Assistant Commissioner for Patents Box Assignments Washington, D.C. 20231 09-23-1999

101152311

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No. 103675

9	لا) ،	To the Assistant Commissioner for Patents: Please re	cord t	the attached original document or copy thereof.
1.	A. B.	Name of conveying party(ies): Yoshitaka SASAKI SEP 1 6 1999 Additional name(s) of conveying part BADE Mached?	2.	A. Name and address of receiving party(ies): TDK CORPORATION 1-13-1, NIHONBASHI, CHUO-KU, TOKYO, 103-8272, JAPAN
	υ. 	Yes ⊠ No		
3.	A.	Nature of conveyance:		B. Additional name(s) & address(es) attached? ☐Yes ☒ No
	\boxtimes	Assignment		1
		Security Agreement		
		Other		
	В.	Execution Date: July 29, 1999		
4.	Α.	If this document is being filed together with a new appl	icatio	on, the execution date of the application is: July 29, 1999
	В.	Patent Application No.(s) <u>09/338,529</u>		C. Patent No.(s)
		Additional numbers atta	iched?	? ☐ Yes ⊠ No
5.		ne and address of party to whom correspondence cerning document should be mailed:	6.	Total number of applications and patents involved: 1
	Na	me: James A. Oliff	7.	A. Total fee (37 CFR 3.41)\$\\\\ 40.00
				B. Enclosed (Check No. 103037)
	Ac	ldress: OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, VA 22320	8.	Credit any overpayment or charge any underpayment to deposit account number 15-0461.
9.	To	tement and signature. the best of my knowledge and belief, the foregoing inform original actument. Mom of Lindle	ation (is true and correct and any attached copy is a true copy of Date: September 16, 1999
		nes A. Oliff Registration No. 27,075 omas J. Pardini Registration No. 30,411		
	1110	Total number of pages in	ncludi	ing coversheet, attachments, and document: 2
				AYA A

PATENT REEL: 010248 FRAME: 0491

AS:	STG	N	ИF	N
	\mathbf{v}	T 4 T	,,,,,	17.

