PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Zvonimir Z. Bandic	03/01/2012	
Cyril Guyot	03/01/2012	
Tomohiro Harayama	02/29/2012	
Hitoshi Kamei	02/28/2012	
Takaki Nakamura	02/28/2012	
Timothy Tsai	03/01/2012	

RECEIVING PARTY DATA

Name:	Hitachi Global Storage Technologies Netherlands B.V.	
Street Address:	Locatellikade 1, Parnassustoren	
City:	1076 AZ Amsterdam, Netherlands	
State/Country:	NETHERLANDS	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13410089

CORRESPONDENCE DATA

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Mail.

Correspondent Name: Joan Pennington
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ATTORNEY DOCKET NUMBER:	HSJ920120001US1
NAME OF SUBMITTER:	Joan Pennington

Total Attachments: 2

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PATENT

REEL: 027792 FRAME: 0731

13410089

ICH \$40.00

ASSIGNMENT FOR PATENT APPLICATION

Whereas, I/we the undersigned inventor(s) have invented certain improvements as set forth in the patent application entitled:

IMPLEMENTING LARGE BLOCK RANDOM WRITE HOT SPARE SSD FOR SMR RAID

Whereas, Hitachi Global Storage Technologies Netherlands B.V., having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereinafter referred to as "HITACHI"), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby sell, assign, and transfer to HITACHI, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HITACHI, its successors and assigns; and we hereby agree that HITACHI may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HITACHI.

Signed on the date(s) indicated beside my (our) signature(s).

1)	Signature: Typed Name: Zvonimir Z. Bandic	Date: <u>03/01/2012</u>
	Typed Name: Zvonimir Z. Bandic **	
2)	Signature: Typed Name: Cyrff Guyot	Date: <u>03/01/2012</u>
3)	Signature: Javota Hyra	Date: <u> </u>
	Typed Name: Tomohiro Harayama	
4)	Signature:	Date:
	Typed Name: Hitoshi Kamei	
5)	Signature:	Date:
	Typed Name: Takaki Nakamura	
6)	Signature:	Date:
	Typed Name: Timothy Tsai	

Docket No.: HSJ920120001US1 Page 1 of 1

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby sell, assign, and transfer to HITACHI, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HITACHI, its successors and assigns; and we hereby agree that HITACHI may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HITACHI.

Signed on the date(s) indicated beside my (our) signature(s).

RECORDED: 03/01/2012

1)	Signature:	Date:	
	Typed Name: Zvonimir Z. Bandic		
2)	Signature:	Date:	
	Typed Name: Cyril Guyot		
3)	Signature:	Date:	
	Typed Name: Tomohiro Harayama		
4)	Signature: Hijoshi Kowei	Date: Feb. 28,	2012
	Typed Name: Hitoshi Kamei		
5) Si	Signature: Tahahi Nahamura Typed Name: Takaki Nakamura	Date:	2012
	Typed Name: Takaki Nakamura		
6)	Signature:	Date:	
	Typed Name: Timothy Tsai		

PATENT REEL: 027792 FRAME: 0733