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 D)ATA				
Name:	United Memorie	es, Inc.			
Street Address:	4815 List Drive	e, Suite 109			
City:	Colorado Sprin	ngs			
State/Country:	COLORADO				
Postal Code:	80919				
PROPERTY NUMBER	S Total: 1				
Property Ty	уре	Number			
Patent Number:	6	3414897			
CORRESPONDENCE	DATA		6414897		
Fax Number:	(303)899-	-7333	e		
Correspondence will F		Aail when the fax attempt is unsuccessful.	ē		
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Phone:	719-448-5	5947	\$40.00 \$		
Phone: Email:	719-448-5 jllange@h	5947 hlaw.com			
Phone:	719-448-5 jllange@h : Hogan & l	5947 hhlaw.com Hartson LLP	CH 540		
Phone: Email: Correspondent Name: Address Line 1:	719-448-5 jllange@h : Hogan & l One Tabo	5947 hIlaw.com Hartson LLP or Center			
Phone: Email: Correspondent Name:	719-448-5 jllange@h : Hogan & l One Tabo 1200 17th	5947 hhlaw.com Hartson LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	719-448-5 jllange@h : Hogan & l One Tabo 1200 17th Denver, C	5947 hhlaw.com Hartson LLP or Center า Street, Suite 1500			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	719-448-5 jllange@h : Hogan & l One Tabo 1200 17th Denver, C	5947 hhlaw.com Hartson LLP or Center n Street, Suite 1500 COLORADO 80202			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET	719-448-5 jllange@h Hogan & I One Tabo 1200 17th Denver, C NUMBER: R: e1.tif e2.tif e3.tif	5947 hhlaw.com Hartson LLP or Center n Street, Suite 1500 COLORADO 80202 UMI-313			

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FORM PTO-1595 (Rev. 03-09) RECORDATION FOI	•					
ОМВ No 0651-0027 (exp. 03/31/2009) РАТЕЛТЯ ОТ	U S Patent and Trademark Office					
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.						
1. Name of conveying party(ies):	Name and address of receiving party					
Sony Corporation execution date: 02/26/2010	United Memories, Inc. 4815 List Drive, Suite 109 Colorado Springs, CO 80919 Additional name(s) & address(es) attached? Yes No					
Additional name(s) of conveying party(ies) attached? 🔲 Yes 🔀 No	4					
3. Nature of conveyance/Execution Date(s):						
Execution Date(s) February 26, 2010						
 Assignment						
4. Application or patent number(s): If this document is being filed together with a new application	his document is being filed together with a new application. on, the execution date of the application is:					
A. Patent Application No.(s)	B. Patent No.(s) <u>6,414,897</u>					
Attorney Docket No.: UMI-313						
Additional numbers attached? 🗌 Yes 🔀 No						
5. Name and Address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1					
Name: <u>William J. Kubida</u> Internal Address: <u>Hogan & Hartson LLP</u>	7. Total fee (37 CFR 1.21(h) & 3.41)\$ 40.00					
One Tabor Center 1200 17th Street, Suite 1500 Street Address: same as above City: Denver State: CO Zip: 80202	Authorized to be charged to deposit account Enclosed None required (government interest not					
Phone Number: 719-448-5909	affecting title) 8. Deposit Account Number:					
Fax Number: <u>719-448-5922</u> Email Address: <u>PatentColorado@hhlaw.com</u>	8. Deposit Account Number: <u>50-1123</u> Authorized User Name:					
9. Signature: Signature	Date					
Scott J. Hawranek Name of Person signing						
Total number of pages including cover sh	neet, attachments, and documents: <u>12</u>					





PTAS

NOVEMBER 02, 2000

HOGAN & HARTSON LLP WILLIAM J. KUBIDA, ESQ. 1200 17TH STREET, SUITE 1500 DENVER, COLORADO 80202 Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

UNITED STATES DEPARTMENT OF COMMERCE



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: 08/31/2000

REEL/FRAME: 011069/0597 NUMBER OF PAGES: 6

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

ASSIGNOR: HARDEE, KIM CARVER

ASSIGNOR: PARRIS, MICHAEL

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

SERIAL NUMBER: 09651939 PATENT NUMBER: DOC DATE: 08/29/2000

DOC DATE: 08/29/2000

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HOGAN & HARTSON, LLP

FILING DATE: 08/31/2000 ISSUE DATE:

