PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Sony Corporation	02/26/2010	

RECEIVING PARTY DATA

Name:	United Memories, Inc.
Street Address:	4815 List Drive, Suite 109
City:	Colorado Springs
State/Country:	COLORADO
Postal Code:	80919

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6608797

CORRESPONDENCE DATA

Fax Number: (303)899-7333

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 719-448-5947

Email: jllange@hhlaw.com

Correspondent Name: Hogan & Hartson LLP

Address Line 1: One Tabor Center

Address Line 2: 1200 17th Street, Suite 1500
Address Line 4: Denver, COLORADO 80202

ATTORNEY DOCKET NUMBER:	UMI-328
NAME OF SUBMITTER:	Scott J. Hawranek

Total Attachments: 11 source=DOC090#page1.tif source=DOC090#page2.tif source=DOC090#page3.tif source=DOC090#page4.tif

PATENT REEL: 024185 FRAME: 0540 H \$40.00 66087

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FORM	4 PTO-1595 (Rev. 03-09)	RECORDATION FOR	RM COVER SHEET	U.S. Department of Commerce
OMB No 0651-0027 (exp 03/31/2009) PATENTS ON			NLY	U.S. Patent and Trademark Office
	To the Director of the U.S	S. Patent and Trademark Office: Please	e record the attached documents or the new address(e.	es) below.
1.	Name of conveying party(ies)):	Name and address of receiving party	
Addit	Sony Corporation – execution tional name(s) of conveying party(ies) atta		United Memories, Inc. 4815 List Drive, Suite 109 Colorado Springs, CO 80919 Additional name(s) & address(es) attach	hed? 🗌 Yes 🔀 No
3.	Nature of conveyance/Executi			
	Execution Date(s) February 26	1		
	Assignment Security Agreement Joint Research Agreem Government Interest A Executive Order 9424, Other	Assignment		
4.	Application or patent number(s If this document is being filed		nis document is being filed together war, the execution date of the application is:	ith a new application.
	A. Patent Application No.(s)		B. Patent No.(s) <u>6,608,797</u>	
	Attorney Docket No.: UMI-32	18		
	Additional numbers attache	ed? Yes No		
5.	Name and Address of party to concerning document should b		6. Total number of applications and	d patents involved: 1
	Name: <u>William J. Kubida</u> Internal Address: <u>Hogan & F</u>		7. Total fee (37 CFR 1.21(h) & 3.4	1)\$ 40.00
	One Tabor Co	Center eet, Suite 1500	Authorized to be charged to	deposit account
	Street Address: same as ab	bove	☐ Enclosed ☐ None required (governme	- of interest and
	City: Denver State: CO 2	Zip: <u>80202</u>	affecting title)	ent interest not
Phone Number: <u>719-448-5909</u> Fax Number: <u>719-448-5922</u> Email Address: <u>PatentColorado@hhlaw.com</u>		@hhlaw.com	8. Deposit Account Number: 50-1123 Authorized User Name:	
	\sim			
9.	Signature: Signature		Ulz 2010 Date	
	Scott J. Hawranek Name of Person signing			
	Total numb	per of pages including cover she	eet, attachments, and documents: 11	!



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HOGAN & HARTSON LIP

UMI-328

JUNE 26, 2002

PTAS

Chief Information Officer Washington, DC 20231 www.uspto.gov

HOGAN & HARTSON LLP WILLIAM J. KUBIDA ONE TABOR CENTER 1200 17TH STREET, SUITE 1500 DENVER, CO 80202



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/18/2002

REEL/FRAME: 012827/0338

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PARRIS, MICHAEL C.

DOC DATE: 04/17/2002

ASSIGNOR:

HARDEE, KIM C.

