04/02/2007 01 FC:8021

Mail Stop: **Assignment Recordation Services** Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

RECORDATION FORM COVER SHEET 04-04-2007

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

	10339	09.	76	.ttorney Docket No. 131910		
	Please record the attached orig	ginal d	ocum	ent or copy thereof.		
1.	A. Name of conveying party(ies):	2.	A.	Name and address of receiving party(ies):		
	(1) Kazutaka SUZUKI (2) Shigeki SATO			TDK CORPORATION 1-13-1, NIHONBASHI, CHUO-KU TOKYO, 103-8272, JAPAN		
	B. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No					
3.	A. Nature of conveyance:		В.	Additional name(s) & address(es) attached? ☐ Yes ☐ No		
	☐ Assignment ☐ Merger]				
	☐ Security Agreement ☐ Change of Name ☐ Other			11/663981		
	B. Execution Date: (1) March 12, 2007 (2) March 14, 2007					
4.	4.					
	A. Patent Application No.(s)		B.	Patent No.(s)		
-	PAGH 00000003 11663981 Additional numbers attained to the control of the control	N OI	NIC	CONDUCTIVE PARTICLE, CONDUCTIVE		
	concerning document should be mailed:					
	Name: James A. Oliff	7.	Α.	Total fee (37 CFR 3.41)\$ 40.00		
			В.	Enclosed (Check No. 191090)		
	Address: OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, VA 22320	8.		dit any overpayment or charge any underpayment to osit account number 15-0461.		
9.	Statement and signature. To the best of my knowledge and belief, the foregoing inform the original document.	ation	is tru	e and correct and any attached copy is a true copy of		
	James A. Oliff Registration No. 27,075			Date: March 28, 2007		
	Scott M. Schulte Registration No. 44,325 Total number of pages in	ncludi	ng co	ver sheet, attachments, and document: 2		

PATENT REEL: 019124 FRAME: 0355

(1-8) Insert (2) Shigeki SATO (6) (7) (4) (8) In consideration of the sum of one dollar (\$1.00) and other good and valual each of the undersigned, each undersigned agrees to assign, and hereby does assign, transcator of the sundersigned agrees to assign, and hereby does assign, transcator of the sundersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, and hereby does assign, transcator of the undersigned agrees to assign, transcator o	63981 ble consideration paid to
(1-8) Insert Name(a) of Inventor(s) (3) (4) (4) (5) In consideration of the sum of one dollar (\$1.00) and other good and valual cach of the undersigned, each undersigned agrees to assign, and hereby does assign, tran (9) Insert Name of Assignee (9) TDK Corporation (10) Insert Address of Assignee (10) 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and leg craire right, title and interest for the United States of America as defined in 35 U.S.C. §1 in all applications for patent including any and all provisional, non-provisional, division international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as (11) Insert Identification such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United State herewith or	ble consideration paid to
(4) (8) In consideration of the sum of one dollar (\$1.00) and other good and valual cach of the undersigned, each undersigned agrees to assign, and hereby does assign, transcription (10) Insert Name of Assignee (9) TDK Corporation (10) 1-13-1, Nihonbashi, Chwo-ku, Tokyo, 103-8272, Japan (bereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and leg entire right, title and interest for the United States of America as defined in 35 U.S.C. §1 in all applications for patent including any and all provisional, numprovisional, division international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as (11) Insert Identification Such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United States for the United States of America as defined in 35 U.S.C. §1 in all application for patent in the United States for the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for patent in the United States of America as defined in 35 U.S.C. §1 in all applications for pa	ble consideration paid to
[4] In consideration of the sum of one dollar (\$1.00) and other good and valuate cach of the undersigned, each undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign, transcript of the undersigned agrees to assign, and hereby does assign and legenties of the undersigned agree of America as defined in 35 U.S.C. §1 in al	ble consideration paid to
(9) Insert Name of Assignee (9) TDK Corporation (10) Insert Address of Assignee (10) Insert Address of Assignee (10) Insert Address of Assignee (10) 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan (hereinafter designated as the Assignee) and Assignse's heirs, successors, assigns and leg entire right, title and interest for the United States of America as defined in 35 U.S.C. §1 in all applications for patent including any and all provisional, non-provisional, divisional, international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as (11) Insert Identification such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United State herewith or	ble consideration paid to
(10) Insert Address of Assignee (10) 1-13-1, Nihonbachi, Chuo-ku, Tokyo, 103-8272, Japan (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and leg craire right, title and interest for the United States of America as defined in 35 U.S.C. §1 in all applications for patent including any and all provisional, non-provisional, divisions international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United States herewith or	afer and set over to
(10) 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan (hereinafter designated as the Assignee) and Assignse's heirs, successors, assigns and leg entire right, title and interest for the United States of America as defined in 35 U.S.C. § 1 in all applications for patent including any and all provisional, non-provisional, division international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as (11) Insert Identification Such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United States herewith or	
craire right, title and interest for the United States of America as defined in 35 U.S.C. § 1 in all applications for patent including any and all provisional, non-provisional, divisions international, confirmation, substitute and reissue application(s), and all Letters Patent, or reexamination certificates that may be granted on the invention known as (11) Insert Identification such as Title, Case Number, or Foreign Application Number (Atterney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United St. date herewith or	
Identification such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United St. date herewith or	00, in the invention, and al, continuation,
Such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United St. date herewith or	CLE, CONDUCTIV
Application Number (Attorney Docket No. 131910 for which the undersigned has (have) executed an application for patent in the United St date herewith or (12) Insert Date of	NIC DEVICE
date herewith or (12) Insert Date of)
	ates of America on even
OF 1 B //O	
Signing of (12)	
Application	
(13) Alternative (13) U.S. application Serial Number	
Identification for filed March 28, 2007	
2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to coopers every way possible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in communications of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reagant of a valid United States patent to the Assignee. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any state United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he hentire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees binding on him and his heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of OLLEF & BERRIDGE, PLC the power to insert on this assignment any furnay be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent and Trademark Office for recordation of the United States Patent a	ate with the Assignee in section with claims or section with claims or securination and all Letters Patents of as full right to convey the that this assignment is arther identification that
In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).	
Date 2007. 3. 12 Inventor Signature Suzuki Kazutaki	(SEAL)
Date 2007. 3.14 Inventor Signature Shire & Sato	(SEAL)
Date Inventor Signature	(SEAL)
Date Inventor Signature	(SEAL)
Date Inventor Signature	
Date Inventor Signature	(SEAL)
Date Inventor Signature	(SEAL)
Date Inventor Signature	(77.17.)
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside	(SEAL)
then it should be signed before at least two witnesses who also sign here: Date Mar. 16 2007 Witnesse Janvilan Augusta	(SEAL) (SEAL) (SEAL)

RECORDED: 03/28/2007

PATENT REEL: 019124 FRAME: 0356