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Additional name(s) of conveying party(ies) attached 3 □ Yes ■ No	Address: 1) 629 Oshiba, Mobara-shi, Chiba-ken, JAPAN						
3. Nature of Conveyance:  ■ Assignment	2) 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo, JAPAN						
Execution Date: March 2, 1998	Additional name(s) and address(es) attached? □Yes ■No						
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) 09/037,035	B. Patent No.(s)						
Additional numbers atta	ached? □Yes ■No						
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total applications and patents involved: 1						
22850	7. Total fee (37 CFR 3.41): \$40.00  ■ Enclosed  □ Authorized to be charged to deposit account						
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	WHEREAS, I (WE) Shigeo ITOH, Takahiro NIIYAMA, Masaharu TOMITA,
	Yoshitaka KAGAWA, Akira INOUE
VSERT NAMES  ND RESIDENCE  DDRESSES OF  HE INVENTORS:	c/o Futaba Denshi Kogyo K.K., 629 Oshiba, Mobara-shi, Chiba-ken, Japan
	Junji ITOH and Seigo KANEMARU
	c/o Electrical Laboratory Agency of Industrial Science and Technology,
	4-1, Umezono 1-chome, Tsukuba-shi, Ibaraki-ken, Japan
ISERT TITLE F INVENTION:	have invented certain new and useful improvements in: FIELD EMISSION CATHODE
ISERT DATE IN- ENTORS SIGNED ECLARATION:	for which an application for Letters Patent was executed on March 2, 1998
	(Application No. 09/037,035, filed March 9, 1998), and
ISERT NAME ND ADDRESS OF OMPANY OR	WHEREAS, (1) Futaba Denshi Kogyo K.K. and (2) Director General
THER ASSIGNEE:	Agency of Industrial Science and Technology (hereinafter referred to as "ASSIGNEE") having a place of business at: (1) 629 Oshiba, Mobara-shi, Chiba-ken, Japan (2) 3-1, Kasumigaseki 1-chome,
	Chiyoda-ku, Tokyo, Japan
	is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

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any and all foreign countries;

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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:_	March 2,	1998	(Signature of Inventor) Skigger Itoh
	March 2,		Takahiro hiijamer  (Signature of Inventor)
Date:_	March 2,	1998	(Signature of Inventor)
Date:_	March 2,	1998	Yoshitaka Kagawa.
Date:_	March 2,	1998	Akira Inoue (Signature of Inventor)
Date:_			(Signature of Inventor)
Date:_			(Signature of Inventor)
Date:_			(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
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I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

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Date:	March	2,	1998	Jungi Hos
Date:	March	2,	1998	(Signature of Inventor)  (Signature of Inventor)
Date:				(Signature of Inventor)
Date:				(Signature of Inventor)
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