DOC DATE: 04/17/2002

ASSIGNOR:

JONES JR., OSCAR FREDERICK DOC DATE: 04/17/2002

ASSIGNEE:

UNITED MEMORIES, INC. 4815 LIST DRIVE, SUITE 109 COLORADO SPRINGS, COLORADO 80919

ASSIGNEE:

SONY CORPORATION 6-7-35 KITA-SHINAGAWA SHINAGAWA-KU TOKYO, JAPAN 141-0001

012827/0338 PAGE 2

SERTAL NUMBER: 10125756

PATENT NUMBER:

FILING DATE: 04/18/2002

ISSUE DATE:

MARCUS KIRK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1595 (Rev 3-01) OMB No 0651-00 ¹⁷ (exp 5/31):	4	18	N/	RI



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Total number of pages including cover sheel	et, attachments and document: _5
William J. Kubida Name of Person signing Signature	Date Date Date Date Date
2. Statement and signature.	
DO NOT USE T	'HIS SPACE
	50-1123 (Attach duplicate copy of this page if paying by deposit account)
	8. Deposit account number:
Street Address: same as above City: Denver State: CO Zip: 80202	Authorized to be charged to deposit account
Internal Address: Hogan & Hartson LLP One Tabor Center	7. Total fee (37 CFR 3.41)\$ 40.00
Name: William J. Kubida	
5. Name and Address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Attorney Docket No.: UMI-328 Additional numbers attached? Yes No	
A. Patent Application No.(s)	B. Patent No.(s)
4. Application number(s) or patent number(s): If this document is being filed together with a new application	on, the execution date of the application is: 04/17/02
U Other Execution Date: 04/17/02	10/125756
3. Nature of conveyance:	Additional name(s) & address(es) attached? Yes No
Additional name(s) of conveying party(ies) attached? Yes No	Name: Sony Corporation Street Address: 6-7-35 Kita-shinagawa Shinagawa-ku Tokyo, Japan 141-0001
Kim C. Hardee Oscar Frederick Jones, Jr.	Colorado Springs, CO 80919 AND
Michael C. Parris	Name and address of receiving party(ies) Name: United Memories, Inc. Street address: 4815 List Drive, Suite 109
Name of conveying party(ies):	
To the Honorable Commissioner of Lucius and Trademarks	Please record the attached original documents or copy thereof.
	U.S. Department of Comm

PATENT EXPRESS MAIL NO. EV035491384US Attorney Docket No. UMI-328 Client/Matter No. 80450.0058

ASSIGNMENT

WHEREAS, we, Michael C. Parris, having a residence address of 5715 Daltry Lane, Colorado Springs, CO 80906; Kim C. Hardee, having a residence address of 9760 Kit Carson Ln., Colorado Springs, CO 80920; and Oscar Frederick Jones, Jr., having a residence address of 7235 Suntide Place, Colorado Springs, CO 80919, have made a certain new and useful invention relating to a AUTOMATIC DELAY TECHNIQUE FOR EARLY READ AND WRITE OPERATIONS IN SYNCHRONOUS DYNAMIC RANDOM ACCESS MEMORIES, for which we are making or we have made application for Letters Patent of the United States, said application being identified by Docket No. UMI-328 and Client/Matter No. 80450.0058, in the law firm of HOGAN & HARTSON LLP, One Tabor Center, 1200 17th Street, Suite 1500, Denver, Colorado 80202, and which is executed concurrently herewith, and

WHEREAS, we now own the entire right, title and interest therein; and WHEREAS, United Memories, Inc., a Colorado corporation, whose post office address is 4815 List Drive, Suite 109, Colorado Springs, CO 80919, and Sony Corporation whose post office address is 6-7-35 Kita-shinagawa, Shinagawa-ku, Tokyo, Japan 141-0001, hereinafter collectively known as ASSIGNEES, are desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor:

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NOW THEREFORE, upon consideration of our employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, we do hereby sell and assign unto ASSIGNEE, and ASSIGNEE's legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both of the United States and of other countries, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, we do hereby covenant and agree with ASSIGNEE that we will not execute any writing or do any act whatsoever conflicting with this assignment, and that we will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, execute such additional assignments and other writings and do such additional acts as ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this grant, and render all necessary assistance in applying for and obtaining original, continuation, continuation-in-part, divisional, reexamined, renewal, reissued or extended Letters Patent of the United States, or of other countries, or inventor's certificates, on said invention, and in enforcing any rights or causes in action accruing as a result of such applications, certificates, or patents, by giving testimony in any proceedings or transactions involving such applications, certificates, or patents, and by executing preliminary statements and other

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affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals on the date hereinafter set forth.

