FORM PTO-1619/ Expires 06/30/99 OMB 0651-0027

05-07-2001



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U.S. Department of Commerce Patent and Trademark Office **PATENT**

PATENTS ONLY RECORDATION FORM COVER SHEET R35A0836						
TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(les).						
Submission Type Conveyance Type						
New Assignment Security Agreement						
Resubmission (Non-Recordation) Document ID# License Change of Name						
Correction of PTO Error Reel #						
Corrective Document (For Use ONLY by U.S. Government Agencies) Reel # Frame # Departmental File Secret File						
Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Month Day Year						
Name (line 1) GRANT S. CHRISTIANSEN 04/03/2001						
Name (line 2) Execution Date						
Second Party Month Day Year						
Name (line 2)						
Receiving Party Mark If additional names of receiving parties attached						
Name (line 1) WESTERN DIGITAL CORPORATION If document to be recorded is an assignment and the						
Name (line 2) receiving party is not domiciled in the United States, an appointment						
Address (line 1) 20511 Lake Forest Drive of a domestic representative is attached. (Designation must be a						
Address (line 2) separate document from Assignment.)						
Address (line 3) Lake Forest California 92630-7741 City State/Country Zip Code						
Domestic Representative Name and Address Enter for the first Receiving Party only.						
Name						
Address (line 1)						
Address (line 2)						
Address (line 3)						
Address (line 4)						
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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington A.T. 2017

REEL: 011753 FRAME: 0944

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027		Page 2		U.S. Department of Commerce Patent and Trademark Office PATENT	
Correspond	ent Name and Address	Area Code and Telephone Nun	nber	949-672-781	14
Name	WESTERN DIGITAL TEC	CHNOLOGIES, INC.			
Address (line 1)	Intellectual Property Dep	artment - LOC C2			
Address (line 2)	20511 Lake Forest Drive				
Address (line 3)					
Address (line 4)					
Pages	Enter the total number of pagincluding any attachments.	ges of the attached conveyance o	document	#	2
Application	Number(s) or Patent Num	iber(s)	Mark if addition	al numbers attac	had
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	ent Application Number(s)		Patent Numl		
09/797,446					
			<u>. </u>		
If this document i signed by the firs	s being filed together with a <u>new</u> Pater st named executing inventor.	nt Application, enter the date the patent a	oplication was	Month Da	ay Year
Patent Coop	peration Treaty (PCT)				
Ente	er PCT application number	PCT PCT		PCT	
	<u>rif</u> a U.S. Application Number not been assigned.	PCT PCT		PCT	
Number of F	Properties	al number of properties involved	. #	1	
Fee Amount	Fee Amount f	or Properties Listed (37 CFR 3.4	l1): \$	40.00	
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· -	payment by deposit account or if addit	tional fees can be charged to the account. eposit Account Number:	# <u>23-</u>	1209	
	A	uthorization to charge additional fee	es: Yes	✓ No	

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. Charges to deposit account are authorized, as indicated herein.

Milad G. Shara, Esq. Reg. 39,367

Name of Person Signing

4-23-01 Signature Signature

Yes 🗸

No

ASSIGNMENT

Whereas, I, Grant S. Christiansen, a United States citizen, residing at Rochester, Minnesota, have invented certain new and useful improvements in DISK DRIVE FOR DETECTING A POLARITY ERROR OF A MAGNETORESISTIVE HEAD BY DETECTING A SYNC MARK (hereafter "Improvements") for which I have executed an application for a United States Patent filed on February 28, 2001, Application No. 09/797,446 (hereafter "Application"); and

Whereas, Western Digital Corporation (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 rights 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.

Grant S. Christiansen

Y 210)

Date

State of MN)
County of Olmsted)ss.

On April 3.01, before me, Tamera Lordary SNotary Public, personally appeared Grant S. Christiansen 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 Signature

TAMERA L. KORDARIS

Notary Public

Minnesota

My Commission Expires Jan. 31, 2005

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PATENT REEL: 011753 FRAME: 0946

ASSIGNMENT

Whereas, I, Mark D. Hagen, a United States citizen, residing at Rochester, Minnesota, have invented certain new and useful improvements in DISK DRIVE FOR DETECTING A POLARITY ERROR OF A MAGNETORESISTIVE HEAD BY DETECTING A SYNC MARK (hereafter "Improvements") for which I have executed an application for a United States Patent filed on February 28, 2001, Application No. 09/797,446 (hereafter "Application"); and

Whereas, Western Digital Corporation (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 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.

Mach D. Hor 2 Apr 2001 Mark. D. Hagen Date

State of Minnesota)

County of Olmsted)

On April 2, 2001, before me, Mark W. Gullickson, Notary Public, personally appeared Mark D. Hagen 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 Signature

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PATENT REEL: 011753 FRAME: 0947