PATENTS UNLI

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

/ER SHEET

To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof. 1. Conveying parties: Names of conveying parties: **Execution Dates:** James Lee Hafner (09/28/2004) Jeffrey R. Hartline (09/29/2004) Tapas Kanungo (09/28/2004) 2. Name and address of receiving party: International Business Machines Corporation **New Orchard Road** Armonk, NY 10504 3. Nature of conveyance: Assignment 4. Application number: 10/ Docket No ARC9 200 40 0 13 US 1 If this Assignment is being filed together with a new application, enter the execution date of the application (date Declaration signed by first named inventor): 09/28/2004 5. Name and address of party to whom correspondence concerning Assignment should be mailed: Samuel A. Kassatly 20690 View Oaks Way San Jose, CA 95120 Tel: (408) 323-5111 Fax: (408) 521-0111 6. Total number of applications involved: $\underline{1}$ 7. Total fee (37 CFR 3.41) = \$40.008. Charge fee to Deposit Account No. 09-0441 DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Samuel A. Kassatly 09/30/2004 Signature of Attorney **Attorney Name** Date 10/08/2004 NGETACHE 00000116 090441 01 FC:8021 40.00 DA

> PATENT REEL: 015866 FRAME: 0401

ASSIGNMENT

eas, we,	
	ananananananananananananananananananan
Name:	James Lee Hafner
City/State of:	San Jose, CA
County of:	Santa Clara
Name:	Jeffrey R. Hartline
City/State of:	Ithaca, NY
County of:	Tompkins
Name:	Tapas Kanungo
City/State of:	San Jose, CA
County of:	Santa Clara
	Name: City/State of: County of: Name: City/State of: County of: Name: City/State of: County of:

have invented certain improvements in:

"SYSTEM AND METHOD FOR TOLERATING MULTIPLE STORAGE DEVICE FAILURES IN A STORAGE SYSTEM WITH CONSTRAINED PARITY IN-DEGREE"

and executed a Declaration and Power of Attorney for a United States patent application therefor on:

(1)	Date:	9/	280	04
(2)	Date:			
(3)	Date:	<u> </u>	28	04

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), 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 therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, 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 filling of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

PATENT REEL: 015866 FRAME: 0402

Page 2 of 2

Docket No. ARC920040013US1

ASSIGNMENT

Execution by Inventors:

(1)	Name:	James Lee Hafner	City/State	San Jose, CA
(2)	Signature:	Jeffrey R. Hartline	Date: City/State	9/28/04
	Signature:		Date:	
(3)	Name:	Tapas Kanungo	City/State	San Jose, CA
	Ciamat	Mannes.	7	alaplau

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	eas, we,	**	·	
(1)	Name: City/State of: County of:	James Lee Hafner San Jose, CA Santa Ciara		
(2)	Name: City/State of: County of:	Jeffrey R. Hartline Ithaca, NY Tompkins		
(3)	Name: City/State of: County of:	Tapas Kanungo San Jose, CA Santa Clara		
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	"SYSTEM ANI IN A	improvements in: D METHOD FOR TOLERA STORAGE SYSTEM WITH ration and Power of Attorn	H CONSTRAINED PARITY	IN-DEGREE"
(1)	Date:			
(2)	Date:	.29.2004		
(3)	Date:			·
named interest and all Comm	having a place of tire right, title ar is to be obtained Now therefore I, hereby sell, a st in the said app I rights of priority hissioner of Pate	nd interest in the said appli if therefor; e, for a valuable considerate ssign, and transfer to IBM, plication and invention ther by resulting from the filing o ents to issue any Letters Pa	w York 10504 (hereinafter cation and invention, and to too, receipt whereof is here its successors and assign rein disclosed for the Unite f said United States applicatent granted upon the invented.	called IBM), desires to acquire o any United States and foreign eby acknowledged, I, the above s, the entire right, title and d States and foreign countries, ation, and I request the
		on and I will execute all pa hen called upon to do so b	• •	ion with the United States and
Execu	tion by Inventor	<u>s:</u>		
(1)	Name:	James Lee Hafner	City/State	San Jose, CA
(2)	Signature: Name:	Jeffrey R. Hartline	Date: City/State	Ithaca, NY

PATENT REEL: 015866 FRAME: 0404

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Docket No. ARC920040013US1

ASSIGNMENT

Date:

(3) Name:

City/State

San Jose, CA

Signature:

Date:

PATENT REEL: 015866 FRAME: 0405

RECORDED: 09/30/2004