

## PATENT ASSIGNMENT

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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>Won-ik Cho</td> <td>09/10/2012</td> </tr> <tr> <td>Nag-eui Choi</td> <td>09/10/2012</td> </tr> <tr> <td>Seung-ki Kim</td> <td>09/10/2012</td> </tr> <tr> <td>Ho-jin Kang</td> <td>09/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Won-ik Cho	09/10/2012	Nag-eui Choi	09/10/2012	Seung-ki Kim	09/10/2012	Ho-jin Kang	09/10/2012
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Ho-jin Kang	09/10/2012										
RECEIVING PARTY DATA											
Name:	Toshiba Samsung Storage Technology Korea Corporation										
Street Address:	14F, Bldg. No. 102, Digital Empire 2, 486, Sin-Dong, Yeongtong-Gu, Suwon-si, Gyeonggi-do										
City:	Suwon-si										
State/Country:	KOREA, REPUBLIC OF										
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>13610033</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13610033						
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Application Number:	13610033										
CORRESPONDENCE DATA											
Fax Number:	2023153758										
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ATTORNEY DOCKET NUMBER:	024055.0073										
NAME OF SUBMITTER:	Nicholas M. Stabler										
Total Attachments: 2 source=NewApp_0240550073_AssignmentExecuted#page1.tif source=NewApp_0240550073_AssignmentExecuted#page2.tif											

OP \$40.00 13610033

**ASSIGNMENT**

For valuable consideration, we,

<b>Won-ik Cho</b>	102-1301, Sadang Humansia Apt., Sadang-dong, Dongjak-gu, Seoul, Republic of Korea
<b>Nag-eui Choi</b>	109-604, Doosan Donga Apt., Gwonseon-dong, Gwonseon- gu, Suwon-si, Gyeonggi-do, Republic of Korea
<b>Seung-ki Kim</b>	826-804, Daerim Jinheung Apt., Jeongja-dong, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea
<b>Ho-jin Kang</b>	Rm.403, 532-3, Gokbanjeong-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea

hereby assign to:

**TOSHIBA SAMSUNG STORAGE TECHNOLOGY KOREA**  
**CORPORATION**, a Republic of Korea corporation/institution/foundation/institute  
having principal executive office(s) or place of business at: 14F, Bldg. No. 102, Digital  
Empire 2, 486, Sin-Dong, Yeongtong-Gu, Suwon-si, Gyeonggi do, Republic of Korea;  
and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Application Number 13/610,033 filed September 11, 2012 at the U.S. Patent & Trademark Office signed by us, with title **OPTICAL RECORDING DEVICE AND METHOD**, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN TESTIMONY/WITNESS WHEREOF, we, undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.

This 10 day of Sep., 2012

Won-ik Cho  
Signature: **Won-ik Cho**

This 10 day of September, 2012

Nag-eui choi  
Signature: **Nag-eui Choi**

This 10 day of September, 2012

Seung-ki Kim  
Signature: **Seung-ki Kim**

This 10 day of Sep., 2012

Ho-jin Kang  
Signature: **Ho-jin Kang**