

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WILLIAM A. MACKIE	07/24/2018
GERALD G. MAGERA	07/24/2018
JOSHUA M. LOVELL	07/24/2018
RECEIVING PARTY DATA	
Name:	APPLIED PHYSICS TECHNOLOGIES, INC.
Street Address:	1600 NE MILLER STREET
City:	MCMINNVILLE
State/Country:	OREGON
Postal Code:	97128
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	62263457
Application Number:	15359436
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ATTORNEY DOCKET NUMBER:	64001/7:2
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SIGNATURE:	/Paul S. Angello/
DATE SIGNED:	07/24/2018
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, William A. Mackie, of McMinnville, County of Yamhill, State of Oregon, Gerald G. Magera, of Hillsboro, County of Washington, State of Oregon, and Joshua M. Lovell, of Carlton, County of Yamhill, State of Oregon (each hereinafter "ASSIGNOR"), have made inventions described in U.S. Patent Application No. 62/263,457, filed December 4, 2015, and U.S. Patent Application No. 15/359,436, filed November 22, 2016, both of which for THERMIONIC-ENHANCED FIELD EMISSION ELECTRON SOURCE COMPOSED OF TRANSITION METAL CARBIDE MATERIAL WITH SHARP EMITTER END-FORM, said Patent Application No. 15/359,436 claiming priority from said Patent Application No. 62/263,457; and

WHEREAS, ASSIGNOR believes himself to be the original inventor or an original joint inventor of the subject matter claimed in said patent applications; and

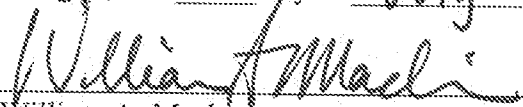
WHEREAS, Applied Physics Technologies, Inc., an Oregon corporation, having a place of business at 1600 NE Miller Street, McMinnville, Oregon 97128 ("ASSIGNEE"), is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, hereby assigns and transfers to ASSIGNEE the full and exclusive right, title, and interest in and to said inventions, said patent applications, and any and all patent rights and letters patent for said inventions in the United States of America and elsewhere throughout the world, including provisional rights, foreign patent priority rights, and the right to apply for patents in ASSIGNOR's name or in the name of ASSIGNEE and further including all divisional and continuation applications deriving priority from said patent applications or any foreign patent applications, and all reissues and extensions of patent rights and letters patent for said inventions, all to be held and enjoyed by ASSIGNEE for its own use and benefit, and by its successors and assigns for their own use and benefit, for the full duration of the terms for which patent rights and letters patent may be granted in this or any foreign country, and covenants that ASSIGNOR has full right so to do, and agrees that ASSIGNOR will communicate to ASSIGNEE and its successors and assigns, any facts known to ASSIGNOR respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all lawful divisional, continuation, and reissue applications, make all rightful declarations or oaths, and do everything lawfully possible to aid ASSIGNEE and its successors and assigns, to obtain and

enforce proper patent protection for said inventions in the United States of America and elsewhere throughout the world.

This Assignment is effective as of the respective filing date(s) set forth above.

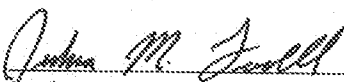
Executed at McMinnville State of Oregon, this 24 day of July, 2018.


William A. Mackie

Executed at McMinnville State of Oregon, this 24 day of July, 2018.


Gerald G. Magera

Executed at McMinnville, State of Oregon, this 24 day of July, 2018.


Joshua M. Lovell

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Attorney Docket No. 64001/7:2