

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Sony Corporation	02/26/2010
<b>RECEIVING PARTY DATA</b>	
Name:	United Memories, Inc.
Street Address:	4815 List Drive, Suite 109
City:	Colorado Springs
State/Country:	COLORADO
Postal Code:	80919
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Patent Number:	6570799
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(303)899-7333
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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-327
NAME OF SUBMITTER:	Scott J. Hawranek
Total Attachments: 10 source=DOC089#page1.tif source=DOC089#page2.tif source=DOC089#page3.tif source=DOC089#page4.tif	

**CH \$40.00 6570799**

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**PATENT  
 REEL: 024185 FRAME: 0528**

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source=DOC089#page10.tif

**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p>1. Name of conveying party(ies):</p> <p>Sony Corporation – execution date: 02/26/2010</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Name and address of receiving party</p> <p>United Memories, Inc. 4815 List Drive, Suite 109 Colorado Springs, CO 80919</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of conveyance/Execution Date(s):

Execution Date(s) February 26, 2010

Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

4. Application or patent number(s):  This document is being filed together with a new application.  
If this document is being filed together with a new application, the execution date of the application is:

<p>A. Patent Application No.(s)</p> <p>Attorney Docket No.: UMI-327</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No.(s) <u>6,570,799</u></p>
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5. Name and Address of party to whom correspondence concerning document should be mailed:

Name: William J. Kubida  
Internal Address: Hogan & Hartson LLP  
One Tabor Center  
1200 17th Street, Suite 1500  
Street Address: same as above  
City: Denver State: CO Zip: 80202


Phone Number: 719-448-5909  
Fax Number: 719-448-5922  
Email Address: PatentColorado@hhlaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41)..... \$ 40.00

Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

8. Deposit Account Number:  
50-1123  
Authorized User Name:  
\_\_\_\_\_

9. Signature:  Date: 4/2/2010

Scott J. Hawranek  
Name of Person signing

Total number of pages including cover sheet, attachments, and documents: 10



RECEIVED

MAY 28 2002

HOGAN & HARTSON, LLP

MAY 21, 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



\*102035155A\*

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

UMI-327

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: 03/14/2002

REEL/FRAME: 012715/0277  
NUMBER OF PAGES: 4

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

ASSIGNOR:

PARRIS, MICHAEL C.

DOC DATE: 03/13/2002

ASSIGNEE:

UNITED MEMORIES, INC  
4815 LIST DRIVE, SUITE 109  
COLORADO SPRING, COLORADO 80911

ASSIGNEE:

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

SERIAL NUMBER: 10099333

PATENT NUMBER:

FILING DATE: 03/14/2002

ISSUE DATE:

PATENT  
REEL: 024185 FRAME: 0531

012715/0277 PAGE 2

SHARON BROOKS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

03-28-2002



HEET

U.S. Department of Commerce  
Patent and Trademark Office

To the Honorable Commissioner

102035155

... original documents or copy thereof.

1csys U.S. PTO  
10/099333  
03/14/02

1. Name of conveying party(ies):

Michael C. Parris

3-14-02

Additional name(s) of conveying party(ies) attached?  Yes  No

Name and address of receiving party(ies)

Name: United Memories, Inc.  
Street address: 4815 List Drive, Suite 109  
Colorado Springs, CO 8091

AND  
Name: Sony Corporation  
Street Address: 6-7-35 Kita-shinagawa  
Shinagawa-ku  
Tokyo, Japan 141-0001

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: 3/13/02

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 03/13/02

10,099333

A. Patent Application No.(s)

Attorney Docket No.: UMI-327

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and Address of party to whom correspondence concerning document should be mailed:

Name: William J. Kubida  
Internal Address: Hogan & Hartson LLP  
One Tabor Center  
1200 17th Street, Suite 1500  
Street Address: same as above  
City: Denver State: CO Zip: 80202

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

50-1123

(Attach duplicate copy of this page if paying by deposit account)

03/27/2002 TDIAZ1 00000235 10099333

017C:581 40.00 OP

DO NOT USE THIS SPACE

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.

