504524974 08/29/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4571680

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
JEON SEOKHUN			08/25/2016	
OH SUNGCHUL			08/25/2016	
JUNG PIL-WOO			08/25/2016	
JEONG SEUNGYOUL			08/25/2016	
RECEIVING PARTY DA	TA			
Name:	SEAGATE TECHNOLOGY LLC			
Street Address:	10200 S. DE ANZA BLVD			
City:	CUPERTINO			
State/Country:	CALIFORNIA			
Postal Code:	95014			
Property Type 1		Nie zusche wie		
	1	Number		
Property Type Application Number:	1	5250617		
Application Number: CORRESPONDENCE D Fax Number:	ATA	612)334-3312		
Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	DATA (1 De sent to	5250617 612)334-3312 the e-mail address first; if that is uns		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b)ATA (e sent to provided;	612)334-3312		
Application Number: CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email:	DATA (pe sent to provided; f	5250617 612)334-3312 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 512-334-3222 mccarthy@wck.com		
Application Number: CORRESPONDENCE E Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name:	DATA (e sent to provided; 6 r J	5250617 612)334-3312 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 512-334-3222 mccarthy@wck.com JUDSON K. CHAMPLIN		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1:	DATA (pe sent to provided; f f J g	5250617 612)334-3312 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 512-334-3222 mccarthy@wck.com JUDSON K. CHAMPLIN 000 SECOND AVENUE SOUTH		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name:	DATA (e sent to provided; 6 r J g S	5250617 612)334-3312 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 512-334-3222 mccarthy@wck.com JUDSON K. CHAMPLIN		
Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	DATA (e sent to provided; 6 r J g S S	5250617 612)334-3312 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 512-334-3222 mccarthy@wck.com JUDSON K. CHAMPLIN 000 SECOND AVENUE SOUTH SUITE 1400		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N	DATA (e sent to provided; 6 r J g S S	5250617 612)334-3312 the e-mail address first; if that is uns if that is unsuccessful, it will be sen 512-334-3222 mccarthy@wck.com UDSON K. CHAMPLIN 000 SECOND AVENUE SOUTH SUITE 1400 MINNEAPOLIS, MINNESOTA 55402		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUMATE OF SUBMITTER:	DATA (e sent to provided; 6 r J g S S	612)334-3312 the e-mail address first; if that is unservice of the service of th		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	DATA (e sent to provided; 6 r J g S S	612)334-3312 the e-mail address first; if that is unservice of the service of th		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	DATA (e sent to provided; 6 r J g S S	612)334-3312 the e-mail address first; if that is unservice of the service of th		
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUME NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:	DATA (e sent to provided; 6 r J g S S JMBER:	612)334-3312 the e-mail address first; if that is unservice of the service of th		

Seagate Docket No. : 072389

WHEREAS, Jeon SEOKHUN of Kyunggi-do, KOREA; Oh SUNGCHUL of Gyeonggi-do, KOREA; Jung PIL-WOO of Kyunggi-do, KOREA; and Jeong SEUNGYOUL of Gyeonggi-do, KOREA is/are the inventor(s) of an invention entitled <u>PATTERNED BIT IN ERROR MEASUREMENT APPARATUS AND METHOD</u> that is the subject matter of: (check all that apply)

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 line 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-inpart 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.

1.

Rev: 10/18/2012

Jeon SEOKHUN (Inventor)

Date

Oh SUNGCHUL (Inventor)

20 Date

Jung PIL-WOO (Inventor) Date

H. K. M. Joong SEUNGYOUL (Inventor) . 2.8 Date

U.S. Assignment - Seagate Technology U.C - Confidential

-2-

Rev: 10/13/2012

PATENT REEL: 043439 FRAME: 0763

RECORDED: 08/29/2017