Form PfO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) Attorney Docket No. 10986.52 To the Honorable Commissioner of I copy thereof. 1. Name of conveying party(ies):	06-20-2003 102478732	U.S DEPARTMENT OF COMMERCE Patent and Trademark Office I the attached original documents or and address of receiving party(ies)
Nobuo ISHII 6-17-53 JUN 17 3. Nature of Conveyance:	F	TOKYO ELECTRON LIMITED 3-6, Akasaka 5-chome, Minato-ku, Tokyo, Japan
X Assignment Execution Date: May 1, 2003		
4. Application number(s) or patent number filed together w		execution date of the application is:
A. Patent Application No.(s) 10/343,201		No(s).
 Name and address of party to whom correspondence concerning documen mailed: CROWELL & MORING, L.L.P. Intellectual Property Group P.O. Box 14300 Washington, D.C. 20044-4300 	1 Total I X Enconnect No. 05 Aut. 8. Deposit	Fee (37 CFR 3.41): \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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9. Statement and Signature. To the best of my knowledge and belief, the forthe original occument.	regoing information is true a	nd correct and any attached copy is a true copy of

Herbert I. Cantor

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> PATENT REEL: 014181 FRAME: 0502

Attorney Docket No.: _

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conflict herewith.

(date)

RECORDED: 06/17/2003

Worldwide Rights-Joint

ASSIGNMENT OF U.S. AND FOREIGN PATENT RIGHTS

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

TOKYO ELECTRON LIMITED of 3-6, Akasaka 5-chome, Minato-ku, Tokyo, Japan

(hereinafter ASSIGNEE) all right, title and interest in and to his/her invention relating to:

Serial No. 10/343,201 , filed __January 29, 2003

executed concurrently herewith,

and enjoyed by the undersigned had this Assignment not been made.

executed on

Radial Antenna and Plasma Processing Apparatus Using the Same

in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in all countries through the world and under the Patent Cooperation Treaty and/or the European Patent Convention, as set forth in his/her United States Patent Application

This Assignment includes all rights in and to said United States Patent Application including any and all divisions or continuations thereof, in and to any and all Letters Patent of the United States which may issue on any such application, or for said invention, including any and all reissues or extensions thereof, and in and to all corresponding foreign applications to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held

Each of the undersigned warrants and covenants that he/she has the full and unencumbered right to sell and assign the interest herein sold and assigned and that he/she has not executed and will not execute any document or instrument in

Each of the undersigned further covenants and agrees that he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other

(signature of 2nd inventor)

lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to any said application including divisions and continuations thereof, and to any and all Letters Patent, which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent for said invention in the United States and in any other country in which a patent application for said invention is filed.
Each of the undersigned hereby grants the firm of CROWELL & MORING, L.L.P., or any partner thereof, the power to insert in this Assignment any further identification, which may be appropriate to comply with the rules of the U.S. Patent and Trademark Office, for recordation of this Assignment.
INVENTOR: Nobuo Ishii Citizenship: Japan Post Office Address/ c/o TOKYO ELECTRON LIMITED, 1-8, Fusou-cho, Amagasaki-shi, Hyogo 660-0891, Japan Residence: Hyogo, Japan May 1, 2003 (date) (signature of 1st inventor)
INVENTOR: Citizenship: Post Office Address/ Residence:

PATENT REEL: 014181 FRAME: 0503