PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Matthew J. Carey | 07/18/2007 |
| Jeffrey R. Childress | 07/18/2007 |
| Stefan Maat | 07/18/2007 |

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

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11781576 |

CORRESPONDENCE DATA

Fax Number: (408)717-9155

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: tom.berthold@comcast.net

Correspondent Name: HITACHI GLOBAL STORAGE TECHNOLOGIES

Address Line 1: 5600 COTTLE ROAD

Address Line 4: San Jose, CALIFORNIA 95193

| ATTORNEY DOCKET NUMBER: | HSJ920070061US1 |
|-------------------------|-----------------|
| | |

NAME OF SUBMITTER: Thomas R. Berthold

Total Attachments: 1

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PATENT REEL: 019600 FRAME: 0552

ASSIGNMENT

| | /// |
|---|-----|
| Whereas, I/we, as below named inventor(s), have invented certain improvements in: | |

CURRENT-PERPENDICULAR-TO-THE-PLANE (CPP) MAGNETORESISTIVE SENSOR WITH CoFeGe FERROMAGNETIC LAYERS

| and executed a Declaration and Power of Attorney for a United States patent application therefor on: | | | |
|--|--|--|--|
| 1. 7/18/01 | L 2. 7/18/07 3. 7/18/07 | | |
| Whereas, HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V., having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereafter called 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 therefor; Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, 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. | | | |
| 1. Full Name | Matthew J. Carey | | |
| Inventor's Signature | date 7/18/37 | | |
| Residence Address | 1052 Timber Crest Drive, San Jose, CA 95120 | | |
| Residence County | Santa Clara | | |
| Post Office Address | SAME | | |
| Citizenship | US | | |
| | | | |
| 2. Full Name | Jeffrey R. Childress | | |
| Inventor's Signature Residence Address Residence County Post Office Address Citizenship | 1039 Nightfall Court, San Jose, CA 95120 Santa Clara SAME US | | |
| Citizenship | 08 | | |
| 3. Full Name | Stefan Maat | | |
| Inventor's Signature Residence Address | 318 El Portal Way, San Jose, CA 95119 date 7/18/07 | | |
| Residence County | Santa Clara | | |
| Post Office Address | SAME | | |
| Citizenship | DE | | |
| | | | |

PATENT RECORDED: 07/23/2007 REEL: 019600 FRAME: 0553