PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

c Version v1.1 EPAS ID: PAT5377579

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| WENTAO YAN | 02/14/2019 |
| NEIL DAVID KNUTSON | 02/14/2019 |

RECEIVING PARTY DATA

| Name: | WESTERN DIGITAL TECHNOLOGIES, INC. | |
|-----------------|------------------------------------|--|
| Street Address: | 5601 Great Oaks Parkway | |
| City: | SAN JOSE, CALIFORNIA | |
| State/Country: | UNITED STATES | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16276734 |

CORRESPONDENCE DATA

Fax Number: (408)717-9883

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.

Email: tom.berthold@comcast.net

Correspondent Name: WESTERN DIGITAL TECHNOLOGIES, INC.

Address Line 1: 5601 GREAT OAKS PARKWAY
Address Line 4: SAN JOSE, CALIFORNIA 95119

| ATTORNEY DOCKET NUMBER: | WDA-4211-US |
|-------------------------|----------------------|
| NAME OF SUBMITTER: | THOMAS R. BERTHOLD |
| SIGNATURE: | /Thomas R. Berthold/ |
| DATE SIGNED: | 02/15/2019 |

Total Attachments: 2

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PATENT 505330798 REEL: 048342 FRAME: 0060

ASSIGNMENT FOR PATENT APPLICATION

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

HEAT-ASSISTED MAGNETIC RECORDING (HAMR) READ/WRITE HEAD WITH REVERSED READ HEAD AND WRITE HEAD

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: Typed Narme: Wentao Yan | Date: 2-14-2019 |
|----|---|-----------------|
| 2) | Signature: Typed Name: Neil David Knutson | Date: |
| 3) | Signature: Typed Name: | Date: |
| 4) | Signature: Typed Name: | Date: |
| 5) | Signature:Typed Name: | Date: |
| 6) | Signature:Typed Name: | Date: |
| 7) | Signature: | Date: |

WDT Docket Number WDA-4211-US

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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 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: Typed Name: Wentar Yen | Date: | |
|----|---|--------|----------|
| 2) | Signature: Typed Name: Neil David Knutson | Date:2 | /14/2014 |
| 3) | Signature: Typed Name: | Date: | |
| 4) | Signature: Typed Name: | Date: | |
| 5) | Signature: Typed Name: | Date: | |
| 6) | Signature: Typed Name: | Date: | |
| 7) | Signature: Typed Name: | Date: | |

WDT Docket Number WDA-4211-US

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PATENT REEL: 048342 FRAME: 0062