PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
III HOLDINGS 3, LLC	06/19/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	12459090
Application Number:	14830322
Application Number:	14920986
Application Number:	10096925
Application Number:	11176390
Application Number:	11672485
Application Number:	12525265
Application Number:	12225901
Application Number:	10811429
Application Number:	09864060
Application Number:	10950563

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	GEN074412 (#4)
NAME OF SUBMITTER:	RANDALL K. MCCARTHY
SIGNATURE:	/Randall K. McCarthy/
DATE SIGNED:	01/29/2019

Total Attachments: 13
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Exhibit A

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, III Holdings 3, LLC, a Delaware limited liability company, with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("***Assignor***"), does hereby sell, assign, transfer, and convey unto Seagate Technology LLC, a Delaware limited liability company with an address at 10200 S De Anza Blvd, Cupertino, CA 95014 ("***Assignee***"), all of Assignor's right, title, and interest in and to the following (collectively, the "***Assigned Patent Rights***"):

(a) the patents and patent applications listed on Appendix 1 (the "***Patents***");

(b) any future reissues, reexaminations, extensions, continuations, continuing prosecution application, requests for continuing examinations, divisions, and registrations of any of the Patents;

(c) rights to apply in any or all countries of the world for future patents, certificates of invention, utility models, industrial design protections, design patent protections, or other future governmental grants or issuances of any type related to the Patents; and

(d) causes of action and enforcement rights of any kind under, or on account of, any of the Patents and/or any of the items described in either of the foregoing categories (b) or (c), including, without limitation, all causes of action, enforcement rights and all other rights to seek and obtain any other remedies of any kind for past, current and future infringement.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein. This Assignment of Patent Rights will inure for the benefit of any permitted successors or assigns of Assignee.

Assignor will, at the reasonable request of Assignee, take all reasonable steps necessary and proper, to confirm the assignment to Assignee of the Assigned Patent Rights pursuant to this Assignment of Patent Rights, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining and perfecting the Assigned Patent Rights.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed on 6-19, 2018, to be effective as of June 20, 2018.

ASSIGNOR:

III Holdings 3, LLC

By: _____

Name: Gabriel Duran

Title: PRESIDENT

STATE OF IRELAND)
)ss.
COUNTY OF CITY OF DUBLIN)

On 19 JUNE 2018, before me, DECLAN C. HAYES, Notary Public in and for said State, personally appeared GAVIN DEWN, personally known to me (or 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/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature D C Hayes (Seal)

Declan C. Hayes
Notary Public
Commissioned for Life
Arthur Cox Building
10 Earlsfort Terrace
Dublin 2, Ireland

ASSIGNEE

SEAGATE TECHNOLOGY LLC

By: _____
Name: _____
Title: _____

STATE OF _____)
)ss.
COUNTY OF _____)

On _____, before me, _____, Notary Public in and for said State, personally appeared _____, personally known to me (or 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____ (Seal)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Santa Clara)

On June 20, 2018 before me, Demetrios Nicholas Mavrikis / Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Katherine E. Schuelke
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

DEMETRIOS NICHOLAS MAVRIKIS
Notary Public - California
Santa Clara County
Commission # 2175216
My Comm. Expires Dec 15, 2020

Signature Demetrios N. Mavrikis
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document Asgmt of Patent Rights
Title or Type of Document: Exhibit A Document Date:
Number of Pages: Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney In Fact	☐ Individual ☐ Attorney In Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer Is Representing:	Signer Is Representing:

Appendix 1 to Exhibit A

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
7769015 (11/853306)	US	8/3/2010 (9/11/2007)	High performance network adapter (HPNA) Kaiyuan Huang; Michael F. Kemp; Kenneth E. Neudorf
7908372 (11/761827)	US	3/15/2011 (6/12/2007)	Token based flow control for data communication Kaiyuan Huang; Michael F. Kemp; Ernst Munter
8631106 (11/761865)	US	1/14/2014 (6/12/2007)	Secure handle for intra- and inter-processor communications Kaiyuan Huang; Michael F. Kemp; Ernst Munter
7664026 (11/761804)	US	2/16/2010 (6/12/2007)	Methods and systems for reliable data transmission using selective retransmission Kaiyuan Huang; Michael F. Kemp; Ernst Munter
9501447 (14/107913)	US	11/22/2016 (12/16/2013)	Secure handle for intra- and inter-processor communications Kaiyuan Huang; Michael F. Kemp; Ernst Munter
9836431 (14/816403)	US	12/5/2017 (8/3/2015)	Secure handle for intra- and inter-processor communications Kaiyuan Huang; Michael F. Kemp; Ernst Munter
15/830334	US	12/4/2017	SECURE HANDLE FOR INTRA-AND INTER-PROCESSOR COMMUNICATIONS Kaiyuan Huang; Michael F. Kemp; Ernst Munter

