

11-14-2002

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(Rev. 03/01)

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U.S. DEPARTMENT OF COMMERCE
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OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

ROBERT P. RYAN
RAFFI CODILIAN

11-6-02

2. Name and address of receiving party(ies)

Name: WESTERN DIGITAL TECHNOLOGIES, INC.

Internal Address:

Street Address: 20511 LAKE FOREST DRIVE

City: LAKE FOREST State: CA Zip: 92630

OFFICE OF PUBLIC RECORDS
NOV - 6 AM 9:32
FINANCE SECTION

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date:

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

10/232,860

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: MILAD G. SHARA, REG. 39,367

Internal Address:

WESTERN DIGITAL TECHNOLOGIES, INC.

INTELLECTUAL PROPERTY DEPT.- C2

Street Address: 20511 LAKE FOREST DRIVE

City: LAKE FOREST State: CA Zip: 92630

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

23-1209

(Attach duplicate copy of this page if paying by deposit account)

11/13/2002 DBYRNE 00000227 231209 10232860

DO NOT USE THIS SPACE

01 FC:8021 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.

MILAD G. SHARA, REG. 39,367

Name of Person Signing

Signature

10-30-02

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 013471 FRAME: 0237

ASSIGNMENT

Whereas, I, RAFFI CODILIAN, a United States citizen, residing at Irvine, California, have invented certain new and useful improvements in PRODUCTION LINE SPINDLE CONTROL CIRCUIT EMPLOYING A SINUSOIDAL DRIVER WITH BACK EMF CONTROL (hereafter "Improvements") for which I have executed an application for a United States Patent filed 08/30/2002, Application No. 10/232,860 (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, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.

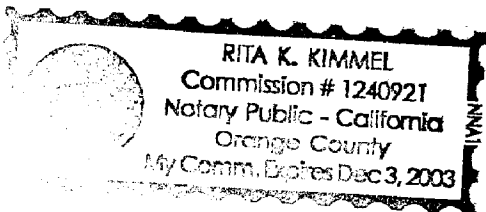
Raffi Codilian
RAFFI CODILIAN
10/30/2002
Date

State of CALIFORNIA)
) ss.
County of ORANGE)

On OCTOBER 30, 2002, before me, RITA K. KIMMEL, Notary Public, personally appeared RAFFI CODILIAN and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.

Rita K. Kimmel
Notary Public



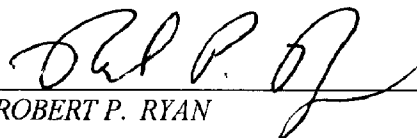
ASSIGNMENT

Whereas, I, ROBERT P. RYAN, a United States citizen, residing at Mission Viejo, California, have invented certain new and useful improvements in PRODUCTION LINE SPINDLE CONTROL CIRCUIT EMPLOYING A SINUSOIDAL DRIVER WITH BACK EMF CONTROL (hereafter "Improvements") for which I have executed an application for a United States Patent filed 08/30/2002, Application No. 10/232,860 (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, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.

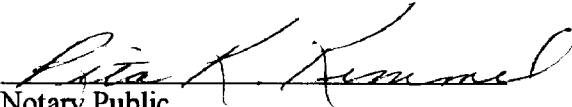

ROBERT P. RYAN
10 30 2002
Date

State of CALIFORNIA)
) ss.
County of ORANGE)

On October 30, 2002, before me, Rita K. Kimmel, Notary Public, personally appeared ROBERT P. RYAN and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.




Notary Public