(1-8)	_				
	Insert	(2)		(6)	
	Name(s) of Inventor(s)		•		
	、 ,				
				lar (\$1.00) and other good and valuable consi	deration naid
				agree(s) to assign, and hereby does assign, tra	
(9)	Insert Name of	(0) III D.1	V Componetion		
(10)	Assignee Insert Address of	(9) <u>TD</u>	K Corporation	uo-ku, Tokyo, 103-8272, Ja	man
	Assigned \ P E	$\sum_{(10)} \frac{1-13}{1-13}$	3-1, NINONDASIII, CI	do-ku, 10kyo, 103-0272, 00	<u> </u>
	SEP 1 6 199	America as o	defined in 35 U.S.C. §100, in thisional, non-provisional, divisionatent, extensions, reissues and re	entire right, title and interest for the United St invention, and in all applications for patent i al, continuation, substitute, and reissue appli examination certificates that may be granted	ncluding any cation(s), and
(11)	Insert	(11) TH	N-FILM MAGNETIC H	AD AND METHOD OF MANUFACTO	JRING SAM
	Identification			C HEAD MATERIAL AND METHOL	OF,
	such as Title, Case Number, or Foreign	_MAI	NUFACTURING SAME		
	Application Number	(Attorney D	ocket No103675)
			e undersigned has (have) execute therewith or	ed an application for patent in the United Stat	es of America
(12)	Insert Date of Signing of	(12) on	July 29, 1999		
	Application	(12) 011 -	501y 25, 1555		
(12)	Alternative	(13) 11 \$	application Serial Number	09/338.529	
(13)	Identification for	(13) 0.3.		07/330,327	
	filed applications	filed	June 23, 1999		
any api	olication or continuation or ignee in every way possible	e(s) to execute al division thereof, e in obtaining ev	I papers necessary in connection or any patent or reissue application idence and going forward with se	with any interference which may be declared tion based thereon, for the invention, and to c uch interference.	ooperate with
any app the Ass claims reexam States a full rig conflic identifi	2) The undersigned agree collication or continuation or ignee in every way possible 3) The undersigned agree or provisions of the Interna 4) The undersigned agree ination a grant of a valid U 5) The undersigned here esulting from said applicate that to convey the entire interest therewith. 6) The undersigned here	e(s) to execute al division thereof, e in obtaining ev e(s) to execute al attional Convention e(s) to perform al inited States pate: by authorize(s) at ion(s) to the said rest herein assign	I papers necessary in connection or any patent or reissue applications and papers and documents and per on for Protection of Industrial Prill affirmative acts which may be not to the Assignee. Assignee, as Assignee of the end, and that he has (they have)	tion based thereon, for the invention, and to c uch interference. Form any act which may be necessary in conne	ooperate with ection with eissue or of the United (they have) nents in
any app the Ass claims reexam States a full rig conflic identifi	 The undersigned agree olication or continuation or ignee in every way possible. The undersigned agree or provisions of the Internation a grant of a valid U. The undersigned here esulting from said applicate to convey the entire intertation to the entire interest therewith. The undersigned here existence in the entire interest the en	e(s) to execute al division thereof, e in obtaining ev e(s) to execute al titional Convention e(s) to perform al inited States pate; by authorize(s) al ion(s) to the said rest herein assign by grant(s) the fin- isary or desirable	I papers necessary in connection or any patent or reissue application and going forward with a largers and documents and per on for Protection of Industrial Prell affirmative acts which may be not to the Assignee. Independent of the Commissioner Assignee, as Assignee of the eried, and that he has (they have) are of OLIFF & BERRIDGE, PLC in order to comply with the rule.	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connecessary or similar agreements. The necessary to obtain, maintain or confirm by respectively. The patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreent the power to insert on this assignment any furs of the United States Patent and Trademark Connections.	ooperate with ection with eissue or of the United (they have) nents in
any app the Ass claims reexam States if full rig conflic identifi records	2) The undersigned agree olication or continuation or ignee in every way possible 3) The undersigned agree or provisions of the Interna 4) The undersigned agree ination a grant of a valid U 5) The undersigned here esulting from said applicate that to convey the entire interest therewith. 6) The undersigned here cation which may be necessation of this document. In witness whereof, execution or continuation of the continua	e(s) to execute al division thereof, e in obtaining ev e(s) to execute al titional Convention e(s) to perform al inited States pater by authorize(s) an ion(s) to the said rest herein assign by grant(s) the finesary or desirable	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Propers and documents and per on for Protection of Industrial Properties of Industrial P	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connecessary or similar agreements. The necessary to obtain, maintain or confirm by respectively. The patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreent the power to insert on this assignment any furs of the United States Patent and Trademark Connections.	ooperate with ection with eissue or of the United (they have) ments in ther Office for
any app the Ass claims reexam States if full rig conflic identifi	 The undersigned agree olication or continuation or ignee in every way possible. The undersigned agree or provisions of the Internation a grant of a valid U. The undersigned here esulting from said applicate to convey the entire intertation to the entire interest therewith. The undersigned here existence in the entire interest the en	e(s) to execute al division thereof, e in obtaining ev e(s) to execute al titional Convention e(s) to perform al inited States pater by authorize(s) an ion(s) to the said rest herein assign by grant(s) the finesary or desirable	I papers necessary in connection or any patent or reissue application or any patent or reissue application or any patent or reissue application of Industrial Propers and documents and per on for Protection of Industrial Properties of Industrial P	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connecessary or similar agreements. The necessary to obtain, maintain or confirm by respectively. The patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreent the power to insert on this assignment any furs of the United States Patent and Trademark Connections.	ooperate with ection with eissue or of the United (they have) ments in ther Office for