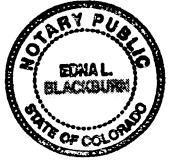
Date: 4/1/02	Michael C. Parris
STATE OF COLORADO)
COUNTY OF EL PASO) ss.)

On this 17th day of April , 2002, before me, a notary public in and for said county, appeared Michael C. Parris, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed, and delivered the same instrument as a free and voluntary act for the uses and purposes therein set forth.

My commission expires May 17, 2005

Witness my hand and official seal.

(SEAL)



Notary Public

Date: -/17/02 Kim C. Hardee
STATE OF COLORADO)
COUNTY OF EL PASO) ss.
On this <u>17th</u> day of <u>April</u> , 2002, before me, a notary public in and for said county, appeared Kim C. Hardee, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed, and delivered the same instrument as a free and voluntary act for the uses and purposes therein set forth.
My commission expires May 17, 2005
Miles mahand and official seal.
(SEAL) EDNAL Blackburn Notary Public
Date: 4 17 Oscar Frederick Jones, Jr.
STATE OF COLORADO)
COUNTY OF EL PASO) ss.
On this <u>17th</u> day of <u>April</u> , 2002, before me, a notary public in and for said county, appeared Oscar Frederick Jones, Jr., who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed, and delivered the same instrument as a free and voluntary act for the uses and purposes therein set forth.
My commission expires May 17, 2005
Witness my hand and official seal.
(SEAL) Start Public Notary Public

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CONFIRMATORY ASSIGNMENT OF PATENTS

This Assignment of Patents ("Assignment") is made and entered into on this 26th day of february

SONY Corporation, a Japan Corporation, with a principal place of business at 1-7-1 Konan, Minato-ku, Tokyo Japan 108-0075 ("ASSIGNOR"); and United Memories Inc., a Colorado Corporation, with a principal place of business at 4815 List Drive, Suite 109, Colorado Springs, Colorado 80919 ("ASSIGNEE").

WHEREAS, ASSIGNOR has agreed to assign and transfer to ASSIGNEE all right, title and interest in and to the Assignor's Rights (as defined below).

NOW, THEREFORE, in consideration of the sum of one dollar (US\$1.00), the agreements related to this Assignment, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR, intending to be legally bound, and upon the terms set forth herein, agrees as follows:

ASSIGNOR does hereby irrevocably assign, sell, transfer and set over to ASSIGNEE its entire right, title and interest in, to and under the patents and patent applications set forth on Attachment A attached hereto, including all rights pursuant to 35 U.S.C. § 154 any and all letters patents issuing from any continuing, and divisional applications; any requests for continuing examination, substitutions, reissues, extensions, renewals and reexaminations of any of the foregoing; all inventions and discoveries described in any of the forgoing; and all rights to apply in any country for any foreign counterpart, certification of invention or other governmental grant or issuance corresponding to any of the foregoing throughout the world (collectively, "Assignor's Rights"), including any and all past, present and future causes of action and other enforcement actions (including, without limitation, for injunctive remedies and relief) and rights to damages and profits, due or accrued, relating to any of the foregoing, including the right to sue and recover for, and the right to profits and damages, due or accrued, arising out of or in connection with, any and all past, present or future infringements or dilutions.

The terms and conditions of this Assignment will inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives and will be binding upon ASSIGNOR, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment of Patents to be executed by its duly authorized representative on the date set forth below.

Assignor:

SONY Corporation
A Japan Corporation

Name: Fumihiko Moriva

Title: VP, Semor General Manager Intellectual Property Division

Date: Feb. 26, 2010

Address 1-7-1 Konan Minato-Ku Tokyo Japan 108-0078 Accepted by Assignee:
United Memories Corporation
A Colorado Corporation

