

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Robert J. Nemanich	06/09/2008
Franz A.M. Koeck	06/09/2008
RECEIVING PARTY DATA	
Name:	North Carolina State University
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City:	Raleigh
State/Country:	NORTH CAROLINA
Postal Code:	27695
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12029602
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NAME OF SUBMITTER:	Laura M. Kelley

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Total Attachments: 4  
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**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Robert J. Nemanich**, a citizen of the United States of America, residing at 9 E. 13<sup>th</sup> Street, Tempe, Arizona; and **Franz A.M. Koeck**, a citizen of Austria, residing at 804 W. 5<sup>th</sup> Street, Apartment D, Tempe, AZ 85281, Raleigh NC;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in "**THERMIONIC ELECTRON EMITTERS/COLLECTORS HAVE A DOPED DIAMOND LAYER WITH VARIABLE DOPING CONCENTRATIONS,**" for which U.S. Application Serial No. **12/029,602** was filed on **February 12, 2008**;

WHEREAS, North Carolina State University, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina, having a principal office at Campus Box 8210, City of Raleigh, County of Wake, State of North Carolina, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, 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 or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.


We further covenant and agree to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind my heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 9 day  
of June, 2008.

 (SEAL)  
**Robert J. Nemanich**

STATE OF Arizona )  
COUNTY OF Maricopa ) ss:

Before me personally appeared the person described in and who executed the  
foregoing instrument, and s/he acknowledged to me that s/he executed the same for the  
purposes therein stated, this 9<sup>th</sup> day of June, 2008.

SEAL  Flora D. Ortiz  
Notary Public

My Commission Expires: 7/25/2010

