

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAMES MAC FREITAG | 05/04/2020 |
| ZHENG GAO | 05/05/2020 |
| RECEIVING PARTY DATA | |
| Name: | WESTERN DIGITAL TECHNOLOGIES, INC. |
| Street Address: | 5601 GREAT OAKS PARKWAY |
| City: | SAN JOSE |
| State/Country: | CALIFORNIA |
| Postal Code: | 95119 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16867380 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)623-4846 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| Email: | psdocketing@pattersonsheridan.com, hwong@pattersonsheridan.com |
| Correspondent Name: | PATTERSON + SHERIDAN, LLP |
| Address Line 1: | 24 GREENWAY PLAZA, SUITE 1600 |
| Address Line 4: | HOUSTON, TEXAS 77046 |
| ATTORNEY DOCKET NUMBER: | WESD/0421US (WDA-4858-US) |
| NAME OF SUBMITTER: | STEVEN H. VERSTEEG |
| SIGNATURE: | /STEVEN H. VERSTEEG/ |
| DATE SIGNED: | 05/07/2020 |
| Total Attachments: 2 | |
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| source=WDA-4858-US - Assignment#page2.tif | |

ASSIGNMENT FOR PATENT APPLICATION


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

METHODS AND APPARATUS OF HIGH MOMENT FREE LAYERS FOR MAGNETIC TUNNEL JUNCTIONS

Whereas, **Western Digital Technologies, Inc.**, having a place of business at, 5601 Great Oaks Parkway, San Jose, California 95119, (hereinafter referred to as "WDT"), 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 WDT, 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 WDT, its successors and assigns; and we hereby agree that WDT 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 WDT.

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

- 1) Signature:  Date: 5/4/2020
Typed Name: James Mac FRETAG
- 2) Signature: _____ Date: _____
Typed Name: Zheng GAO
- 3) Signature: _____ Date: _____
Typed Name: _____
- 4) Signature: _____ Date: _____
Typed Name: _____
- 5) Signature: _____ Date: _____
Typed Name: _____

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

- 1) Signature: _____ Date: _____
Typed Name: James Mac FREITAG
- 2) Signature:  _____ Date: 5/5/2020
Typed Name: Zheng GAO
- 3) Signature: _____ Date: _____
Typed Name: _____
- 4) Signature: _____ Date: _____
Typed Name: _____
- 5) Signature: _____ Date: _____
Typed Name: _____