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FORM PTO-1595 77-29 RECOF 07-26	- 1999 T U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		
To the Honorable Commissioner nts and 10110	riginal documents or copy thereof.		
Name of conveying parties: Hiroyuki TSUJIKAWA	2. Name and address of receiving party(ies):		
Hidenori SHIBATA	Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		
Kiyohito MUKAI	Internal Address:		
Additional name(s) of conveying party(ies) attached? Yes No	34.8		
3. Nature of conveyance:	Street Address: 1006, Oaza Kadoma, Kadoma Ka		
X Assignment			
☐ Security Agreement ☐ Change of Name			
Other Execution Date: June 25, 1999	Additional name(s) & address(es) attached? Yes X No		
4. Application number(s) or patent number(s): New Patent Application			
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If this document is being filed together with a new application, t A. Patent Application No.(s)	B. Patent No.(s)		
A. Talent Application (vo.(s)	09/348314		
	0113131		
Additional numbers attac	hed? Yes X No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1		
Name: STEVENS, DAVIS, MILLER & MOSHER, L.L.P.	7. Total fee (37 CFR 3.41)\$40.00 X Enclosed (Check No. 11860) X Any deficiencies may be charged to deposit account Authorized to be charged to deposit account		
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James E. Ledbetter Name of Person Signing Signature	July 7, 1999 Date		
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OMB No. 0651-0011 (exp. 4/94)	Total number of pages including cover sheet, attachments, and document: 2		
(16 TO		
	07/20/1999 POTENT		
	S 8 PATENT		

USA ASSIGNMENT OF PATENT APPLICATION

	(1)	,	rovuki TSUJIK/	AWA			
	(2)						
		_K	ohito MUKAI				
	(4)		,,				
	(5)						
	consider	atio	onsideration of the n paid to each of th assign, transfer an	ne undersigned, the	\$1.00) and other good a undersigned agree(s) to	and valuable assign, and	
	(6)	Ma	tsushita Elec	tric Industria	1 Co., Ltd.		
	(ба)	of	1006, Oaza Ka	doma, Kadoma-s	hi, Osaka 571 Jap	an	
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	(hereina States, it	fter o	designated as the A ritories, dependen	Assignee) the entire to cies and possessions	ights, title and interest f , and for the country of	or the United	
	(8)			in the invention.	and all applications for	patent and any	
	Letters F	ater	nt which may be gr	anted therefor, knov	vn as		
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		PAT	TERN EXTRACTI	ON PROCESS	(Case No)	
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	(10)	on _			or has already filed		
	(11)	U.S.	. appln. Serial No.		, filed on		
	(12)	The	undersigned ackno	owledges an obligati	on of assignment of this	s invention to said	
	assignee	at t	he time the inventi	on was made.			
continuing or divi	sional ap e Assigne	plica e ma	ations thereof and all av deem necessary	lso to execute separa or expedient.	in connection with the ap te assignments in connec	tion with such	
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execute any agre	ement in	con	flict herewith.				
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D . T	1090	C:-	matura of Invantor	m Hirovaki	Tsulikawa	(Seal)	
Date Jun 25	1999	يرنۍ Sia	mature of Inventor	(2) Hidenori	Tsujikawa Shibata Mukai	(Seal)	
Date Jun 25	1999	Sig	nature of Inventor	(3) Kiyonito	Mukai	(Seal)	
Date		Sig	nature of Inventor	(4)		(Seal) (Seal)	
Date		Sig	mature of inventor	(3)		(Seal)	
This ass	ignment	shou	uld preferably be si	gned before: (a) a N	lotary Public if within th	ie U.S.A., or (b) a	
U.S. Counsel if c	outside th	ne U	.S.A. If neither, th	en it should be signe	ed before at least two wi	tnesses who also	
sign here:		7		//	2//		
Date Tune 25	- [999	/ Sic	anature of Witness	Jako 4	Murch	(Seal)	
Date In a 24	1999	Sic	mature of Witness	Akiko Nak	a : ma	(Seal)	

PATENT REEL: 010111 FRAME: 0407

Date Jone >