

PATENT ASSIGNMENT

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| 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: | 11845903 |
| 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-1180X-US |
| NAME OF SUBMITTER: | Simona Benjamin |
| Total Attachments: 5 source=page 14#page1.tif source=page 14#page2.tif source=page 14#page3.tif source=page 14#page4.tif source=page 14#page5.tif | |

CH \$40.00 11845903

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: 4th April 2011

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

STATE OF California)
COUNTY OF Santa Clara) ss.

On this 4th 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

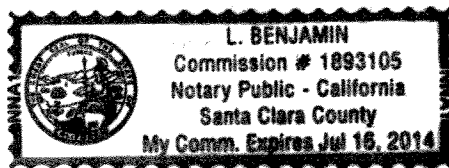
STATE OF California)
COUNTY OF Santa Clara) ss.

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-1178-1Y-US | Gerrit Jan Hemink, Teruhiko Kamei | Systems for Erase Voltage Manipulation in Non-Volatile Memory for Controlled Shifts in Threshold Voltage | US | Issued | 11773927 | 5-Jul-07 | 7522457 | 21-Apr-09 |
| SDA-1179X-US | Paul McAvoy, Fabrice Jogand-Coulomb, Pascal Caillon, Benjamin Vigier, Chieh-Hao (John) Yang | Methods of Auto Starting with Portable Mass Storage Device | US | Issued | 11769087 | 27-Jun-07 | 7861037 | 28-Dec-10 |
| SDA-1179Y-US | Paul McAvoy, Fabrice Jogand-Coulomb, Pascal Caillon, Benjamin Vigier, Chieh-Hao (John) Yang | Auto Start Configuration with Portable Mass Storage Device | US | Issued | 11769099 | 27-Jun-07 | 7917697 | 29-Mar-11 |
| SDA-1180X-US | Prajit Nandi, Sridhar Yadala | Bottom Plate Regulation of Charge Pumps | US | Allowed | 11845903 | 28-Aug-07 | | |
| SDA-1180Y-US | Prajit Nandi, Sridhar Yadala | Bottom Plate Regulation of Charge Pumps | US | Published | 11845939 | 28-Aug-07 | | |
| SDA-1181X-US | Seungoil Lee, Hao Thai Nguyen, Man Mui | Method for Source Bias All Bit Line Sensing in Non-Volatile Storage | US | Issued | 11772002 | 29-Jun-07 | 7471567 | 30-Dec-08 |
| SDA-1181Y-US | Seungoil Lee, Hao Thai Nguyen, Man Mui | Non-Volatile Storage with Source Bias All Bit Line Sensing | US | Issued | 11772009 | 29-Jun-07 | 7545678 | 9-Jun-09 |
| SDA-1182X-US | Masaaki Higashitani | Method for Operating Non-Volatile Storage with Individually Controllable Shield Plates between Storage Elements | US | Issued | 11767647 | 25-Jun-07 | 7636260 | 22-Dec-09 |
| SDA-1182Y-US | Masaaki Higashitani | Non-Volatile Storage with Individually Controllable Shield Plates between Storage Elements | US | Issued | 11767652 | 25-Jun-07 | 7808826 | 5-Oct-10 |
| SDA-1183-1-I-US | Yan Li | Nonvolatile Memory And Method For Compensating During Programming For Perturbing Charges Of Neighboring Cells | US | Pending | 13029787 | 17-Feb-11 | | |
| SDA-1183-1-US | Yan Li | Nonvolatile Memory And Method For Compensating During Programming For Perturbing Charges of Neighboring Cells | US | Issued | 11856625 | 17-Sep-07 | 7894269 | 22-Feb-11 |
| SDA-1184-US | Yan Li | Compensating For Coupling During Programming | US | Unfiled | | | | |
| SDA-1185X-I-US | Masaaki Higashitani | Method for Fabricating Non-Volatile Storage With Individually Controllable Shield Plates Between Storage Elements | US | Published | 12832833 | 8-Jul-10 | | |
| SDA-1185X-US | Masaaki Higashitani | Method for Fabricating Non-Volatile Storage With Individually Controllable Shield Plates Between Storage Elements | US | Issued | 11767661 | 25-Jun-07 | 7781286 | 24-Aug-10 |
| SDA-1186-US | Rajeev Nagabhirava, Dhaval Parikh, Arjun Kapoor | Leveraging Portable System Power (Battery) to Enhance Flash Management and Enable Application Level Feature | US | Published | 11863035 | 27-Sep-07 | | |
| SDA-1187X-US | J. James Tringali, Sergey Anatolievich Gorobets, Shai Traister, Yosief Ataklti | Urgency and Time Window Manipulation to Accomodate Unpredictable Memory Operations | US | Published | 11864740 | 28-Sep-07 | | |
| SDA-1187Y-US | J. James Tringali, Sergey Anatolievich Gorobets, Shai Traister, Yosief Ataklti | Managing Processing Delays in an Isochronous System | US | Published | 11864793 | 28-Sep-07 | | |
| SDA-1188-US | Yan Li | Non-Volatile Memory and Method for Biasing Adjacent Word Line for Verify During Programming | US | Issued | 11856639 | 17-Sep-07 | 7652929 | 26-Jan-10 |
| SDA-1189-US | Yan Li, Yupin Fong, Nima Mokhlesi | Non-Volatile Memory and Method for On-Chip Pseudo-Randomization of Data Within a Page and Between Pages | US | Issued | 11852229 | 7-Sep-07 | 7885112 | 8-Feb-11 |