A/D 581-40

## 10/480781 DT15 Rec'd PCT/PTO 15 DEC 2003

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Alexandria, VA 22313-1450 102742684 Attorney Docket No. 118112										
		102742	2084							
12.15.03 Please record the attached original document or copy thereof.										
1.	A. Name of conveying partie Masaru IKEBE Kenji HASHIZUME	S:	2. A.	. Name and address of receiving party: TDK CORPORATION 1-13-1, NIHONBASHI CHUO-KU, TOKYO 103-8272, JAPAN						
	B. Additional name(s) of con	veying party(ics) attached?  ☐ Yes ☑ No								
3.	A. Nature of conveyance:		В.	B. Additional name(s) & address(es) attached?  ☐ Yes ☑ No						
		☐ Merger								
	Security Agreement	Change of Name								
	Other									
<u> </u> 	B. Execution Date: (All) De	cember 4, 2003	:							
4.	4. A. If this document is being filed together with a new application, the execution date of the application is: (All) December 2003  B. Patent Application No.(s) 1048078  C. Patent No.(s)									
İ		Additional numbers atta	1							
5.	Name and address of party to w concerning document should be		6. To	Total number of applications and patents involved: 1						
'	Name: <u>James A. Oliff</u> 2003 SNAJARRO 00000113 1048		7. A.							
FC:8	Address: OLIFF & BERRID P.O. Box 19 Alexandria, V.	928		Credit any overpayment or charge any underpayment to leposit account number 15-0461.						
9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.										
James A. Oliff Registration No. 27,075 Thomas J. Pardini Registration No. 30,411										
Total number of pages including cover sheet, attachments, and document: 2										

PATENT REEL: 015305 FRAME: 0475

## ASSIGNMENT

		(1)	Masaru IKEBE	(5)						
(1-8)	Insert	(2)	Kenji HASHIZUME	(6)						
	Name(s) of Inventor(s)	(3)		(7)						
		(4)		(8)						
	In consideration of the sum of one dollar (\$1.00) and other good and valua paid to each of the undersigned, each undersigned agrees to assign, and hereby does asset over to									
(9)	Insert Name of Assignee	(9)	TDK Corporation							
(10)	Insert Address of Assignee	(10)	1-13-1, Nihonbashi, Chuo-ku,	Tokyo 103-82	272 Janan					
(11)	Insert	(herein the ent inventi	nafter designated as the Assignee) ire right, title and interest for the ion, and in all applications for pat nation, substitute, and reissue app	r designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, ight, title and interest for the United States of America as defined in 35 U.S.C. §100, in the and in all applications for patent including any and all provisional, non-provisional, divisional, on, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and ion certificates that may be granted on the invention known as						
()	Identification	()	Disc Cartriage							
	such as Title, Case Number, or Foreign Application Number	•	(Attorney Docket No. 118112							
			ich the undersigned has (have) ex n date herewith or	kecuted an appl	ication for patent	in the United States o	f America			
(12)	Insert Date of Signing of Application	(12)	December 4, 2003				·			
(13)	Alternative Identification for filed applications	(13) U.S. application Serial Number  December 15, 2003 filed								
`any app the Assi claims of reexami resulting interest is bindin identific	lication or continuation or dividence in every way possible in 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree nation a grant of a valid Units 5) Each undersigned author g from said application(s) to therein assigned, and that he had on him and his heirs, succe 6) Each undersigned herebeation that may be necessary of this document.	s to execusion the obtaining to execuse and Converse to perfect States or izes and A as not execusors, as by grants or desirable.	nute all papers necessary in connected, or any patent or reissue appage evidence and going forward we ute all papers and documents are ention for Protection of Industria form all affirmative acts which may patent to the Assignee. It requests the Commissioner of Passignee, as Assignee of the entirectuted, and will not execute, any signs and legal representatives. The firm of OLIFF & BERRIDGE, ole in order to comply with the respective of the entirecture of the entirecture.	olication based ith such interfed perform any a la Property or si ay be necessary extents to issue interest, and by agreements in PLC the power ales of the Uniterest.	thereon, for the in rence.  Ict which may be milar agreements.  To obtain, mainta any and all Letter covenants that he conflict herewith to insert on this and ded States Patent and	necessary in connection in connection in or confirm by reiss a Patents of the Unite has full right to convent, and agrees that this assignment any further ind Trademark Office in	on with  sue or  d States ey the entire assignment			
		_	e undersigned on the date(s) op	· ^	Ž,	).				
Date	December 4, 200			Mason		(Masaru IKEBE)				
Date	December 4, 200	)3	Inventor Signature	Kenji	Hoshizume	(Kenji HASHIZUME)	(SEAL)			
Date			Inventor Signature	·		<del></del>	(SEAL)			
Date			Inventor Signature				(SEAL)			
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Date			Inventor Signature							
Date			Inventor Signature signed before: (a) a Notary Pub		U.S.A. (b) a U.S	6. Consul if outside th	(SEAL) te U.S.A.			
	-		ast two witnesses who also sign		Kata lanks					
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**RECORDED: 12/15/2003** 

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