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			A	ttorney Docket No.	<u>151267</u>			
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1.	A. Name of conveying parties: (1) Kosuke TANAKA (2) Susumu AOKI (3) Kei HIRATA (4) Makoto ISOGAI B. Additional name(s) of conveying	g party(ies) attached? □ Yes ⊠ No	TDK 1-13- CHU 103-8	d address of receiving party: CORPORATION , NIHONBASHI D-KU, TOKYO 272, JAPAN al name(s) & address(es) attached? Yes \ No				
3.	A. Nature of conveyance: Assignment Security Agreement Other B. Execution Date: October 21.	Merger Change of Name			ćes ⊠ No			
4.	 A. Patent Application No. 13/282 C. Title of Application: THER 	Additional numbers attached?						
5.	Name and address of party to whom concerning document should be maile	orrespondence		r of applications and				
	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.					
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9.	Statement and signature. To the best of my knowledge and believe original document. James A. Oliff, Registration No. 27,0 Justin F. Lingard, Registration No. 61	75		et and any attached c				

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ASSIGNMENT

		(1) K	osuke TANAKA	(5)			
(1-8)	Insert	(2) S	usumu AOKI	(6)			
	Name(s) of Inventor(s)	(3) <u>K</u>	ei HIRATA	(7)			
		(4) <u>M</u>	lakoto ISOGAI	(8)			
			In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to				
(9) Insert Name of Assignee (9) TDK Corporation							
(10)	Insert Address of Assignee			u, Tokyo, 103-8272, Japan			
		(hereinafte the entire r invention, continuation extensions	(hereinafter designated as the Assignce) and Assignce'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, international, confirmation, 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 Identification	(11)	HERMALLI-ASSIS	TED MAGNETIC RECORD	TNG HEAD		
	such as Title, Case Number, or Foreign Application Number	for which	(Attorney Docket No. 151267 for which the undersigned has (have) executed an application for patent in the United States of America				
(12)	Insert Date of	on even da	te herewith or				
(12)	Signing of	(12)	on 10.21.11-ALL				
	Application			12/282 042	•		
(13)	Alternative Identification for	(13)	U.S. application Serial Numb	er 13/282,943	<u> </u>		
	filed applications	filed	October 27, 2011				
any app the Ass claims reexam Patents full rigl and agr	olication or continuation or ignee in every way possible 3) Each undersigned agor provisions of the Internat 4) Each undersigned agination a grant of a valid Unito Each undersigned autof the United States resulting to convey the entire intervees that this assignment is to Each undersigned here.	trees to execute division thereo in obtaining erees to execute tional Conventi trees to perform nited States and recong from said agest herein assignation on him treby grants the	all papers necessary in connect, or any patent or reissue applyidence and going forward with all papers and documents and on for Protection of Industrial all affirmative acts which maent to the Assignee. Quests the Commissioner of the polication(s) to the said Assigned, and that he has not execuand his heirs, successors, assifirm of OLIFF & BERRIDGE, 1	perform any act which may be necessar Property or similar agreements. The necessary to obtain, maintain or content of the U.S. Patent and Trademark Office to the ee, as Assignee of the entire interest, at ted, and will not execute, any agreement	a, and to cooperate with ry in connection with infirm by reissue or issue any and all Letters and covenants that he has its in conflict herewith, ent any further		
	In witness whereof, exec	uted by the un		osite the undersigned name(s).			
Date	October 21,		Inventor Signature	Kosuke lana KG	(SEAL)		
Date	October 21,		Inventor Signature	Susumu Hoki	(SEAL)		
Date	October 21,		Inventor Signature	te linate	(SEAL)		
Date	October 21,	2011	Inventor Signature	Makoto Isogai	(SEAL)		
Date			Inventor Signature		(SEAL)		
Date			Inventor Signature		(SEAL)		
Date			Inventor Signature		(SEAL)		
Date			Inventor Signature		(SEAL)		
If neith			ned before: (a) a Notary Publi- wo witnesses who also sign h	if within the U.S.A. (b) a U.S. Consul	if outside the U.S.A.		
Date	October 21,	2011	Witness	mike later			
Date	October 21,	2011	Witness	Izumi Karjanagi			
			1				

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RECORDED: 10/27/2011