

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2647211

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JOHN SCARAMUZZO</td> <td>11/04/2013</td> </tr> <tr> <td>BERNARDO RUB</td> <td>12/09/2013</td> </tr> <tr> <td>ROBERT W. ELLIS</td> <td>11/15/2013</td> </tr> <tr> <td>JAMES FITZPATRICK</td> <td>12/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	JOHN SCARAMUZZO	11/04/2013	BERNARDO RUB	12/09/2013	ROBERT W. ELLIS	11/15/2013	JAMES FITZPATRICK	12/09/2013		
Name	Execution Date												
JOHN SCARAMUZZO	11/04/2013												
BERNARDO RUB	12/09/2013												
ROBERT W. ELLIS	11/15/2013												
JAMES FITZPATRICK	12/09/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>SANDISK ENTERPRISE IP LLC</td> </tr> <tr> <td>Street Address:</td> <td>350 NORTH ST. PAUL STREET</td> </tr> <tr> <td>Internal Address:</td> <td>SUITE 2900</td> </tr> <tr> <td>City:</td> <td>DALLAS</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>75201</td> </tr> </table>		Name:	SANDISK ENTERPRISE IP LLC	Street Address:	350 NORTH ST. PAUL STREET	Internal Address:	SUITE 2900	City:	DALLAS	State/Country:	TEXAS	Postal Code:	75201
Name:	SANDISK ENTERPRISE IP LLC												
Street Address:	350 NORTH ST. PAUL STREET												
Internal Address:	SUITE 2900												
City:	DALLAS												
State/Country:	TEXAS												
Postal Code:	75201												
PROPERTY NUMBERS Total: 2													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14105002</td> </tr> <tr> <td>Application Number:</td> <td>61809253</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14105002	Application Number:	61809253						
Property Type	Number												
Application Number:	14105002												
Application Number:	61809253												
CORRESPONDENCE DATA													
Fax Number:	(408)738-0881												
Phone:	408-738-0592												
Email:	efiling@ishimarulaw.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	MIKIO ISHIMARU												
Address Line 1:	ISHIMARU & ASSOCIATES LLP												
Address Line 2:	2055 GATEWAY PLACE, SUITE 700												
Address Line 4:	SAN JOSE, CALIFORNIA 95110												
ATTORNEY DOCKET NUMBER:	PLA-0052-US (63-072)												

CH \$80.00 14105002

NAME OF SUBMITTER:	MIKIO ISHIMARU
Signature:	/Mikio Ishimaru/
Date:	12/12/2013
<b>Total Attachments: 4</b> source=PLA-0052-US_Assignment#page1.tif source=PLA-0052-US_Assignment#page2.tif source=PLA-0052-US_Assignment#page3.tif source=PLA-0052-US_Assignment#page4.tif	

## ASSIGNMENT

WHEREAS, the undersigned (hereinafter termed Assignor(s)) has/have invented certain new and useful improvements in

### DATA MANAGEMENT IN A STORAGE SYSTEM

for which a United States patent application has been executed on or before the date of this assignment.

WHEREAS, SanDisk Enterprise IP LLC, a Texas limited liability Company, having a place of business at 350 North St. Paul Street, Suite 2900, Dallas, Texas, 75201 (hereinafter termed Assignee), is desirous of acquiring the entire right, title and interest in and to said application and said invention and improvements thereon, and in and to Letters Patents thereon when granted in the United States and foreign countries.

NOW, THEREFORE, for good and valuable consideration received by said Assignor(s) from said Assignee(s), the receipt of which is hereby acknowledged by said Assignor(s):

1. Said Assignor(s) does hereby sell, assign, transfer and convey unto said Assignee(s), the entire right, title and interest in and to said application and said invention and in and to any and all improvements on said invention and in and to any and all improvements on said invention heretofore or hereafter made or acquired by said Assignor(s); and in and to any and all Letters Patent on said invention and/or said improvements that may be granted in the United States or any foreign country, including each and every Letters Patent granted on any application which is a division, continuation, substitution, renewal, or continuation-in-part of any said application, and in and to each and every reissue or extension of said Letters Patent.
2. Said Assignor(s) hereby covenants and agrees to cooperate with said Assignee(s) where said Assignee(s) may enjoy to the fullest extent the right, title and interest herein conveyed. Such cooperation shall include (a) prompt execution of all papers (prepared at the expense of Assignee(s)) which are deemed necessary or desirable by Assignee(s) to perfect in it the right, title and interest herein conveyed, (b) prompt execution of all petitions, oaths, specifications or other papers (prepared at the expense of Assignee(s)) which are deemed necessary or desirable by Assignee(s) for prosecuting said application, for filing and prosecuting divisional, continuation, substitution, renewal, continuation-in-part, or additional applications in the United States and/or foreign countries covering said invention and/or said improvements, for filing and prosecuting applications for reissuance of letters patent included herein, or for interference proceedings involving said invention and/or said improvements and (c) prompt assistance and cooperation in the prosecution of interference proceedings involving said invention and/or said improvements and in the adjudication of said Letters Patent, particularly by the disclosure of facts and the production of evidence relating to said invention and/or said improvements, provided the expenses which may be incurred by said Assignor(s) in lending such assistance and cooperation shall be paid by the Assignee(s).
3. The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee(s), its successors, assigns and/or other legal representatives and shall be binding upon said Assignor(s), his/her heirs, legal representatives and assigns.
4. Said Assignor(s) hereby warrants and represents that he/she has not entered into any assignment, contract or understanding in conflict herewith.

5. Said Assignor(s) hereby authorizes and requests the attorney(s) of record in this application to insert the serial number and filing date of this Non Provisional application and that of the Provisional application from which it claims priority in the spaces that follow:

Serial Number: 61/809,253 Filing Date: April 5, 2013

Serial Number: 14/105,002 Filing Date: December 12, 2013

11/4/2013  
Date

  
John Scaramuzzo

\_\_\_\_\_  
Date

\_\_\_\_\_  
Bernardo Rub

\_\_\_\_\_  
Date

\_\_\_\_\_  
Robert W. Ellis

\_\_\_\_\_  
Date

\_\_\_\_\_  
James Fitzpatrick

5. Said Assignor(s) hereby authorizes and requests the attorney(s) of record in this application to insert the serial number and filing date of this Non Provisional application and that of the Provisional application from which it claims priority in the spaces that follow:

Serial Number: 61/809,253 Filing Date: April 5, 2013.

Serial Number: 14/105,002 Filing Date: December 12, 2013

Date

John Scaramuzzo

12/9/13

Date

B. Rub

Bernardo Rub

Date

Robert W. Ellis

12/9/13

Date

[Signature]

James Fitzpatrick

5. Said Assignor(s) hereby authorizes and requests the attorney(s) of record in this application to insert the serial number and filing date of this Non Provisional application and that of the Provisional application from which it claims priority in the spaces that follow:

Serial Number: 61/809,253 Filing Date: April 5, 2013.

Serial Number: 14/105,002 Filing Date: December 12, 2013

\_\_\_\_\_  
Date

\_\_\_\_\_  
John Scaramuzzo

\_\_\_\_\_  
Date

\_\_\_\_\_  
Bernardo Rub

11/15/2013  
Date

  
Robert W. Ellis

\_\_\_\_\_  
Date

\_\_\_\_\_  
James Fitzpatrick