PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7222283

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUHEI TANAKAMARU	07/21/2020
RYAN JAMES GOSS	07/21/2020
DANA LYNN SIMONSON	07/27/2020
ERICH FRANZ HARATSCH	07/30/2020

RECEIVING PARTY DATA

Name:	SEAGATE TECHNOLOGY LLC	
Street Address:	47488 KATO ROAD	
City:	FREMONT	
State/Country:	CALIFORNIA	
Postal Code:	94538	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16936348

CORRESPONDENCE DATA

Fax Number: (720)204-5669

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7202045666

Email: hiplaw@blackhillsip.com,docket@hpdlaw.com

Correspondent Name: HOLZER PATEL DRENNAN

Address Line 1: 216 16TH STREET

Address Line 2: SUITE 1350

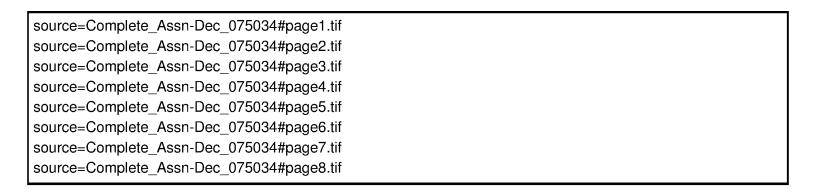
Address Line 4: DENVER, COLORADO 80202

ATTORNEY DOCKET NUMBER:	STL 075034.00
NAME OF SUBMITTER:	SUSAN DINARDO
SIGNATURE:	/Susan DiNardo/
DATE SIGNED:	03/14/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

Total Attachments: 8

PATENT REEL: 059253 FRAME: 0746

507175437



PATENT REEL: 059253 FRAME: 0747

Seagate Docket No.: STL 075034

SIMONSON of Ov entitled: CONTRO apply)	BI TANAKAMARU of Fremont, CA, Ryan James GOSS of Prior Lake, MN, Dana Lynn atonna, MN and Erich Franz HARATSCH, of San Jose, CA, are the inventor(s) of an invention LUNG SSD PERFORMANCE BY QUEUE DEPTH that is the subject matter of: (check all that
by Application an application Application No an internation identifiable in	pplication for Letters Patent which is identifiable in the United States Patent and Trademark Office No
of Delaware and to ("Assignee") is de	ate Technology LLC, a limited liability company organized and existing under the laws of the Stale re United States of America, and having offices at 47488 Kato Road, Fremont, CA 94538 USA, sirous of acquiring the entire right, title and interest in and to the invention, the applications, and Patent or similar foreign or domestic legal protection;
acknowledged, I invention, the abx applications claim or substitute for the lated to the Let the Director of the	RE, for good and valuable consideration, the receipt and adequacy of which is hereby ransfer to Assignee, its successors and assigns, my entire right, title and interest in and to the we-identified applications, all provisional applications from which any of the above-identified priority, corresponding domestic and foreign applications, continuation, division, renewal, he applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing lers Patent, and all rights and benefits under any applicable treaty or convention; and I authorize United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or ction to the Assignee.
numbers when as designate, to app countries and app	signee, its successors and assigns, to insert in this instrument the filing date(s) and application certained. I further authorize the Assignee, its successors and assigns, or anyone it may properly by for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign control Assignee the common representative in the above identified international application and any cation for the invention.
act whatsoever of without additional deliver to Assigne its successors an making application	Assignee, its successors and assigns, that I have not and shall not execute any writing or do any publicing with this Assignment. I, my executors or administrators, will at any time upon request, consideration, but at the expense of the Assignee, its successors and assigns, execute and e or its legal representatives such additional writings and do such additional acts as the Assignee, it assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the ind all countries, including without limitation providing testimony in any related interference, litigation
or an original join statement made (5) years, or both application, inclu- duty to disclose in part applications.	ed application was made or authorized to be made by me. I believe that I am the original inventor inventor of a claimed invention in the application. I hereby acknowledge that any willful false in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five I hereby state that I have reviewed and understand the contents of the above identified ling the claims, as amended by any amendment specifically referred to above. I acknowledge the information which is material to patentability as defined in 37 CFR 1.58, including for continuation-inmaterial information which became available between the filing date of the prior application and the itemational filing date of the continuation-in-part application.

Shuhel TANAI	KAMARU
	Date:
Ryan James (GOSS
	Oate
Dana Lynn SM	IONSON
	Date
Erich Franz H	ROLL AMATSCH
	1/30/2020

U.S. Assignment - Sergiate Technology LLC - Confidential

Seagate Docket No.: STL 075034

SIM	EREAS, Shuhei TANAKAMARU of Fremont, CA, Ryan James GOSS of Prior Lake, MN, Dana Lynn ONSON of Owatonna, MN and Erich Franz HARATSCH, of San Jose, CA, are the inventor(s) of an invention tiled: CONTROLLING SSD PERFORMANCE BY QUEUE DEPTH that is the subject matter of: (check all that iy)
	a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No

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 47488 Kato Road, Fremont, CA 94538 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.

		Date				
Ryan J	ames (OSS				
30.						
		Date				
	. marry					. :
	and the state of t				Setter Landen	3
1	par.			de estimatic	i santani santa	
de de la companya de	2	est to the		1		
att.		at in the second		1		· ****
. Paul	e de la company	1,111	garage Talahan	and the second	and the same	****
Dana Lj	mn SII	AONSC	W.			
		THE .				
					the state of the same	
		are the	17 117	22	The state of	
		Arrest.	27	- 21	20	
		Z- Date	2 -7 Minimum			
		Date 7	27			
		77. Oate	-2-7 Lii	_20		
		7 Dete	27			
		7- 0***	-27			
		Oate	27	<u> </u>		
		7 Oate	27			
Ench E	<i>p</i> 2277 1-3					
Erich F	ranz H					
Ench F	ranz H					
Erich F	ranz H					
Erich F	ranz H					
Erich F	ranz H					
Ench F	ranz H					

Seagate Docket No.: STL 075034

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 47488 Kato Road, Fremont, CA 94538 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.

Rev: 10/18/2012 PATENT

94	
Shuhei TANA	KAMARU
	July 21, 2020
	Oate
Ryan James	GOSS
	:
	Date
Dana Lynn Si	MONSON
•	
	Date
Erich Franz I	HARATSCH
	Oate

Seagate Docket No.: STL 075034

WHEREAS, Shuhei TANAKAMARU of Fremont, CA, Ryan James GOSS of Prior Lake, MN, Dana Lynn SIMONSON of Owatonna, MN and Erich Franz HARATSCH, of San Jose, CA, are the inventor(s) of an invention entitled: CONTROLLING SSD PERFORMANCE BY QUEUE DEPTH that is the subject matter of: (check all that apply)

a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. _________ filed on _________;

an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ________ filed on _______ 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 ________ filed on _______ filed on ________ filed on ________ filed on _______ filed on ________ filed on ________ filed on _______ filed on _______ filed on ________ filed on _______ filed on ________ filed on ________ filed on ________ filed on ________ filed on _________ filed on _________ filed on __________ filed on ___________ filed on ___________ filed on ________

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 47488 Kato Road, Fremont, CA 94538 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: 059253 FRAME: 0754

Shuhei TANAKAMARU				
Date M. M.				
Ryan James GOSS				
07/21/2020 Date				
Dana Lynn SIMONSON				
Date				
Erich Franz HARATSCH				
Date				

RECORDED: 03/14/2022