Mail Stop:RECORDATION FORM OAssignment Recordation ServicesRECORDATION FORM ODirector of the U.S. PatentPATENTS ONand Trademark OfficeP.O. Box 1450P.O. Box 1450Alexandria, VA 22313-1450		NLY	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office rney Docket No. <u>151671</u>
Please record the attached document. Total number of pages including cover sheet, attachments, and document: <u>2</u>			
<ol> <li>A. Name of conveying parties:</li> <li>1. Hiroyuki UEMATSU</li> <li>2. Kenichi KAWABATA</li> </ol>	A	2. A. Name and TDK C 1-13-1,	address of receiving party: CORPORATION , NIHONBASHI, CHUO-KU, O 103-8272, JAPAN
<ul> <li>B. Additional name(s) of conveying</li> <li>3. A. Nature of conveyance:</li> </ul>	party(ies) attached? ] Yes 🛛 No	B. Additional	l name(s) & address(es) attached? □Yes ⊠No
	Merger Change of Name 1ber 2, 2011		
<ul> <li>4. A. Patent Application No. 13/310,959</li> <li>B. Patent No.(s)</li> <li>Additional numbers attached? ☐ Yes ⊠ No</li> </ul>			
C. Title of Application: <u>WIRING BOARD, ELECTRONIC COMPONENT EMBEDDED SUBSTRATE,</u> <u>METHOD OF MANUFACTURING WIRING BOARD, AND METHOD OF</u> <u>MANUFACTURING ELECTRONIC COMPONENT EMBEDDED SUBSTRATE</u>			
<ol> <li>Name and address of party to whom co concerning document should be mailed</li> </ol>	orrespondence	1	of applications and patents involved: $1$
Name: <u>James A. Oliff</u>		7. Please cha total fee (3	rge Deposit Account No. 15-0461 the 7 CFR 3.41) in the amount of \$ <u>40.00</u> .
Address: OLIFF & BERRIDGE P.O. Box 320850 Alexandria, VA 22320 Phone Number: 703-83 Fax Number: 703-836	) D-4850 86-6400	<ol> <li>Credit any over deposit account</li> </ol>	rpayment or charge any underpayment to t number 15-0461.
9. Statement and signature. To the best of my knowledge and believed original document James Adolian Registration No. 27,0	ef, the foregoing informatio		and any attached copy is a true copy of the December 5, 2011
Jeffrey R Bousquet, Registration No.	57,771		PATENT

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## U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, \*ASSIGNOR\*) by (Insert Name(s) & Address(es) of ASSIGNEE(S))

TDK Corporation

1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-6272, Japan (hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, essigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention) WIRING BOARD, ELECTRONIC COMPONENT EMBEDDED SUBSTRATE, METHOD OF MANUFACTURING WIRING BOARD, AND METHOD OF MANUFACTURING ELECTRONIC COMPONENT EMBEDDED SUBSTRATE and/or for which application for Lottors Patent of the United States was relating to International Patent Application PCT/IP executed on even date herewith or, if not so executed, was: (Insert date of execution of application, if not concurrent) (a) executed on December 2, 2011 Assignce's attorney is hereby authorized to insert in (b) the specified (b) filed on December 5, 2011 dota, when known. Serial No. and to said application and all Letters Paizat(a) of the United States granted on said application and any continuation, division, renewal, where some approximum and an Lemma 1 ansmus of the onlined charge graning on said approximation and any commission, dramon, renewal, substitute, reissue or reexamination application based thereon, for the full form or terms for which the said Letters Patch(s) may be granied and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patch(s)"). The ASSIGNOR agree(s), when requested by sald ASSIGNEE and without charge to but at the expanse of said ASSIGNEE, to do all acts which the ASSIGNEE may doen necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Lotters Patent(s), in any interference, reissue, examination, or public use proceeding, and in any litigation or other legal proceeding which may arise or he declared in relation to same, such sects to include but not be limited to exceeding all papers, including separate assignments and declarations, taking all rightful oaths, providing acts to include but not be limited to exceeding all papers. sworn testimony, and obtaining and producing cyldence. IN WITNESS WHERBOF, the undersigned inventor(s) has (havo) affixed his/her/ineir signature(s). 2, 2011 Dec. HIroyuki UEMATSU Venats (Date) Hirowski (Type Name) 2, (Signature) 2011 Dec. Kenichi KAWABATA (Date) (Type Name) Signature. (Date) (Type Name) (Signature) (Date) (Type Name) (Signature) (Date) (Type Name) (Signature)

**RECORDED: 12/05/2011** 

PATENT REEL: 027339 FRAME: 0131

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