011069/0597 PAGE 2

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ALLYSON PURNELL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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Nume 101462663 T PATENTS UNL, PATENTS UNL, To: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(les). Submission Type Conveyance Type New Assignment Document ID# License Correction of PTO Error Merger Corrective Document Frame # Corrective Document Frame # Corrective Document Merger Other U.S. Government Agencies) Reci# Frame # Corrective Document Merger Other U.S. Government Agencies) Reci# Frame # Corrective Document Mark if additional names of conveying parties attached Name (ine 1) Hardee, Kim Carver Name (ine 2) August 29, 2000 Secord Party Name (ine 1) Name (ine 2) August 29, 2000 Receiving Party Of / CoS1 93 f Mark if additional names of receiving parties attached In a corporation If a corporation attached in the United Memories, Inc. Name (ine 1) United Memories, Inc. Name (ine 2) <th></th> <th></th> <th>09-19-20</th> <th>00 _{U.S} Pa</th> <th>5. Department of Commerce Itent and Trademark Office PATENT</th> <th></th>			09-19-20	00 _{U.S} Pa	5. Department of Commerce Itent and Trademark Office PATENT	
TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(les). Submission Type Conveyance Type New Assignment Bocument IDB Conveyance Type Correction of PTO Error Merger Corrective Document Merger Corrective Document Frame # Corrective Document Us. Government Agencies) Recit# Frame # Corrective Document Merger Other Execution Date Mark if additional names of conveying parties attached Month Day Year Name (line 1) Partis, Michael Mark if additional names of receiving parties attached Name (line 2) August 29, 2000 Securiton Date Receiving Party 05/1651 935 Mark if additional names of receiving parties attached Name (line 1) United Memories, Inc. If document to be recorded Name (line 1) 4815 List Drive, Suite 109 Apprint or the first Receiving Party only. Address (line 3) Colorado Springs Colorado 80919 Address (line 3) Colorado Springs Enter for the first Receiving Party only. Name Image: State Country <th>8:31.00</th> <th></th> <th>10146266;</th> <th>з т</th> <th></th> <th>651939</th>	8:31.00		10146266;	з т		651939
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REEL: 024185 FRAME: 0308

Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address Area Code and Telephone Number	(719) 448-5909
Name (line 1) William J. Kubida, Esq.	
Address (line 1) Hogan & Hartson LLP	
Address (line 2) 1200 17 th Street, Suite 1500	-
Address (line 3) Denver, CO 80202	
Address (line 4)	
Pages Enter the total number of pages of the attached conveyance # document including any attachments	6
Application Number(s) or Patent Number(s) Mark if addition	al numbers attached
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numb Patent Application Number(s)	ers for the same property). Patent Number(s)
If this document is being filed together with a <u>new</u> Patent Application, enter the date the patent application was signed by the first named executing inventor.	Month Day Year
Patent Cooperation Treaty (PCT)	
Enter PCT application number PCT PCT	РСТ
only if a U.S. Application Number has not been PCT PCT	PCT
assigned A state of Properties Enter the total number of properties involved #	
Foo Amount	
Fee Amount for Properties Listed (37 CFR 3,41):	40.00
Method of payment: Enclosed Deposit Account Deposit Account	
(Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number: #	50-1123
Authorization to charge additional fees:	Yes No
Statement and Signature	
To the best of my knowledge and belief, the foregoing information is tru- copy is a true copy of the original document. Charges to deposit accou- herein.	
William J. Kubida, 29,664	30 NUE 2000
Name of Person Signing Signature	Date

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Name (line 2)					
Receiving Party Enter additional Name (line 1)	(ies) I Receiving Party(ies) Sony Corporation	Mark if additi	onal names of receiving pa	rties attached If document to be re is an assignment an receiving party is no domiciled in the Unit	d th e t
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Address (line 1)	6-7-35 Kita-shinaga	awa		(Designation must be separate document i Assignment)	
Address (line 2)	Shinagawa-ku			, .	
Address (line 3)	Токуо	JAPAN	141-0001		1
	City	State/Country	Zip Code		

ASSIGNMENT

WHEREAS, we, Kim Carver Hardee, having a residence address of 9760 Kit Carson Lane, Colorado Springs, CO 80920 and Michael Parris, having a residence address of 5715 Daltry Lane, Colorado Springs, CO 80906, have made a certain new and useful invention relating to a LOCAL WRITE DRIVER CIRCUIT FOR AN INTEGRATED CIRCUIT DEVICE INCORPORATING EMBEDDED DYNAMIC RANDOM ACCESS MEMORY (DRAM), 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-313 and Client/Matter No. 80450.0042, 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;

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 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 we do

hereby authorize and requ. . the Commissioner of Patents and T...demarks to issue said Letters Patent to ASSIGNEES, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, we do hereby covenant and agree with ASSIGNEES 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 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, we have hereunto set our hands and affixed our seals on the date hereinafter set forth.

Date: 8/29/00

Kim Carver Hardes

STATE OF COLORADO

S**S**.

)) public in and for said county, appeared Kim Carver 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, 2001

Witness my hand and official seal.

EDNA L BLACKBUR

(SEAL)

ra L Blackburn Notary Public

Date:

Michael Parris

STATE OF COLORADO

COUNTY OF EL PASO

On this <u>29th</u> day of <u>August</u> _____, 20<u>00</u> before me, a notary public in and for said county, appeared Michael 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.

SS.

My commission expires May 17, 2001

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Witness my hand and official seal.

EDNA ACKBUR

(SEAL)

. Claibur

Notary Public

CONFIRMATORY ASSIGNMENT OF PATENTS

This Assignment of Patents ("Assignment") is made and entered into on this 26th 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 <u>Attachment A</u> 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

By: 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: TAN. 28, 2010

Address 4815 List Drive, Suite 109 Colorado Springs CO 80919

ATTACHMENT A

<u>Jurisdiction</u>	Title	<u>Appl.</u> Number	Filing Date	<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
ЛР	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
ЛР	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		

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US	Data Inversion Testing Memories			7,631,233	12/08/09
JP	Data Inversion Testing Memories	315,170/07	12/05/07	1,001,200	12/00/09
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		
ЛЪ	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		

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RECORDED: 04/05/2010