087 FRAME: 0822 AND Assignor hereby represents, warrants and covenants that it has the full right to convey the entire interest herein assigned, that it has not executed and will not execute any instrument or assignment in conflict herewith, and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

AND Assignor further covenants and agrees that Assignors will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, power of attorney, assignments, and other documents, and do all lawful acts and things, which, in the opinion of counsel for said Assignee, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns the entire right, title and interest in and to said Invention and Rights hereby sold, assigned, transferred and conveyed, and that Assignor will sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension of said application for Letters Patent or any resulting Letters Patent;

AND Assignor further covenants and agrees that Assignor will at any time upon request communicate to the Assignee, its successors, assigns or other legal representatives any facts relating to the aforesaid invention known to it, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

IN WITNESS WHEREOF, said Assignor has hereunto set its hand and seal.

Representative for Assignor:	Cal Chuda
	David J. Hudson
Representative's Title:	Associate Vice President for Research and Graduate Studies, University of Virginia
Place of Execution:	Charlottesville, Virginia
CITY OF CHARLOTTESVILLE)	
COMMONWEALTH OF VIRGINIA)	
for the Commonwealth of Virginia, personable the Associate Vice President for Rese executed the foregoing instrument in morganization's free act and deed.	(1) (1) before me, a Notary Public at large in and onally appeared David J. Hudson, to me known and known to arch and Graduate Studies of the University of Virginia, who y presence, and acknowledged the same to be his and said
" Jackleeu	A Neces

NOTARY
PUBLIC
REG # 100647
MY COMMISSION
EXPIRES
COMMISSION
EXPIRES

Kathleen A. Moore, Notary Public Notary Registration No.: 100647

My commission expires on July 31, 2016

PATENT REEL: 045087 FRAME: 0823

RECORDED: 03/02/2018