

## 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>Yasuhiro Kotani</td><td>11/25/2005</td></tr><tr><td>Akira Morita</td><td>11/25/2005</td></tr><tr><td>Hiroki Kitahori</td><td>11/25/2005</td></tr></tbody></table>	Name	Execution Date	Yasuhiro Kotani	11/25/2005	Akira Morita	11/25/2005	Hiroki Kitahori	11/25/2005	
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Yasuhiro Kotani	11/25/2005								
Akira Morita	11/25/2005								
Hiroki Kitahori	11/25/2005								
RECEIVING PARTY DATA									
Name:	Hitachi Global Storage Technologies Netherlands B.V.								
Street Address:	Locatellikade 1, Parnassustoren								
City:	1076 AZ Amsterdam								
State/Country:	NETHERLANDS								
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>11317510</td></tr></tbody></table>	Property Type	Number	Application Number:	11317510					
Property Type	Number								
Application Number:	11317510								
CORRESPONDENCE DATA									
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Total Attachments: 1 source=Assignment 16869Q-170800US#page1.tif									

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PATENT  
REEL: 017433 FRAME: 0039

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Yasuhiro Kotani of 1943-2-203 Shimo-tsuruma, Yamato-shi, Kanagawa, 242-0001 Japan; Akira Morita of 2-8-10-404 Tatsunodai, Zama-shi, Kanagawa, 228-0023 Japan; and Hiroki Kitahori of 5430-16 Ohba, Fujisawa-shi, Kanagawa, 251-0861 Japan, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **MAGNETIC DISK DRIVE WITH EFFICIENT LAYOUT OF CIRCUIT ELEMENTS**

Date(s) of execution of Declaration: November 25, 2005

Filing Date: December 22, 2006

Application No.: 11/317,510 ; and

WHEREAS, Hitachi Global Storage Technologies Netherlands B.V. of Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 2005/Nov/25

Yasuhiro Kotani  
Yasuhiro Kotani

Dated: 2005/NOV/25

森田 明  
Akira Morita

Dated: 2005/NOV/25

Hiroki Kitahori  
Hiroki Kitahori

CONTINUED 11