any app the Ass claims reexam States if full rig conflic identifi records	2) The undersigned agree olication or continuation or ignee in every way possible 3) The undersigned agree or provisions of the Interna 4) The undersigned agree ination a grant of a valid U 5) The undersigned here esulting from said applicate that to convey the entire interest therewith. 6) The undersigned here cation which may be necessation of this document. In witness whereof, execution or continuation of the continua	e(s) to execute al division thereof, e in obtaining eve(s) to execute al attonal Convention e(s) to perform al (nited States pater by authorize(s) and ion(s) to the said rest herein assign by grant(s) the finsary or desirable cuted by the und	I papers necessary in connection or any patent or reissue application or any patent or reissue application or any patent or reissue application of Industrial Propers and documents and per on for Protection of Industrial Properties of Industrial P	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connected to similar agreements. For Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreements the power to insert on this assignment any furs of the United States Patent and Trademark Contents the undersigned name(s).	ooperate with ection with eissue or of the United (they have) ments in ther Office for
any app the Associalms reexam States a full rig conflic identific records	2) The undersigned agree of plication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation and the undersigned agree or provisions of the undersigned agree or provisions of the Internation a grant of a valid U. 5) The undersigned here esulting from said application to convey the entire interest the entire interest the convey the entire interest the en	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Convention e(s) to perform al mitted States pater by authorize(s) and inited States pater by authorize(s) and initial states are the said restricted by the said restricted by the under the said restricted by the said restricte	I papers necessary in connection or any patent or reissue application and going forward with a papers and documents and per for Protection of Industrial Properties of Indu	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connected to similar agreements. For Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreements the power to insert on this assignment any furs of the United States Patent and Trademark Contents the undersigned name(s).	ooperate with ection with eissue or of the United (they have) nents in ther Office for
any app the Ass claims reexam States of full rig conflic identific records	2) The undersigned agree olication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid U. 5) The undersigned here essulting from said applicate that to convey the entire intertaint to convey the entire intertaint to the undersigned here estion which may be necessation of this document. In witness whereof, executive in every support of the execution of t	e(s) to execute al division thereof, e in obtaining eve(s) to execute al attonal Convention e(s) to perform al (nited States paterby authorize(s) al ion(s) to the said rest herein assign by grant(s) the first sary or desirable exted by the und	I papers necessary in connection or any patent or reissue application or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Properties of Industrial P	tion based thereon, for the invention, and to cuch interference. form any act which may be necessary in connection of the control of the con	ooperate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL)
any app the Associalms reexam States of full rig conflic identifier records Date Date	2) The undersigned agree olication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid U. 5) The undersigned here essulting from said applicate that to convey the entire intertaint to convey the entire intertaint to the undersigned here estion which may be necessation of this document. In witness whereof, executive in the execution of the undersigned here existed the execution of the undersigned here existed the execution of the execution of the document.	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Convention e(s) to perform al mitted States pater by authorize(s) and inited States pater by authorize(s) and initial states are therein assign by grant(s) the first sary or desirable couted by the under the same are t	I papers necessary in connection or any patent or reissue application and going forward with a papers and documents and per for Protection of Industrial Properties of Indu	tion based thereon, for the invention, and to cuch interference. form any act which may be necessary in connected to similar agreements. Increasing to obtain, maintain or confirm by reconstruction of Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreen the power to insert on this assignment any furs of the United States Patent and Trademark Control of the undersigned name(s).	ooperate with ection with eissue or of the United (they have) nents in ther Office for (SEAL) (SEAL) (SEAL)
any app the Associalms reexam States of full rig conflic identific records Date Date	2) The undersigned agree of plication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid Uter of the undersigned here esulting from said application to convey the entire interest the entire interest the entire interest the entire interest that the convey the entire interest the entire inter	e(s) to execute al division thereof, e in obtaining eve(s) to execute al ational Conventioe(s) to perform al inited States pate; by authorize(s) al ion(s) to the said rest herein assign by grant(s) the first grant or desirable cuted by the und	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of any patent of reissue application of Industrial Property of	tion based thereon, for the invention, and to cuch interference. form any act which may be necessary in connected to similar agreements. Inccessary to obtain, maintain or confirm by recessary to obtain the property of the confirmation of the co	ooperate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)
