

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SanDisk Corporation	04/04/2011
RECEIVING PARTY DATA	
Name:	SanDisk Technologies Inc.
Street Address:	6900 North Dallas Parkway
Internal Address:	Two Legacy Town Center
City:	Plano
State/Country:	TEXAS
Postal Code:	75024
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12499219
CORRESPONDENCE DATA	
Fax Number:	(408)801-9019
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	4088012863
Email:	simona.benjamin@sandisk.com
Correspondent Name:	SanDisk Corporation
Address Line 1:	601 Mccarthy Boulevard
Address Line 2:	Patent Department/Simona Benjamin
Address Line 4:	Milpitas, CALIFORNIA 95035
ATTORNEY DOCKET NUMBER:	SDA-1433-US
NAME OF SUBMITTER:	Simona Benjamin
Total Attachments: 5 source=page 26#page1.tif source=page 26#page2.tif source=page 26#page3.tif source=page 26#page4.tif source=page 26#page5.tif	

**CH \$40.00 12499219**

## ASSIGNMENT

**WHEREAS**, SanDisk Corporation, a Delaware corporation, doing business at 601 McCarthy Boulevard, Milpitas, CA 95035 (hereinafter referred to as **ASSIGNOR**), holds right, title and interest throughout the world in and to the patents and patent applications set forth in the attached Exhibit A, together with all divisions, continuations, or continuations-in-part thereof, and all patents issuing thereon including reissues, renewals, substitutions, re-examinations and extensions thereof, and any and all corresponding foreign patents and patent applications (hereinafter referred to as, collectively, **THE ASSIGNED PATENT RIGHTS**);

**WHEREAS**, SanDisk Technologies Inc., a Texas corporation, doing business at Two Legacy Town Center, 6900 North Dallas Parkway, Plano, Texas 75024, (hereinafter referred to as **ASSIGNEE**), is desirous of acquiring the full and exclusive right, title and interest in **THE ASSIGNED PATENT RIGHTS**;

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, **ASSIGNOR** hereby assigns, transfers and conveys unto the said **ASSIGNEE**, and **ASSIGNEE** accepts, all of **ASSIGNOR**'s right, title and interest throughout the world in and to **THE ASSIGNED PATENT RIGHTS** and to all Letters Patent or applications or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for **THE ASSIGNED PATENT RIGHTS**, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and **ASSIGNOR** hereby authorizes and requests the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for **THE ASSIGNED PATENT RIGHTS** to **ASSIGNEE** in accordance with the terms of this **ASSIGNMENT** but subject to reserved rights including but not limited to those previously retained by, granted to, or owned by, the United States government, educational institutions or both and hereby transfers and conveys all rights of action, power and benefit belonging to or accruing from **THE ASSIGNED PATENT RIGHTS** including the right to undertake proceedings to recover past and future damages and claim all other relief in respect of any acts of infringement thereof whether such acts shall have been committed before or after the date of this assignment.

No other rights, immunities, or licenses, including, without limitation, any rights to any intellectual property owned, controlled or licensable by **ASSIGNOR** are granted or assigned to **ASSIGNEE** under this **ASSIGNMENT**, either expressly or by implication, estoppel, or otherwise, other than the rights expressly recited herein.

**ASSIGNOR** hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would knowingly conflict with this Agreement;

**ASSIGNOR** further covenants that **ASSIGNEE** will, upon its lawful request, reasonably be provided with all pertinent facts and documents relating to **THE ASSIGNED PATENT RIGHTS** and legal equivalents as may be known and reasonably accessible to **ASSIGNOR** and that **ASSIGNOR** will testify as to the same in any administrative contest or litigation related thereto and will promptly execute and deliver to **ASSIGNEE** or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce **THE ASSIGNED PATENT RIGHTS** and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand as of the date indicated below.

SANDISK CORPORATION

Dated: 4<sup>th</sup> April 2011

Judy Bruner  
Name: Judy Bruner  
Title: EVP 2nd CFO

STATE OF California )  
COUNTY OF Santa Clara ) ss.

On this 4<sup>th</sup> day of April, 2011, before me Averil Branwen Watan (Notary Public), the undersigned Notary Public, personally appeared Judy Bruner,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Averil Watan  
Signature of Notary Public

We accept the Assignment

SANDISK TECHNOLOGIES INC.

Dated: 4/4/11

James F. Brelsford  
Name: James F. Brelsford  
Title: President and Secretary

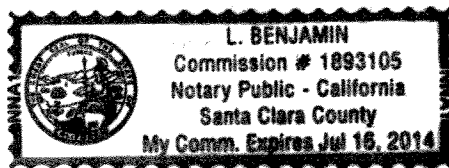
STATE OF California )  
COUNTY OF Santa Clara ) ss.