Name: Robert L. Gower

Title: President and CEO

Date: \(\overline{\chi_{\text{Av.}}}\), 2010

Address

4815 List Drive, Suite 109 Colorado Springs CO 80919

ATTACHMENT A

Jurisdiction	<u>Title</u>	<u>Appl.</u> <u>Number</u>	Filing Date	<u>Issue No.</u>	Issue Date
US	Two Phase Charge Sharing Data			6 424 060	9/12/02
JР	Two Phase Charge Sharing Data			6,434,069	8/13/02
US	Reduced Skew Write Circuit			3,488,433 6,278,653	10/31/03 8/21/01
JР	Reduced Skew Write Circuit			3,492,321	11/15/03
US	Delayed Start Oscillator			6,317,007	11/13/03
JР	Sync. Re-align Tech For Time			3,493,176	11/13/01
US	Local Write Driver Ckt. For DRAM			6,414,897	7/02/02
JР	Local Write Driver Ckt. For DRAM			3,939,493	3/13/07
JР	Local Write Driver Ckt. For DRAM	260,686/06	9/26/06	5,555, 155	3/13/07
US	Method For Constant Testing	,	21.20, 00	6,732,305	5/04/04
US	Look Ahead Refresh			6,625,078	9/22/03
JР	Look Ahead Refresh	247,223/07	8/27/02	0,020,070	y, 22 , 03
JР	Look Ahead Refresh (DIV)	009,511/08	2/15/08		
US	Method for Non-VCC/2 BL Prechg			6,570,799	5/27/03
JР	Method for Non-VCC/2 BL Prechg	240,327/06	09/05/06	, ,	
US	Auto Delay for Early R/W SDRAM			6,608,797	8/19/03
JP	Auto Delay for Early R/W SDRAM			3,952,393	5/11/07
US	Data Path Decoding for an EDRAM			6,625,066	9/22/03
JP	Data Path Decoding for an EDRAM			4,246,454	1/16/09
US _{>}	-Data Path Decoding for an EDRAM			6,625,069	9/22/03
US	Simultaneous Function DRAM			6,643,212	11/04/03
JP US	Simultaneous Function DRAM			3,949,543	4/27/07
JР	Look Ahead Refresh DRAM			6,667,927	12/23/03
US	Look Ahead Refresh DRAM			3,979,950	7/06/07
US	Asynchronous Input Data Path			6,744,690	6/01/04
JР	Reduced Output Delay Buffer Reduced Output Delay Buffer			7,161,214	1/09/07
US	Non-Contiguous Masked Refresh			4,124,699	5/16/08
US	Bitline Reference Voltage Circuit			6,912,168	6/28/05
US	Bandgap Reference Circuit			6,788,590	9/07/04
JР	Bandgap Reference Circuit			6,815,941	11/09/04
US	Dual WL Mode for DRAMs			3,759,513	1/13/06
US	Synchronous SRAM Compatible	11/062,974	2/22/05	7,002,874	2/21/06
JР	Synchronous SRAM Compatible	11/002,9/4	2/22/03	4,304,176	<i>5 (</i> 01 /00
US	SRAM Compatible High Avail			7,506,100	5/01/09
US	SRAM Compatible High Avail	12/254,702	10/20/08	7,500,100	3/17/09
JР	SRAM Compatible High Avail	12/23 1,702	10/20/08	4,304,172	4/07/09
US	Dynamic Exclusive OR Gate			7,298,171	11/20/07
US	Switched Capacitor Charge Sharing			7,609,570	10/27/09
JР	Switched Capacitor Charge Sharing	212,229/07	9/15/07	7,005,570	10/2//09
US	Optimized Charge Sharing	,,	2.23.01	7,606,093	10/20/09
JР	Optimized Charge Sharing	248,988/07	11/21/07	.,000,073	10/20/09
US	Multiple Data Bus Charge Sharing		· ·	7,580,304	8/25/09
JP	Multiple Data Bus Charge Sharing	212,249/07	8/3/07	.,,	0,20,07

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US	Data Inversion Testing Memories			7.621.222	10/00/00
JР	Data Inversion Testing Memories	315,170/07	12/05/07	7,631,233	12/08/09
US	Error Correction Code Circuit Test	11/840,203	8/16/07		
JP	Error Correction Code Circuit Test	267,178/07	10/12/07		
US	Check Bits in H Matrix Error Det	11/855,070	9/13/07		
JР	Check Bits in H Matrix Error Det	269,577/07	10/16/07		
US	DRAM Early Write with Masking	11/855,804	9/14/07		
JP	DRAM Early Write with Masking	274,362/07	10/22/07		
US	Short Circuit Charge Sharing	11/855,091	9/13/07		
JР	Short Circuit Charge Sharing	269,576/07	10/16/07		

- Series

RECORDED: 04/06/2010