Director of the U.S. Patent RECORDA and Trademark Office Box Assignments Washington, D.C. 20231	TION FORM COVER SHEET PATENTS ONLY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Attorney Docket No. 113273
To the Director of the U.S. Patent and Trademark Of	fice: Please record the attached document.
Total number of pages including cover sheet, attachn	nents, and document: 2
A. Name of conveying party: Kouji TOMETSUKA	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 ☐ Yes ▷	
3. A. Nature of conveyance:	B. Additional name(s) & address(es) attached? ☐ Yes ☑ No
⊠ Assignment □ Merger	
☐ Security Agreement ☐ Change	of Name
Other	
B. Execution Date: August 21, 2002	
4. A. If this document is being filed together w	ith a new application, the execution date of the application is:
B. Patent Application No. <u>10/196,204</u>	C. Patent No.(s)
Additiona	numbers attached?
Name and address of party to whom correspond concerning document should be mailed:	ence 6. Total number of applications and patents involved: 1
Name: <u>James A. Oliff</u>	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.
Address: 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.
the original document. My Rards	egoing information is true and correct and any attached copy is a true copy of Date: September 24, 2002
James A. Oliff Registration No. 27,075 Thomas J. Pardini Registration No. 30,411	

PATENT **REEL: 013122 FRAME: 0241**

RECORDED: 09/24/2002

ASSIGNMENT	IGNME	NT	
------------	-------	----	--

		(1)	Kouji	TOMETSUKA		_ (5)		
(1-8)	Insert	(2)				_ (6)		
	Name(s) of Inventor(s)	(3)				_ (7)		
		(4)				(8)		
			of the					uable consideration paid assign, transfer and set
(9)	Insert Name of Assignee	(9)	шта	CHI KOKUSAI EL	ECTRIC INC			
(10)	Insert Address of Assignee	7 7						
	Assignee	(herein the ent invent divisio	(10) 14-20, 3-chome, Higashi-Nakano, Nakano-ku, Tokyo 164-8511, Japan (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	(11)	SUBS	TRATE PROCESS	SING APPARA	ATUS AND	METHOD FOR MA	ANUFACTURING
	Identification such as Title, Case		SEMI	CONDUCTOR DE	VICE			
	Number, or Foreign Application Number	(Attor	(Attorney Docket No. 113273					
				undersigned has (h erewith or	ave) executed	an applicati	on for patent in the	United States of America
(12)	Insert Date of Signing of	(12)	on		Aug	ust 21,	2002	
	Application	(12)						
(13)	Alternative	(13)	U.S. a	pplication Serial N	umber	10/196	,204	a
	Identification for filed applications	filed		3	uly 17, 20	002		
the Ass claims reexam resulting entire it assignored	 Each undersigned agree olication or continuation or dignee in every way possible Each undersigned agree or provisions of the Internati Each undersigned agree ination a grant of a valid Un Each undersigned authors from said application(s) to interest herein assigned, and ment is binding on him and h Each undersigned hereication that may be necessary tion of this document. 	livision the in obtaining to execute on al Converse to perfect the States of the said of t	ereof, or ng evide all portention of the second and	rany patent or reise ence and going forva pers and documen for Protection of In ffirmative acts whi to the Assignee. In the Commissione of as Assignee of the ecuted, and will no es, assigns and lega of OLIFF & BERRI	sue application vard with such that and perform dustrial Proper ch may be necessary of Patents to be entire interest execute, any I representative DGE, PLC the	a based there interference any act what ty or similal essary to ob- issue any ac- st, and cover agreements es.	eon, for the invention ich may be necessar r agreements. tain, maintain or co and all Letters Patent nants that he has fur in conflict herewith cert on this assignments	on, and to cooperate with ry in connection with onfirm by reissue or is of the United States Il right to convey the i, and agrees that this ent any further
	In witness whereof, execu	ited by th	e under	_	· · •			
Date	August 21	2000	<u>} </u>	Inventor Signat	ture <i><u>Kou</u></i>	jr]	ometsuk	<u>(SEAL)</u>
Date				Inventor Signat	0	'	·	(SEAL)
Date				Inventor Signat	ture			(SEAL)
Date				Inventor Signat	ture			(SEAL)
Date				Inventor Signat	ture			(SEAL)
Date				Inventor Signat	ture			(SEAL)
Date				Inventor Signat	ture	**		(SEAL)
Date				Inventor Signat	ture			(SEAL)
neither	This assignment should pro then it should be signed bet					thin the U.S	.A. (b) a U.S. Cous	ul if outside the U.S.A. If
Date	,			Witn	ess			
Date				Witn	ess			

PATENT REEL: 013122 FRAME: 0242