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ttached original documents or copy thereof.

1.	Name	of	conveying	party(ies):
••	_ 1001110	•		Pett 1 (100).

Toshinari Ando, Hiroshi Tsuji, Takaaki Isono, Yukio Yasukawa, Kizen Sakaki, Masayuki Konno, Takeshi Kato, and Kazuhiko Hayashi

Additional name(s) of conveying party(ies) attached? □ Yes ☑ No

2.	Name	and	address	of	receiving	party(ies):	

Name: (1) Japan Atomic Energy Research Institute; (2) Fuji Electric Co., Ltd.; (3) Sumitomo Electric Industries, Ltd.

	Internal Address:		
3. Nature of Conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: July 10, 1998	Street Address: (1) 2-2-2, Uchisaiwai-cho; (2) 1-1, Tanabeshinden, Kawasaki-ku; (3) 5-33, Kitahama 4-chome, Chuo-ku City: (1) Chiyoda-ku, Tokyo 100; (2) Kawasaki-shi, Kanagawa 210; (3) Osaka-shi, Osaka 541 State: (1) Japan; (2) Japan; (3) Japan Zip: Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached?		
4. Application number(s) or patent number(s): If this document is being filed together with a new application. A. Patent Application No.(s): 08/998,434 Additional number(s) attached? □ Yes □ No			
 Name and address of party to whom correspondence concerning this document should be mailed: Name: <u>Jeffrey J. Sopko</u> 	6. Total number of applications and patents involved: 1		
Street Address: 1200 Leader Building 77/22/1998 JSHABAZZ 00000169 08998434 1 FC:581 40.00 gp	7. Total Fee (37 C.F.R. §3.41)\$40.00 ☑ Enclosed ☐ Authorized to be charged to Deposit Account		
City: Cleveland State: OH Zip: 44114-1401 DO NOT USE	8. Deposit Account No. 16-0820, Order No. 30580 (Attach duplicate copy of this page if paying by deposit account) THIS SPACE		

9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jeffrey J. Sopko Name of Person Signing

July 16, 1998

Date

Total number of pages including attachments, and document: 4

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

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and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below in the appropriate spaces to the left of the signatures of the undersigned, which application is further identified as Pearne, Gordon, McCoy & Granger Docket No. 30580

- 1. JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
 2. FUJI ELECTRIC CO., LTD.
 3. SUMITOMO ELECTRIC INDUSTRIES, , a corporation of all of Japan LTD.
 - 2-2-2, Uchisaiwa-cho, Chiyoda-ku, Tokyo 100, JAPAN 1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210, JAPAN 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541, JAPAN
 - 3.

having a place of business at ___ hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne, Gordon, McCoy & Granger the power to insert on this assignment any further identification 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.

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PGM&G PT605

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

	Date I Signed Declaration		Today's Date	
Witness	July 10	, 1998	July 10, 1998	Name: Toshinari ANDO
Witness	Address:	Fusion re	esearch Establishr	esearch Institute, Naka ment, 801-1, Mukoyama, raki 311-01 Japan
	Date I Signed Declaration		Today's Date	
Witness	July 10	, 1998	July 10, 1998	Name: Hiroshi TSUJJ
Witness	Address:	Fusion re	esearch-Establish	esearch Institute, Naka ment, 801-1, Mukoyama, raki 311-01 Japan
	Date 1 Signed Declaration	÷	Today's Date	-
Witness	July 10	1998	July 10, 1998	Jakaaki Isono Name: Takaaki Isono
Witness	Address:	Fusion re	esearch Establish	esearch Institute, Naka ment, 801-1, Mukoyama, raki 311-01 Japan
·	Date 1 Signed Declaration		Todsy's Date	11 hall Am
Witness	July 10), 1998	July 10, 1998	Name: Yukio YASUKAWA
Witness	Address:			d., 1-1, Tanabeshinden, , Kanagawa 210, JAPAN

Page 2 of $^{\frac{3}{2}}$

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

	Date I Signed Declaration	l	Today's Date		
Witness	July 1	0, 1998	July 10,	1998	Kizen Sahahi Name: Kizen SAKAKI
Witness	Address	: c/o Fuji Kawasaki-	Electric C ku, Kawasa	o,. Ltd. ki-shi,	, 1-1, Tanabeshinden, Kanagawa 210, JAPAN
	Date I Signed Declaration		Today's Date		
Witness	July 1	0, 1998	July 10,	1998	Masayuki Konno Name: Masayuki KONNO
Witness	Address:	c/o Fuji Kawasaki-	Electric C ku, Kawasa	o,. Ltd. ki-shi,	, 1-1, Tanabeshinden, Kanagawa 210, JAPAN
	Date I Signed Declaration		Today's Date		
Witness	July_1	0, 1998	July 10,	1998	Takeshi Kato Name: Takeshi KATO
Witness	Address:	c/o Osaka Ltd., 1-3 Osaka, Ja	, Shimaya	Sumitomo 1-chome,	Electric Industries, Konohana-ku, Osaka-shi,
	Date 1 Signed Declaration		Today's Date		
Witness	July 1	0, 1998	July 10,	1998	Kozuliko Hayashi Name: Kazuhiko HAYASHI
Witness	Address:	c/o Osaka Ltd., 1-3 Osaka, Jaj	, Shimaya :	Sumitomo 1-chome,	Electric Industries, Konohana-ku, Osaka-shi,
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PATENT REEL: 9330 FRAME: 0797