William J. Kubida  
Name of Person signing

Signature

Date

14 March 2002

Total number of pages including cover sheet, attachments and document: 4

PATENT  
EXPRESS MAIL NO. EV035491146US  
Attorney Docket No. UMI-327  
Client/Matter No. 80450.0057

## ASSIGNMENT

WHEREAS, I, Michael C. Parris, having a residence address of 5715 Daltry Lane, Colorado Springs, CO 80906, have made a certain new and useful invention relating to a PRECHARGE AND REFERENCE VOLTAGE TECHNIQUE FOR DYNAMIC RANDOM ACCESS MEMORIES, for which I am making or have made application for Letters Patent of the United States, said application being identified by Docket No. UMI-327 and Client/Matter No. 80450.0057, 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, I 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;

NOW THEREFORE, upon consideration of my employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, I do hereby sell and assign unto ASSIGNEES, and ASSIGNEES' 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 I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEES, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, I do hereby covenant and agree with ASSIGNEES that I will not execute any writing or do any act whatsoever conflicting with this assignment, and that I will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEES, execute such additional assignments and other writings and do such additional acts as ASSIGNEES may deem necessary or desirable to perfect the ASSIGNEES' 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 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, I have hereunto set my hand and affixed my seal on the date hereinafter set forth.



Date: 3/13/02

Michael C. Parris  
Michael C. Parris

STATE OF COLORADO )

COUNTY OF El Paso )

ss.

On this 13<sup>th</sup> day of March, 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 Aug 13, 2003

Witness my hand and official seal.

(SEAL)

Paula Jean Williams  
Notary Public

## CONFIRMATORY ASSIGNMENT OF PATENTS

This Assignment of Patents ("*Assignment*") is made and entered into on this 26<sup>th</sup> day of February 2010, by and between:

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 foregoing; 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


By:   
Name: Fumihiko Moriya

Title: VP, Senior 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

By:   
Name: Robert L. Gower

Title: President and CEO

Date: Jan. 28, 2010

Address  
4815 List Drive, Suite 109  
Colorado Springs CO 80919

ATTACHMENT A

<u>Jurisdiction</u>	<u>Title</u>	<u>Appl. Number</u>	<u>Filing Date</u>	<u>Issue No.</u>	<u>Issue Date</u>
US	Two Phase Charge Sharing Data ...			6,434,069	8/13/02
JP	Two Phase Charge Sharing Data ...			3,488,433	10/31/03
US	Reduced Skew Write Circuit			6,278,653	8/21/01
JP	Reduced Skew Write Circuit			3,492,321	11/15/03
US	Delayed Start Oscillator			6,317,007	11/13/01
JP	Sync. Re-align Tech For Time ...			3,493,176	11/14/03
US	Local Write Driver Ckt. For DRAM			6,414,897	7/02/02
JP	Local Write Driver Ckt. For DRAM			3,939,493	3/13/07
JP	Local Write Driver Ckt. For DRAM	260,686/06	9/26/06		
US	Method For Constant Testing ...			6,732,305	5/04/04
US	Look Ahead Refresh			6,625,078	9/22/03
JP	Look Ahead Refresh	247,223/07	8/27/02		
JP	Look Ahead Refresh (DIV)	009,511/08	2/15/08		
US	Method for Non-VCC/2 BL Prechg			6,570,799	5/27/03
JP	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	Simultaneous Function DRAM			3,949,543	4/27/07
US	Look Ahead Refresh DRAM			6,667,927	12/23/03
JP	Look Ahead Refresh DRAM			3,979,950	7/06/07
US	Asynchronous Input Data Path			6,744,690	6/01/04
US	Reduced Output Delay Buffer			7,161,214	1/09/07
JP	Reduced Output Delay Buffer			4,124,699	5/16/08
US	Non-Contiguous Masked Refresh			6,912,168	6/28/05
US	Bitline Reference Voltage Circuit			6,788,590	9/07/04
US	Bandgap Reference Circuit			6,815,941	11/09/04
JP	Bandgap Reference Circuit			3,759,513	1/13/06
US	Dual WL Mode for DRAMs			7,002,874	2/21/06
US	Synchronous SRAM Compatible	11/062,974	2/22/05		
JP	Synchronous SRAM Compatible			4,304,176	5/01/09
US	SRAM Compatible High Avail...			7,506,100	3/17/09
US	SRAM Compatible High Avail ...	12/254,702	10/20/08		
JP	SRAM Compatible High Avail ...			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
JP	Switched Capacitor Charge Sharing	212,229/07	9/15/07		
US	Optimized Charge Sharing			7,606,093	10/20/09
JP	Optimized Charge Sharing	248,988/07	11/21/07		
US	Multiple Data Bus Charge Sharing			7,580,304	8/25/09
JP	Multiple Data Bus Charge Sharing	212,249/07	8/3/07		

US	Data Inversion Testing Memories			7,631,233	12/08/09
JP	Data Inversion Testing Memories	315,170/07	12/05/07		
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		
JP	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		
JP	Short Circuit Charge Sharing	269,576/07	10/16/07		

