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Assi Dire P.O	il Stop: gament Recordation Services ector of the U.S. Patent and Trademark Office J. Box 1450 xandria, VA 22313-1450	RECORDATION FORM PATENTS (MENT OF COMMERCE ent and Trademark Office
Ale	xanuria, v.A. 22515-1450		Atto	orney Docket No.	<u>155160</u>
	ise record the attached document.	eet, attachments, and docume	ent: <u>3</u>		
1.	A. Name of conveying parties: [1] Minoru SATOH [2] Takehiro YAMASHI [3] Atsushi NAGAI [4] Yasuo ADACHI B. Additional name(s) of conveying		[1] TDK 1-13-1, TOKYC [2] NOF 3-1-36 N NISHI-I	address of receiving CORPORATION ASHION BASHION BASHIO	ON , CHUO-KU, AN IMITED NMACHI,
3.	A. Nature of conveyance:			I, JAPAN I name(s) & addres □Y	ss(es) attached? Yes ⊠ No
4.		696,862 Additional numbers attace CTRONIC COMPONI			DUCING SAME
5.	Name and address of party to whom concerning document should be mail	correspondence	6. Total number of	of applications and	patents involved: 1 count No. 15-0461 the he amount of \$40.00.
	Address: OLIFF & BERRIDGI P.O. Box 3208: Alexandria, VA 223 Phone Number: 703-4 Fax Number: 703-8	50 20-4850 336-6400	Credit any over deposit account	rpayment or charge t number 15-0461.	e any underpayment to
9.	Statement and signature. To the best of my knowledge and bei original document. James A. Oliff, Registration No. 27 Jomy J. Methipara, Registration No.	MANA		nd any attached co November 8, 2012	
	v 1/				

PATENT REEL: 029300 FRAME: 0559

ASSIGNMENT (Two Assignees)

			(,			
	Insert	(1)	Minoru SATOH			Yasuo ADACHI	
(1-8)	Name(s)	(2)	Takehiro YAMAS	SHITA			-
	of Inventor(s)	(3) -	Atsushi NAGAI		(6)		
		each o				l other good and valuable of d hereby does assign, trans	
(9A)	Insert Name of First Assignce	(9A) TDK CORPORATION					
(10A)	Insert Address of First Assignee	(10A) 1-13-1, Nihonbashi, Chuo-ku, Tokyo 1038272, JAPAN					
(9B)	Insert Name of Second Assignee	(9B)	NORITAKE CO	., LIMITED			
(10B)	Insert Address of Second Assignee	(10B)	3-1-36 Noritakeshinmachi, Nishi-ku, Nagoya-shi, Aichi 4518501, JAPAN				
		entire : in all a interna	right, title and interest for applications for patent inc	r the United States of cluding any and all p stitute and reissue a	of Americ provisions pplication	al, non-provisional, divisi n(s), and all Letters Paten	§100, in the invention, and
(11)	Insert Identification, such as Title, Case	(11) ELECTRONIC COMPONENT AND METHOD FOR PRODUCTION SAME					
	Number or Foreign	Attorn	au Doolrot No. 1553	<i>(</i> 0			
	Application Number	for whi			olication f	or patent in the United Sta	tes of America on
(12)	Insert Date of	even da	ate herewith or				
(12)	Signing of	(12)	October 2	6. 2012			
	Application	on	- OCCODET Z	0, 2012			
	Apprecion	(12)	VIOLA Structure Control				
(13)	Alternative	(13) Number	U.S. Application Serial	13/69	6,86	2	
	Identification for						
	filed applications	filed _	November 8,	2012			
patents a application possible provision a grant of Patents of entire intagreement	1) Each undersigned agrees to one for the invention, and any pass the Assignees may deem necest to one or continuation or division the notatining evidence and going 3) Each undersigned agrees to of the International Convention of the United States patent to one of the International Convention of the United States resulting from the United States resulting from the International Convenients, and covenants that he has the in conflict herewith, and agree of Each undersigned hereby accessary or desirable in order to the International Convenients.	atent(s) issuessary. Describe a server of content of the content	ling thereon, and also to ex- ll papers necessary in control y patent or reissue application interference. Il papers and documents action of Industrial Property all affirmative acts which neces. Lests the Commissioner of ication or any divisional, to convey the entire interest is assignment is binding rm of OLIFF & BERRIDGE the the rules of the United to	nection with any interaction based thereon, and perform any act way or similar agreementable be necessary to continuing or reissue therein assigned, and on him and his height puc the power to its states Patent and Trapposite the undersite proposite the undersite at the power to its states patent and Trapposite the undersite at the power to its proposite the undersite at the power to its proposite the undersite patent and the proposite the undersite at the under	nments in reference vand to coo which may note. Obtain, may note application of that the last supplication of the last supplication to the last supplication of the last su	which may be declared consperate with the Assignees to be necessary in connection aintain or confirm by reissumark Office to issue any a const to the said Assignees, has not executed, and will a ssors, assigns and legal rhis assignment any further office for recordation of the me(s).	olications and in every way on with claims or the or reexamination and all Letters as Assignees of the not execute, any representatives.
Date	October 26,	2012	Inventor Signatu	re <u>Minor</u>	m A	non_	(SEAL)
Date _		***************************************	Inventor Signatu	ire			(SEAL)
Date .			Inventor Signatu	re			(SEAL)
Date .	44.		Inventor Signatu	•			
Date _			Inventor Signat				
Date _		1.11	Inventor Signat			I.S. Cancul if outside the	
	This assignment should prefera ould be signed before at least two states of the control of the c	o witnesse	s who also sign here:			Which PATEN	
Date	October 26, Oct. 26, 201	· · ·	. AA111	ness Akih	iko F	The ichi	
Date	<u> </u>		/ *![I	1-11	1 -	PATEN	

