

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Joung-sug Ko</td> <td>10/18/2012</td> </tr> <tr> <td>Sang-yun Baek</td> <td>10/18/2012</td> </tr> <tr> <td>Un-jin Choi</td> <td>10/18/2012</td> </tr> <tr> <td>Cheol-woong Ahn</td> <td>10/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Joung-sug Ko	10/18/2012	Sang-yun Baek	10/18/2012	Un-jin Choi	10/18/2012	Cheol-woong Ahn	10/18/2012
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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>13654604</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13654604						
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Application Number:	13654604										
CORRESPONDENCE DATA											
Fax Number:	2023153758										
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Total Attachments: 2 source=NewApp_0240550068_AssignmentExecuted#page1.tif source=NewApp_0240550068_AssignmentExecuted#page2.tif											

OP \$40.00 13654604

## ASSIGNMENT

For valuable consideration, we,

<b>Joung-sug Ko</b>	Ga-102, Yeongdong Villa, 462-34, Sirsa-dong, Gwanak-gu, Seoul, Republic of Korea
<b>Sang-yun Baek</b>	104-603, Shinsegae Sheden, Taepyeong-dong, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
<b>Un-jin Choi</b>	544-904, Simamusiil 5 Danji Apt., Yeongtong 2-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
<b>Cheol-woong Ahn</b>	66-501, Jugong Apt., Gaepo-dong, Gangnam-gu, Seoul, Republic of Korea

hereby assign to:

### **TOSHIBA SAMSUNG STORAGE TECHNOLOGY KOREA**

**CORPORATION**, a Republic of Korea corporation/institution/foundation/institute having principal executive offices) 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 13/654,604 filed October 18, 2012 at the U.S. Patent & Trademark Office signed by us, with title **OPTICAL DISK DRIVE**, 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 18 day of October, 2012

Joung-sug ko

Signature: Joung-sug Ko

This 18 day of October, 2012

Sang-yun Baek

Signature: Sang-yun Baek

This 18 day of October, 2012

Un-jin Choi

Signature: Un-jin Choi

This 18 day of October, 2012

Cheol-woong Ahn

Signature: Cheol-woong Ahn