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1. Name of conveying party(ies): Triveni Srinivasan-Rao, Ilan Ben-Zvi, Jorg Kewisch, Xiangyu Chang. Additional name(s) of conveying party(ies) attached? [ ] Yes [ ] No

2. Name and address of receiving party(ies) Name: Brookhaven Science Associates Internal Address: Bldg. 460 Street Address: 40 Brookhaven Avenue City: Upton State: NY Zip: 11973-5000 Additional name(s) & address(es) attached? [ ] Yes [ ] No

3. Nature of conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 7/29/04; 8/2/04 and 8/10/04

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) S.N. 10/917,309 filed 8/13/04 B. Patent No.(s) Additional numbers attached? [ ] Yes [ ] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Margaret C. Bogosian Internal Address: Street Address: Brookhaven National Laboratory P.O. Box 5000, Bldg. 475D City: Upton State: NY Zip: 11973-5000

6. Total number of applications and patents involved: [ ] 7. Total fee (37 CFR 3.41).....\$ 40.00 [ ] Enclosed [x] Authorized to be charged to deposit account

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9. Signature. Margaret C. Bogosian Name of Person Signing [Signature] Signature 11/18/04 Date

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PATENT REEL: 016001 FRAME: 0278

WHEREAS, we Triveni Srinivasan-Rao, Ilan Ben-Zvi, Jorg Kewisch and Xiangyu Chang, citizens of the United States, United States, Germany, and China, respectively, residing in Shoreham, County of Suffolk, State of New York; in Setauket, County of Suffolk, State of New York; in Wading River, County of Suffolk, State of New York; and in Middle Island, County of Suffolk, State of New York, have invented certain new and useful improvements in "SECONDARY EMISSION ELECTRON GUN USING EXTERNAL PRIMARIES", for which we filed an application for United States Letters Patent identified as BSA 04-21; and executed by us on 7/29/2004; 8/2/2004; and 8/10/2004; and;

WHEREAS, the Brookhaven Science Associates desires to acquire the entire right, title, and interest in and to the said invention and in and to any Letters Patent wherever they may be issued thereon;

WHEREAS, the Brookhaven Science Associates has elected to take title to said invention pursuant to P.L. 98-620 and has informed the U.S. Department of Energy of that election and the U.S. Department of Energy has not exercised any exceptions thereto under either 401.3(a)(2) or (3) of P.L. 98-620, but retains the right to do so;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar to us in hand paid by said Brookhaven Science Associates and for other good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Brookhaven Science Associates the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, the same to be held and enjoyed by the said Brookhaven Science Associates to the full end of the term or terms for which Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.

We agree to make, execute, and deliver unto the Brookhaven Science Associates any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms, and contents as may be required by the Brookhaven Science Associates, or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved, and we agree that we will aid the Brookhaven Science Associates in every way in protecting the invention as may be requested by the Brookhaven Science Associates or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Brookhaven Science Associates

WITNESS: Maria Paula

Triveni Srinivasan-Rao  
Triveni Srinivasan-Rao (SEAL)  
Date 8/2/04

WITNESS: Maria Paula

Ilan Ben-Zvi  
Ilan Ben-Zvi (SEAL)  
Date 8/2/04

WITNESS: Maria Paula

Jorg Kewisch  
Jorg Kewisch (SEAL)  
Date 8/10/04

WITNESS: Maria Paula

Xiangyun Chang  
Xiangyun Chang (SEAL)  
Date 29/07/04

Approved and consented to this 10<sup>th</sup> day of November 2004.

ATTEST:

Margaret C. Bogosian  
By MARGARET C. BOGOSIAN  
Its PATENT COUNSEL