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ASSIGNMENT (Two Assignees)

			(1102001	,neco)			
	Insert	(1)	Minoru SATOH	(4) Yasuo ADACHI		
(1-8)	Name(s)	(2)	Takehiro YAMASH		5)		
	of Inventor(s)	(3)	Atsushi NAGAI	(5)		
		each of	In consideration of the sur f the undersigned, each unders	n of one dollar (\$1.00) signed agrees to assign	and other good and valuable cons , and hereby does assign, transfer	ideration paid to and set over to	
(9A)	Insert Name of First Assignce	(9A)	TDK CORPORATI	ON			
(10A)	Insert Address of First Assignee	(10A)	1-13-1, Nihonbashi, Chuo-ku, Tokyo 1038272, JAPAN				
(9B)	Insert Name of Second Assignee	(9B)	NORITAKE CO., L	IMITED			
(10B)	Insert Address of Second Assignce	(10B)	3-1-36 Noritakeshin JAPAN	machi, Nishi-kı	, Nagoya-shi, Aichi 4518	3501,	
		entire r in all a interna	right, title and interest for the pplications for patent including	United States of Aming any and all provisite and reissue applic	neirs, successors, assigns and lega erica as defined in 35 U.S.C. §10 ional, non-provisional, divisional ation(s), and all Letters Patent, ex ention known as	0, in the invention, a	
(11)	Insert Identification, such as Title, Case	(11)	ELECTRONIC CO SAME	MPONENT AI	ND METHOD FOR PRO	DUCING	
	Number or Foreign	Attorne	by Docket No. 155160				
	Application Number		100100	executed an applicati	on for patent in the United States o	f America on	
			te herewith or				
(12)	Insert Date of	(12)	0 - 1 - 1 10	0010			
	Signing of	on	October 18,	5015			
	Application						
(13)	Alternative	(13) Number	U.S. Application Serial	13/696,	862		
	Identification for						
	filed applications	filed	November 8, 20	12			
patents a application application provision a grant of Patents of entire intragreemer may be n	s the Assignees may deem necess 2) Each undersigned agrees to on or continuation or division the in obtaining evidence and going 3) Each undersigned agrees to is of the International Convention 4) Each undersigned agrees to f a valid United States patent to t 5) Each undersigned authorize f the United States resulting from erest, and covenants that he has t its in conflict herewith, and agree 6) Each undersigned hereby gi	sary. execute all creef, or any forward with a for Protect perform all the Assigners and requent said application in the total performation of the first the first comply with a second of the comply with a second of the comply with a second of the creek that this comply with a second of the comply with a second of the creek of the complex of the creek of the complex of the creek	papers necessary in connecting patent or reissue application the such interference. papers and documents and put ion of Industrial Property or all affirmative acts which may be seem to be cation or any divisional, conticonvey the entire interest here is assignment is binding on him of OLIFF & BERRIDGE, PL in the rules of the United State.	on with any interferent based thereon, and to erform any act which is similar agreements, be necessary to obtain, U.S. Patent and Tranuing or reissue applion assigned, and that had not a long to the power to insert of a Patent and Trademan	s in connection with such applicate which may be declared concern cooperate with the Assignees in everal may be necessary in connection with maintain or confirm by reissue or demark Office to issue any and a sations to the said Assignees, as As he has not executed, and will not excessors, assigns and legal represent this assignment any further ident k Office for recordation of this domanne(s).	ing this very way th claims or reexamination II Letters ssignees of the secute, any sentatives. tification that	
Date	:: arva wwy wawabili k	Jande	Inventor Signature		.,	(SEAL)	
Date Date	Oct 18, 28	7/2	Inventor Signature	Takehis	o Yamashita	(SEAL)	
Date _	Oct 18 . 21)/ >_	Inventor Signature	Atsush	ni Nagai	(SEAL)	
Date	Oct /f , 20	12	Inventor Signature	Yasuo	Adachi	(SEAL)	
Pate _			Inventor Signature	,	1	(SEAL)	
Date _			Inventor Signature			(SEAL)	
hen it sho	This assignment should preferab ould be signed before at least two	ly be signed witnesses	d before: (a) a Notary Public i who also sign here:	f within the U.S.A. (b)	a U.S. Consul if outside the U.S.	A. If neither,	
Date	Oct. 18,2	012	Witness	Truyas	oshi Sar.		
Date	Oct. 18, 2	012	Witness	Kenji	mabuchi		
			-		PATENT		

RECORDED: 11/08/2012

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