any app the Associalms reexammed States in full rig confliction identifier records. Date Date Date Date Date Date Date Date	2) The undersigned agree olication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid U. 5) The undersigned here essulting from said applicate to convey the entire intert therewith. 6) The undersigned here established here established here established here established here established here established here. The undersigned here estation of this document. In witness whereof, execution of the estation of the estat	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Convention e(s) to perform al inited States pate; by authorize(s) and inited States pate; by authorize(s) and inited States pate; by grant(s) to the said rest herein assign by grant(s) the first sary or desirable cutted by the underly 9	I papers necessary in connection or any patent or reissue application and going forward with a papers and documents and per for Protection of Industrial Properties of Indu	tion based thereon, for the invention, and to cuch interference. form any act which may be necessary in connection of the control of the con	ooperate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)
any app the Associations reexaminates a full rig conflicing identification of the conflicing density of the conflicing den	2) The undersigned agree of plication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid Uter of the undersigned here esulting from said application to convey the entire interest the entire interest the entire interest the entire interest that the convey the entire interest the entire inter	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Convention e(s) to perform al inited States pate; by authorize(s) and inited States pate; by authorize(s) and inited States pate; by grant(s) to the said rest herein assign by grant(s) the first sary or desirable cutted by the underly 9	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Property of Industrial Pr	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connected to similar agreements. For Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreenthe power to insert on this assignment any furst of the United States Patent and Trademark of the undersigned name(s).	ooperate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)
any app the Associations reexaminates a full rig confliction identification of the confliction of the confli	2) The undersigned agree olication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Interna. 4) The undersigned agree ination a grant of a valid U. 5) The undersigned here essulting from said applicate that to convey the entire interest therewith. 6) The undersigned here cation which may be necessation of this document. In witness whereof, execution of the continuation of t	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Conventioe(s) to perform al mitted States pater by authorize(s) are ion(s) to the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by grant(s) the first pater by grant(s) the sign of the said rest herein assign by grant(s) the sign of the said rest pater by the sa	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Property of I papers and documents and per all affirmative acts which may be not to the Assignee. Indicate the Assignee of the end of the end of Industrial Property of Industrial Proper	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connection of perty or similar agreements. For Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreements of the United States Patent and Trademark (contents to the undersigned name(s). Figure 1. Sasaki	ooperate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)
any app the Associations reexaminates a full rig confliction identification of the confliction of the confli	2) The undersigned agree of plication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Internation a grant of a valid Uter of the undersigned here esulting from said application to convey the entire interest the entire interest the convey the entire interest the entire interes	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Conventioe(s) to perform al mitted States pater by authorize(s) are ion(s) to the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by grant(s) the first pater by grant(s) the sign of the said rest herein assign by grant(s) the sign of the said rest pater by the sa	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Profession of	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connecessary to obtain, maintain or confirm by recessary to obtain the property of the confirmation of the property of the confirmation of the confirmati	operate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)
any app the Associalms reexammed States of full rig confliction identification of the confliction of the con	2) The undersigned agree olication or continuation or ignee in every way possible. 3) The undersigned agree or provisions of the Interna. 4) The undersigned agree ination a grant of a valid U. 5) The undersigned here essulting from said applicate that to convey the entire interest therewith. 6) The undersigned here existed here existed here existed here existed here existed here. In witness whereof, execution of this document. In witness whereof, execution of the existed here existed here existed here. Tul. 29. This assignment should per, then it should be signed. Jul. 29.	e(s) to execute al division thereof, e in obtaining eve(s) to execute al titional Conventioe(s) to perform al mitted States pater by authorize(s) are ion(s) to the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by authorize for a sign of the said rest herein assign by grant(s) the first pater by grant(s) the first pater by grant(s) the sign of the said rest herein assign by grant(s) the sign of the said rest pater by the sa	I papers necessary in connection or any patent or reissue application or any patent or reissue application of any patent or reissue application of Industrial Profession of	tion based thereon, for the invention, and to cuch interference. Form any act which may be necessary in connection of perty or similar agreements. For Patents to issue any and all Letters Patents tire interest, and hereby covenants that he has not executed, and will not execute, any agreements of the United States Patent and Trademark (contents to the undersigned name(s). Figure 1. Sasaki	operate with ection with eissue or of the United (they have) ments in ther Office for (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)

RECORDED: 09/16/1999

PATENT REEL: 010248 FRAME: 0492