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FORM COVER SHEET					
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To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.				
Name of conveying party(ies):	2. Name and address of receiving party(ies)				
Natsuo Tatsumi (09/21/2005), Akihiko Namba (09/22/2005), Yoshiki Nishibayashi (09/21/2005), and Takahiro Imai (09/21/2005)	Name: Sumitomo Electric Industries, Ltd. Internal Address:				
Additional name(s) of conveying party(ies) attached?	Street Address:				
3. Nature of conveyance/Execution Date(s):	5-33, Kitahama 4-chome				
Execution Date(s): in parentheses after inventor name	Chuo-ku, Osaka-shi, Osaka 541-0041				
X Assignment Merger Change of Name	JAPAN				
Security Agreement Joint Research Agreement					
Government Interest Assignment					
Executive Order 9424, Confirmatory License					
	Additional name(s) & address(es)				
Other	attached: Additional name(s) & address(es) Yes X No				
4. Application or patent number(s):	his document is being filed together with a new application.				
A. Patent Application No.(s) National Phase of PCT/JP2004/014671 designating the United States	B. Patent No.(s)				
Additional numbers attached?	Yes X No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:				
Name: Joseph R. Robinson DARBY & DARBY P.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00				
Internal Address: Atty. Dkt.: 20239/0202827-US0	Authorized to be charged by credit card				
Street Address: P.O. Box 5257	Authorized to be charged to deposit account				
7	x Enclosed				
	None required (government interest not affecting title)				
City: New York	8. Payment Information				
State: NY Zip: 10150-5257	a. Credit Card Last 4 Numbers				
Phone Number: (212) 527-7783	Expiration Date				
Fax Number: (212) 527-7701	b. Deposit Account Number				
Email Address: jrobinson@darbylaw.com	Authorized User Name				
9. Signature: MUNOLL MARIE C	November 1, 2005				
Signature	44085 Date				
Chris T. Mizumoto - 42,899 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				

Express Mail Label No.	Dated:

PATENT REEL: 017915 FRAME: 0718 **Attorney Docket No.:** 20239/0202827-US0

ASSIGNMENT

- I, Natsuo TATSUMI, a citizen of Japan, residing at c/o Sumitomo Electric Industries, Ltd.; 1-1, Koyakita 1-chome; Itami-shi; Hyogo; 664-0016; JAPAN; and
- I, Akihiko NAMBA, a citizen of Japan, residing at c/o Sumitomo Electric Industries, Ltd.; 1-1, Koyakita 1-chome; Itami-shi; Hyogo; 664-0016; JAPAN; and
- I, Yoshiki NISHIBAYASHI, a citizen of Japan, residing at c/o Sumitomo Electric Industries, Ltd.; 1-1, Koyakita 1-chome; Itami-shi; Hyogo; 664-0016; JAPAN; and
- I, Takahiro IMAI, a citizen of Japan, residing at c/o Sumitomo Electric Industries, Ltd.; 1-1, Koyakita 1-chome; Itami-shi; Hyogo; 664-0016; JAPAN;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

Sumitomo Electric Industries, Ltd.

a Corporation organized under the laws of Japan, located at 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0041, JAPAN (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, in and for the United States of America only in and to my Invention entitled:

PROCESS FOR PRODUCING DIAMOND ELECTRON EMISSION ELEMENT AND ELECTRON EMISSION ELEMENT

invented by me and described in the specification bearing the above Attorney Docket No. and title executed by me concurrently herewith; and Patent Application No. PCT/JP2004/014671, filed on September 29, 2004, in the PCT and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or

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PATENT REEL: 017915 FRAME: 0719 other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not be made;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commission of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: Sep. 21, 2005.

Natsuo Tatsumi Natsuo TATSUMI, Inventor Dated: Sep. 22. 2005

Dated: Sep. 21. 2005

Dated: Sep. 21.2005

RECORDED: 11/02/2005

Akihiko Namba
Akihiko NAMBA, Inventor

Yoshiki Nishibayashi
Yoshiki NISHIBAYASHI, Inventor

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