PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4987667

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SCOTT E. RYUN	05/03/2018
BRIAN R. POLLOCK	05/02/2018
RYAN TODD LYLE	05/30/2018
RYAN THOMAS HERBISON	05/04/2018
RICHARD ARTHUR HERR	05/16/2018
PAUL W. BURNETT	05/14/2018

RECEIVING PARTY DATA

Name:	SEAGATE TECHNOLOGY LLC	
Street Address:	10200 SOUTH DE ANZA BLVD.	
City:	CUPERTINO	
State/Country:	CALIFORNIA	
Postal Code:	95014	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15971158

CORRESPONDENCE DATA

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PAIENI		
	This document serves as an Oath/Declaration (37 CFR 1.63).	
DATE SIGNED:	06/01/2018	
SIGNATURE:	/Solange O'Donnell/	
NAME OF SUBMITTER:	SOLANGE O'DONNELL	
ATTORNEY DOCKET NUMBER:	STL 072841.00	

REEL: 045962 FRAME: 0127 504940921

Total Attachments: 7 source=2018-06-01_Executed-Assignment-Declaration_072841#page1.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page2.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page3.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page4.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page5.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page6.tif source=2018-06-01_Executed-Assignment-Declaration_072841#page7.tif

PATENT REEL: 045962 FRAME: 0128

COMBINED ASSIGNMENT-DECLARATION

Seagate Docket No.: 072841

Mir	, Ryan Thomas Herbison Minneapolis, MN, Richard Arthur Herr of Eden Prairie, MN and Paul W. Burnett of neapolis, MN are the inventor(s) of an invention entitled: NARROW BAND DWELL MONITORING that is the ject matter of: (check all that apply)
П	a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office
	by Application No filed on;
X	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by
	Application No. 15/971,158 filed on May 04, 2018 and/or executed on even date herewith: and
	an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is
	identifiable in the United States Receiving Office by Application No filed on
	; and/or executed on even date herewith:

WHEREAS, Scott E. Ryun of Victoria, MN, Brian R. Pollock of Eden Prairie, MN, Ryan Todd Lyle of Prior Lake,

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 10200 S. De Anza Blvd, Cupertino, CA 95014 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

PATENT REEL: 045962 FRAME: 0129

Rev: 10/18/2012

Scott E. Ryun	<u> </u>	
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Brian R. Pollock	Date	
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Richard Arthur I	den	
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RECORDED: 06/01/2018