ar Box	nd Tra (Assig	of the U.S. Patent RECORDATION FORM Ademark Office PATENTS (guments ton, D.C. 20231								
			Attorney Docket No. 113287							
To the Director of the U.S. Patent and Trademark Office: Please record the attached document.										
Total number of pages including cover sheet, attachments, and document: 2										
1.	A.	Name of conveying party: Satoshi TAKANO	2. A. Name and address of receiving party: HITACHI KOKUSAI ELECTRIC INC. 14-20, 3-CHOME, HIGASHI-NAKANO NAKANO-KU, TOKYO 164-8511, JAPAN							
	B.	Additional name(s) of conveying party(ies) attached? Yes No								
3.	A.	Nature of conveyance:	B. Additional name(s) & address(es) attached? □ Yes ☑ No							
	\boxtimes	Assignment								
		Security Agreement								
		Other								
	В.	Execution Date: July 31, 2002								
4.	A.	If this document is being filed together with a new appl	ication, the execution date of the application is:							
	В.	Patent Application No. 10/197,398	C. Patent No.(s)							
		Additional numbers atta	iched? Yes No							
5.		ne and address of party to whom correspondence cerning document should be mailed:	6. Total number of applications and patents involvec: 1							
	Na	me: James A. Oliff	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.							
	Ad	dress: OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, VA 22320 Phone Number: 703-836-6400 Fax Number: 703-836-2787	Credit any overpayment or charge any underpayment to deposit account number 15-0461.							
9.	To t	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 briginal document.								
	Jame	es A. Oilffikegistrahon No. 27,075	Date: August 28, 2002							
	Joel	S. Armstrong Registration No. 36,430	PATENT							
	7	00016653	REEL: 013031 FRAME: 0							

REEL: 013031 FRAME: 0525

RECORDED: 08/28/2002

ASSIGNMI	\mathbf{E}	N	Т
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		(1)	Satoshi	TAKAN	<u>o</u>	(5	5)		
(1-8)	Insert	(2)		_		(6	ó)		
	Name(s) of Inventor(s)	(3)					7)		
		(4)							
		to eac	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to						
(9)	Insert Name of Assignee	(9)	нтас	HI KOKUS	SALELECTR	IC INC.			
(10)	Insert Address of Assignee	(10)							
		(herei the en inven divisi reissu	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as						
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	SUBST	FRATE PRO	OCESSING A	APPARATUS	S AND METHOL) FOR MANUFA	ACTUEING
			SEMIC	CONDUCTO	OR DEVICE				
		(Atto	rney Dock	et No.	113287)
			for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or						
(12)	Insert Date of	(12)	on	Turlay S	31, 2002				
	Signing of Application	(12)	on	July .) <u>1, 2002</u>				
(13)	Alternative	(13)	U.S. app	plication Se	erial Number		10/197,398		
3	Identification for filed applications	filed		July 18,			-		
any apy the Ass claims reexam resulting entire if assignation	2) Each undersigned agree plication or continuation or dignee in every way possible is 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree of a valid Unit 5) Each undersigned authors from said application(s) to interest herein assigned, and the ment is binding on him and him 6) Each undersigned herebication that may be necessary attent of this document.	s to exectivision the control of the	cute all pay hereof, or ing eviden cute all pay evention fo orm all aff es patent to d requests Assignce, as not execute the firm of	pers necess; any patent and going pers and do or Protection firmative action the Assign the Commit as Assigned cutted, and va., assigns are of OLIFF &	or reissue aping forward with the comments and in of Industriates which mannee. It is significant to the control of Properties of the entity will not executed legal reproblem.	plication base ith such inter perform any al Property or y be necessar attents to issue te interest, an ite, any agree sentatives. PLC the power	ed thereon, for the reference. act which may be a similar agreemently to obtain, maintenance any and all Letted covenants that the ements in conflicing to insert on this contract of the results of the remains of the remains in conflicing the remains of the rem	e invention, and e necessary in co nts. stain or confirm b ers Patents of the he has full right t herewith, and a s assignment any	onnection with on reissue or c United States to convey the grees that this
	In witness whereof, execu	ted by t	he unders	signed on t	he date(s) oj	posite the u	ndersigned nam	.e(s).	
Date	July 31, 200	72		Inventor	Signature	Sat	oshi TA	KANO	(SEAL)
Date				Inventor	Signature				(SEAL)
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neither	This assignment should pre then it should be signed bef						the U.S.A. (b) a U	J.S. Consul if ou	tside the U.S.A. If
Date					Witness _				
Date					Witness				

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