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	}						
102398513	Attorney's Docket No. 009683-443						
To the Honorable Commissioner of Patents and Trademarks.	Please record the attached original documents or copy thereof.						
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):						
Hideto HIDAKA Masatoshi ISHIKAWA Tsukasa OOISHI	Name: <u>Mitsubishi Denki Kabushiki Kaisha</u> Address: <u>2-3, Marunouchi 2-chome</u>						
Additional name(s) of conveying party(ies) attached? [] Yes [X] No	Chiyoda-Ku, Tokyo 100-8310						
3. Nature of conveyance:	JAPAN						
[X] Assignment [] Merger [] Security Agreement [] Change of Name Other:	Additional name(s) & address(es) attached? [] Yes [X] No						
Execution Date: January 31, 2003							
 Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No.(s) 	e execution date of the application is: January 31, 2003 B. Patent No.(s)						
Additional numbers attached? [] Yes [X] No							
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One						
Name: Platon N. Mandros	7. Total fee (37 CFR § 3.41): \$_40.00						
Address: Burns, Doane, Swecker & Mathis, L.L.P.	[X] Enclosed						
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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.						
Platon N. Mandros. Reg. No. 22 124 Name of Person Signing	March 11, 2003 Date						
<i>y</i> ,	Total number of pages including cover sheet, attachments, and document: 3						
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PATENT

(01/03)

REEL: 013866 FRAME: 0374

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ATTORNEY DOCKET NO. 009683-443

ASSIGNMENT

		Application No.					Filed	
Insert Name(s)	-	WHEREAS,	Hideto	HIDAKA,	Masatoshi	ISHIKAWA	and	
of Inventor(s)		Tsukasa OC	ISHI					
						-		
		(hereinafter design:	ited as the und	ersigned) has	(have) invented ce	rtain new and use	ful improvements in _	
Insert Title of Invention	=	THIN FILM	MAGNETIC	MEMORY	DEVICE SU	PPRESSING	RESISTANCE ()F_
		TRANSISTOR	S PRESEN	T IN CU	RRENT PATH	· · · · · · · · · · · · · · · · · · ·		
		for which an applic (except in the case o			United States of A	America has been o	executed by the unders	igned
Insert Date of Signing of Application	=	on	Jan	uary 31	2003			and
Insert Name of Assignee	→	WHEREAS,	Mits	subishi De	enki Kabushi	ki Kaisha		
Insert Address of Assignee	-	of	unouchi 2-	chome, Ch	iyoda-ku, T	DKYO 100-831	O JAPAN	<u> </u>
CHECK BOX	*	its heirs, successor acquiring the enti may be granted th [X] in any and all for	re right, title as erefor in the U	nd interest in Inited States (and to said inven	er designated as t tion and in and to	he Assignee) is desiro any Letters Patent(s	us of that
		paid, the receipt of has (have) sold, a Assignee the full a dependencies and	which is hereb ssigned and to and exclusive a possessions ar ted therefor in	y acknowledge ransferred, ar right to the sa nd the entire : I the United S	ed, and other good ad by these prese aid invention in t right, title and int tates of America, i	and valuable con tts does sell, assi he United States erest in and to ar ts territories, dep	o the undersigned in sideration, the undersign and transfer unto of America, its territary and all Letters Pate endencies and possess	igned said ories, ent(s)
		and to any and all terms for which th			tions, conversions	and extensions t	hereof for the full ter	m or

PATENT REEL: 013866 FRAME: 0375 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of BURNS, DOANE, SWECKER & MATHIS, L.L.P. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

			26. T. A. W. Leb	
Date	January 31, 2003	•	Name of Inventor Hideto HIDAKA	
Date	January 31, 2003		Name of Inventor Musatoshi Ishikawa Masatoshi ISHIKAWA	_
Date	January 31, 2003		Name of Inventor Sukasa OOISHI	
Date	•		Name of Inventor	_
Date			Name of Inventor	_
Date .			Name of Inventor	_
Date .	•		Name of Inventor	_
Date .			Name of Inventor	
Date			Name of Inventor	

RECORDED: 03/11/2003

PATENT REEL: 013866 FRAME: 0376