On this 4 day of April, 2011, before me L. Benjamin, the undersigned Notary Public, personally appeared JAMES F. BRELSFORD

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: L. Benjamin  
Signature of Notary Public

**Exhibit A**

FILE #	INVENTORS	TITLE	COUNTRY	STATUS	SER #	FILING DATE	PAT #	ISSUE DATE
SDA-1427-US	Robert David Selinger	Controller and Method for Detecting a Transmission Error Over a NAND Interface Using Error Detection Code	US	Pending	12539407	11-Aug-09		
SDA-1428-US	Robert David Selinger	Controller and Method for Providing Read Status and Spare Block Management Information in a Flash Memory System	US	Pending	12539379	11-Aug-09		
SDA-1430-US	William Wu, Shai Traister, Jianmin Huang, Neil Hutchinson, Steven T. Sprouse	Pre-Emptive Garbage Collection of Memory Blocks	US	Pending	12828241	30-Jun-10		
SDA-1432-US	Yan Li	Programming Memory with Bit Line Floating to Reduce Channel-to-Floating Gate Coupling	US	Pending	12624584	24-Nov-09		
SDA-1433-US	Steven T. Sprouse, Jianmin Huang, Chris Nga Yee Avila, Yichao Huang, Emilio Yero	Optimized Page Programming Order for Non-Volatile Memory	US	Published	12499219	8-Jul-09		
SDA-1434-US	Yingda Dong, Jeffrey Lutze	Reduced Programming Pulse Width For Enhanced Channel Boosting in Non-Volatile Storage	US	Published	12488967	22-Jun-09		
SDA-1435-US	Alan Welsh Sinclair	Method and System for Concurrent Background and Foreground Operations in a Non-Volatile Memory Array	US	Pending	12632549	7-Dec-09		
SDA-1436-US	Neil Hutchinson, Steven T. Sprouse	Garbage Collection of Memory Blocks using Volatile Memory	US	Pending	12828244	30-Jun-10		
SDA-1437-US	Robert David Selinger, Gary Lin, Chaoyang Wang	Method and Controller for Performing a Sequence of Commands	US	Pending	12650255	30-Dec-09		
SDA-1438-US	Jason Lin	Memory Device and Method for Updating a Security Module	US	Published	12495389	30-Jun-09		
SDA-1439-US	Robert C Chang, Po Yuan, James Xian Jun Liu, Bahman Qawami, Haluk Kent Tanik	FILE SYSTEM AND METHOD OF FILE ACCESS	US	Published	12495450	30-Jun-09		
SDA-1440-US	Philip D. Royall, Kinshuk Rakshit, Kevin Kealy, Fabrice Jogand-Coulomb, Itzhak Pomerantz	Selectively Using Local Non-Volatile Storage in Conjunction with Transmission of Content	US	Pending	12494758	30-Jun-09		
SDA-1442-US	Chris Nga Yee Avila, Jonathan Hsu, Alexander Mak, Jian Chen, Grishma Shailesh Shah	PROGRAM FAILURE HANDLING IN NONVOLATILE MEMORY	US	Published	12485827	16-Jun-09		
SDA-1443-US	Chris Nga Yee Avila, Jonathan Hsu, Alexander Mak, Jian Chen, Grishma Shailesh Shah	DATA RECOVERY IN MULTI-LEVEL CELL NONVOLATILE MEMORY	US	Published	12485846	16-Jun-09		
SDA-1444-US	Jonathan Hsu, Shai Traister	Host stop transmission handling	US	Published	12487063	18-Jun-09		
SDA-1445-US	Steven T. Sprouse, Chris Nga Yee Avila, Jianmin Huang	Method and System for Achieving Die Parallelism Through Block Interleaving	US	Pending	12642181	18-Dec-09		
SDA-1446-US	Khin Htoo, Feng Pan, Byungki Woo, Trung Pham, Yuxin Wang	Charge Pump With Reduced Energy Consumption Through Charge Sharing and Clock Boosting Suitable for High Voltage Word Line in Flash Memories	US	Pending	12509367	24-Jul-09		
SDA-1447-US	James Xian Jun Liu, Po Yuan	SYSTEM AND METHOD OF SELECTING A FILE PATH OF A REMOVABLE STORAGE DEVICE	US	Published	12494233	29-Jun-09		
SDA-1448-US	Jason Lin	Memory Device and Method for Adaptive Protection of Content	US	Published	12431353	28-Apr-09		