

PATENT ASSIGNMENT COVER SHEET

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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>WENGUANG WANG</td> <td>11/22/2013</td> </tr> <tr> <td>JOHN GARVEY</td> <td>11/22/2013</td> </tr> <tr> <td>DR. RICHARD PAUL SPILLANE</td> <td>11/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	WENGUANG WANG	11/22/2013	JOHN GARVEY	11/22/2013	DR. RICHARD PAUL SPILLANE	11/22/2013
Name	Execution Date								
WENGUANG WANG	11/22/2013								
JOHN GARVEY	11/22/2013								
DR. RICHARD PAUL SPILLANE	11/22/2013								
RECEIVING PARTY DATA									
Name:	Apple Inc.								
Street Address:	1 Infinite Loop								
City:	Cupertino								
State/Country:	CALIFORNIA								
Postal Code:	95014								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14088265</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14088265				
Property Type	Number								
Application Number:	14088265								
CORRESPONDENCE DATA									
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Correspondent Name:	WOMBLE CARLYLE SANDRIDGE & RICE LLP								
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Address Line 2:	ATTN: MICHAEL J. FERRAZANO								
Address Line 4:	CUPERTINO, CALIFORNIA 95014								
ATTORNEY DOCKET NUMBER:	P20676US1/19200US.1								
NAME OF SUBMITTER:	SCOTT A. SCHLACK								
Signature:	/Scott A. Schlack/								

Date:

12/10/2013

Total Attachments: 3

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ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

EFFICIENT REUSE OF SEGMENTS IN NONOVERWRITE STORAGE SYSTEMS


(Atty. Docket No. P20676US1/19200US.1)

- for which I have executed a U.S. patent application on even date herewith.
 which bears U.S. application No. 14/088,265
 which is a U.S. provisional application.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- 1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Signature: 
Typed Name: Wenguang WANG

Date: 11/22/2013

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Typed Name: John GARVEY



Date: 22 Nov 2013

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Signed on the date indicated beside my signature.

Signature:

Typed Name: Dr. Richard Paul Spillane

Date:

11/22/2013