Attorney Docket No. 030	₀₁₂ 05-	27 - 2003	Γ OF COMMERCE	
2003	RECORDA'		d Trademark Office	
300	<u>l</u> 10:	2456449		
Commissioner for Patents	: Please record the attached or			
Submission type: XX — — —	New Resubmission (Non-Recordat Document ID #:_ Correction of PTO Error Reel # Frame # Corrective Document Reel # Frame #	ion) 	1-03	
Conveyance type:	-	Security Agreement Change of name Other	nt	
Conveying Party (ies):	(Last, First, Middle Initial)	Execution	on Date	
First party Name:	HORI, Yoshihiro	March 4	1, 2003	
Second party Name:	HIRAI, Tatsuya	March 2	4, 2003	
Third party Name:				
Additional name(s) of con	veying party(ies) attached? Y	es No XX		
Receiving Party (ies):				
First party Name:	SANYO ELECTRIC CO.	, LTD.		
Address:	5-5, Keihanhondori 2-cho	me, Moriguchi-shi, O	saka, Japan	
Second party Name:	HITACHI, LTD.			
Address:	6, Kandasurugadia 4-cho	me, Chiyoda-ku, Toky	o, Japan	
Additional name(s) & add	ress(es) attached? Yes No	o <u>XX</u>		
Domestic Representative Name and Address				
Armstrong, Westerman & Hattori, LLP 23850 Suite 1000, 1725 K Street PATENT TRADEMARK OFFICE Washington, D.C. 20006 (202) 659-2930				
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Page 2				
Correspondent Name and Address Telephone: 202-659-2930				
ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K Street, N.W., Suite 1000 Washington, D.C. 20006				
Pages Enter the total number of pages of the attached conveyance document: 4 (including any attachments, but not counting cover sheets)				
Application Number(s) or Patent Number(s) Additional numbers attached? Yes No XX A. Patent Application No.(s) B. Patent No.(s)				
10/340,832				
If this document is being filed together with a <u>new</u> application, enter the date the application was signed by the first named executing inventor: (Do not recite both application and patent numbers.)				
Patent Cooperation Treaty (PCT) Enter PCT application number only if a U.S. Application Number has not been assigned PCT PCT PCT PCT PCT PCT PCT PC				
Number of Properties Enter the total number of properties involved: 1				
Fee Amount Fee Amount for Properties Listed (37 CFR 3.41) \$40.00				
XX Enclosed				
Authorized to be charged to Deposit Account No.: 01-2340				
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. William L. Brooks Name of Person Signing Signature				
May 21, 2003 Date 34,129 Registration No.				
Rev. 11/00				

WLB:jaz

United States Patent Rights, or United States Plus All Foreign Patent Rights

ATTORNEY DOCKET NO. 030012

ASSIGNMENT

		Application No			Filed January 13, 200
Insert Name(s) of Inventor(s)	=	WHEREAS,	Yoshihiro HORI and T	'atsuya HIRAI	
		(harringfray davignates	l as the undersigned) has (have)	invented certain new and weeful	improvements in
Insert Title of Invention	→	-	ratus That Can Properl		•
		of Classified	l Data		
Insert Date of Signing of Application		(except in the case of a p			; and
Insert Name of Assignee	**	WHEREAS,	(1)Sanyo Electric C	o., Ltd. and (2)HITA	CHI, LTD.
				·	
Insert Address of Assignee	-		ihanhondori 2-chome, ! urugadai 4-chome, Chi	·	
CHECK BOX IF APPROPRIATE	=	its heirs, successors, lacquiring the entire may be granted there	egal representatives and assigns right, title and interest in and to for in the United States of Ame ign countries.	(hereinafter designated as the said invention and in and to a rica and	Assignee) is desirous of ny Letters Patent(s) that
		paid, the receipt of wh	FORE, in consideration of the su nich is hereby acknowledged, and gned and transferred, and by t	other good and valuable consid	eration, the undersigned

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

PATENT

Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions,

and if the box above is designated, in any and all foreign countries;

REEL: 014091 FRAME: 0412

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 Armstrong, Westerman & Hattori, LLP 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).

Date .	March 4, 200	•	Name of Inventor Yoshihiro HORI
Date .		•	Name of Inventor Tatsuya HIRAI
Date .		· ·	Name of Inventor
Date .		+	Name of Inventor
Date		· · · · · · · · · · · · · · · · · · ·	Name of Inventor
Date		<u> </u>	Name of Inventor
Date			Name of Inventor
Date		•	Name of Inventor
Date			Name of Inventor

United States Patent Rights, or United States Plus All Foreign Patent Rights

ATTORNEY DOCKET NO. 030012

ASSIGNMENT

		Application No Filed January 13, 2003
insert Name(s) of Inventor(s)	-	WHEREAS, Yoshihiro HORI and Tatsuya HIRAI
Insert Title of Invention	→	(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in Storage Apparatus That Can Properly Recommence Input and Output
		of Classified Data
		for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).
Insert Date of Signing of Application	→	on; and
Insert Name of Assignee	→	WHEREAS, (1)Sanyo Electric Co., Ltd. and (2)HITACHI, LTD.
Insert Address		
of Assignee	=	of (1) 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka, Japan; and
CHECK BOX	→	(2) 6, Kandasurugadai 4-chome, Chiyoda-ku, Tokyo, Japan its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.
		NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

terms for which the same may be granted.

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 Armstrong, Westerman & Hattori, LLP 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).

Date _		•	Name of Inventor_	Yoshihiro HORI
				Yoshihiro HORI
Date _	March 24, 2003	•	Name of Inventor_	Vaterna Idirai
				Tatsuya HIRAI
Date _		•	Name of Inventor_	
Date _		•	Name of Inventor_	
Date _		•	Name of Inventor	
D-4-			Name of Inventor	
Date _		•	Name of inventor_	
Data			Name of Inventor	
Date _		•		
Date			Name of Inventor_	
		•		
Date .		•	Name of Inventor_	

RECORDED: 05/21/2003