

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RUBAB AMIN	10/02/2019
VOLKER J. SORGER	10/02/2019
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16545733
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SIGNATURE:	/Peter S. Weissman/
DATE SIGNED:	10/17/2019
Total Attachments: 4	
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A S S I G N M E N T

THIS ASSIGNMENT, made on the date set forth below by Rubab AMIN, residing at 3141 Bayswater Ct., Fairfax, VA 22031; and Volker J. SORGER, residing at 1100 W. Taylor Run PKWY, Alexandria, VA 22302, (hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in TRANSPARENT CONDUCTING OXIDE (TCO) BASED INTEGRATED MODULATORS set forth in an Application for Letters Patent of the United States, filed on August 20, 2019 as U.S. Patent Application No. 16/545,733; and

WHEREAS, The George Washington University, a Congressionally Chartered Not-For-Profit Corporation, having its principal place of business at 1918 F Street, NW, Washington, DC 20052 (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the said Assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto the Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all non-provisionals, divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the

International Convention for the Protection of Industrial Property, and all rights of priority resulting from the filing of the application(s) and/or rights to claim priority from the application(s), the same to be held and enjoyed by the said Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, the said Assignors hereby covenants and agrees to and with the said Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the said Assignors is the sole and lawful owner of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that the said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

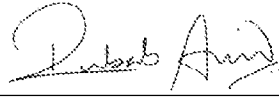
AND for the same consideration, the said Assignors hereby covenants and agrees to and with the said Assignee, its successors, legal representatives and assigns, that the said Assignors will, whenever counsel of the said Assignee or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including post-grant proceedings (including interference proceedings, post-grant review, Inter Partes Review, Reexamination, derivation, Supplemental Examination and Reissue), is lawful and desirable, that any non-provisional, division, continuation or continuation-in-part of any application for Letters Patent, post-grant proceeding, or reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers

and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, validity and defense of Letters Patent for said inventions in any country, without charge to the said Assignors, its successors, legal representatives and assigns, but at the cost and expense of the said Assignee, its successors, legal representatives and assigns.

AND said Assignors hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to the said Assignee, as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said assignee, its successors, legal representatives and assigns.

The undersigned hereby grants the firm of Blank Rome LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 11 September 2019



Rubab AMIN

STATE OF Virginia
COUNTY OF Fairfax

On this day of , 2019, personally before me came Rubab AMIN,
known to me, and known to me to be the person described in and who signed the annexed
Assignment, and being duly sworn, acknowledged that they executed the same.

NOTARY PUBLIC

My Commission Expires:

Date: 9-11-2019



Volker J. SORGER

STATE OF
COUNTY OF

On this day of , 2019, personally before me came Volker J.
SORGER, known to me, and known to me to be the person described in and who signed the
annexed Assignment, and being duly sworn, acknowledged that they executed the same.

NOTARY PUBLIC

My Commission Expires: