

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT P. RYAN	06/26/2008
BRETT A. HENNE	06/26/2008
STEVEN NEMSHICK	06/26/2008

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL TECHNOLOGIES, INC.
Street Address:	20511 LAKE FOREST DRIVE
City:	LAKE FOREST
State/Country:	CALIFORNIA
Postal Code:	92630

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12146678

CORRESPONDENCE DATA

Fax Number: (949)672-6604

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

Phone: 949-672-7871

Email: renee.quick@wdc.com

Correspondent Name: WESTERN DIGITAL

Address Line 1: ATTN: INTELLECTUAL PROPERTY DEPT.

Address Line 2: 20511 LAKE FOREST DRIVE

Address Line 4: LAKE FOREST, CALIFORNIA 92630

ATTORNEY DOCKET NUMBER:

T3549

NAME OF SUBMITTER:

Renee M. Quick

Total Attachments: 4

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PATENT

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ASSIGNMENT

Whereas, we, **Robert P. Ryan**, a citizen of the **United States of America**, residing at **Mission Viejo, California**; **Brett A. Henne** a citizen of the **United States of America**, residing at **Lake Forest, California**; and **Steven Nemshick**, a citizen of the **United States of America**, residing at **Santa Ana, California**, have invented certain new and useful improvements in **REDUCED ACOUSTIC NOISE DURING SPIN-UP BY DRIVING A SPINDLE MOTOR OPEN LOOP USING SINUSOIDAL SIGNALS** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, **Western Digital Technologies, Inc.** (hereafter "Assignee"), a Delaware Corporation, desires to acquire the entire right, title, and interest in and to the Improvements and the Application.

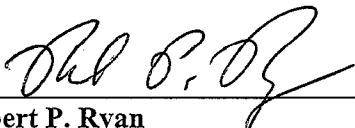
Now, therefore, that for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the Assignee, its successors, legal representatives and assignees, the entire right, title, and interest throughout the world in, to and under the Improvements, and the Application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereof and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for the Improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We hereby covenant and agree that we will communicate to the Assignee, its successors, legal representatives and assigns, any facts known to me respecting the Improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and aid the Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Improvements in all countries.

ASSIGNMENT

PATENT
Atty. Docket No.: T3549

Title of Invention: **REDUCED ACOUSTIC NOISE DURING SPIN-UP BY DRIVING A SPINDLE MOTOR OPEN LOOP USING SINUSOIDAL SIGNALS**


Robert P. Ryan

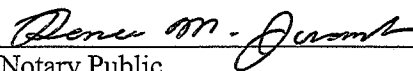
6/26/08
Date

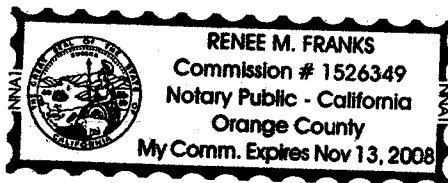
State of California)
) ss.
County of Orange)

On June 26, 2008, before me, Renee M. Franks, Notary Public, personally appeared **Robert P. Ryan** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.


Notary Public



ASSIGNMENT

PATENT
Atty. Docket No.: T3549

Title of Invention: **REDUCED ACOUSTIC NOISE DURING SPIN-UP BY DRIVING A SPINDLE MOTOR OPEN LOOP USING SINUSOIDAL SIGNALS**

Brett A. Henne
Brett A. Henne

June 26, 2008
Date

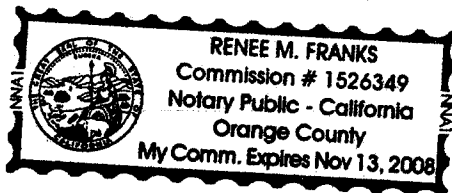
State of California)
) ss.
County of Orange)

On June 26, 2008, before me, Renee M. Franks, Notary Public, personally appeared **Brett A. Henne** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

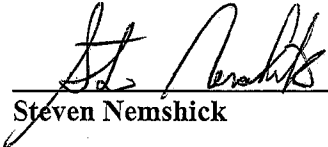
Renee M. Franks
Notary Public



ASSIGNMENT

PATENT
Atty. Docket No.: T3549

Title of Invention: **REDUCED ACOUSTIC NOISE DURING SPIN-UP BY DRIVING A SPINDLE MOTOR OPEN LOOP USING SINUSOIDAL SIGNALS**



Steven Nemshick

6/26/2008

Date

State of California)
) ss.
County of Orange)

On June 26, 2008, before me, Renee M. Franks, Notary Public, personally appeared Steven Nemshick who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Notary Public