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
15/992317	US	5/30/2018	SECURE HANDLE FOR INTRA-AND INTER-PROCESSOR COMMUNICATIONS Kaiyuan Huang; Michael F. Kemp; Ernst Munter;
7593284 (11/975275)	US	9/22/2009 (10/17/2007)	Memory emulation using resistivity-sensitive memory Robert Norman
7808809 (12/315445)	US	10/5/2010 (12/3/2008)	Transient storage device emulation using resistivity-sensitive memory Robert Norman
7876594 (12/586059)	US	1/25/2011 (9/16/2009)	Memory emulation using resistivity-sensitive memory Robert Norman
8064238 (12/924821)	US	11/22/2011 (10/5/2010)	System using non-volatile resistivity-sensitive memory for emulation of embedded flash memory Robert Norman
8270196 (13/303006)	US	9/18/2012 (11/22/2011)	Integrated circuits using non volatile resistivity sensitive memory for emulation of embedded flash memory Robert Norman
8270195 (12/931114)	US	9/18/2012 (1/24/2011)	Memory emulation using resistivity-sensitive memory Robert Norman
7751221 (12/004737)	US	7/6/2010 (12/21/2007)	Media player with non-volatile memory Robert Norman
8000121 (12/315292)	US	8/16/2011 (12/2/2008)	Solid state drive with non-volatile memory for a media device Robert Norman

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
8000122 (12/803809)	US	8/16/2011 (7/6/2010)	Media player with non-volatile memory Robert Norman
7327600 (11/342491)	US	2/5/2008 (1/30/2006)	Storage controller for multiple configurations of vertical memory Robert Norman
7649788 (12/006970)	US	1/19/2010 (1/8/2008)	Buffering systems for accessing multiple layers of memory in integrated circuits Robert Norman
7961527 (12/657385)	US	6/14/2011 (1/19/2010)	Buffering systems for accessing multiple layers of memory in integrated circuits Robert Norman
8120970 (13/134734)	US	2/21/2012 (6/14/2011)	Buffering systems for accessing multiple layers of memory in integrated circuits Robert Norman
7765380 (11/655599)	US	7/27/2010 (1/19/2007)	Fast data access through page manipulation Robert Norman
7836273 (12/804630)	US	11/16/2010 (7/26/2010)	Fast data access through page manipulation Robert Norman
6993649 (10/321772)	US	1/31/2006 (12/17/2002)	Method of altering a computer operating system to boot and run from protected media John Alan Hensley
7934033 (12/265695)	US	4/26/2011 (11/5/2008)	PCI-express function proxy Kiron Malwankar; Daniel Talayco; Ali Ekici;
8037037 (11/848071)	US	10/11/2011 (8/30/2007)	System for tracking media content transactions Scott White; Ian C. Schmehl

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
8447777 (13/228529)	US	5/21/2013 (9/9/2011)	System for tracking media content transactions Scott White; Ian C. Schmehl
9219743 (13/868212)	US	12/22/2015 (4/23/2013)	System for tracking media content transactions Scott White; Ian C. Schmehl
14/974986	US	12/18/2015	SYSTEM FOR TRACKING MEDIA CONTENT TRANSACTIONS Scott White; Ian C. Schmehl
7921268 (11/939633)	US	4/5/2011 (11/14/2007)	Method and system for function-specific time-configurable replication of data Holger Jakob
12/262308	US	10/31/2008	Method and system for function-specific time-configurable replication of data manipulating functions Holger Jakob
DE602008009721.8 (DE602008009721.8)	DE	9/14/2011 (11/13/2008)	Method and system for function-specific time-configurable replication of data manipulating functions Holger Jakob
FR2060973 (FR08019846.8)	FR	9/14/2011 (11/13/2008)	Method and system for function-specific time-configurable replication of data manipulating functions Holger Jakob
GB2060973 (GB08019846.8)	GB	9/14/2011 (11/13/2008)	Method and system for function-specific time-configurable replication of data manipulating functions Holger Jakob

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
7689007 (11/227620)	US	3/30/2010 (9/16/2005)	Methods and systems for protection of identity Joseph M. Bous; Gabriel A. Assaad; James Marciano
7991201 (12/632626)	US	8/2/2011 (12/7/2009)	Methods and systems for protection of identity Joseph M. Bous; Gabriel A. Assaad; James Marciano
8520904 (13/569766)	US	8/27/2013 (8/8/2012)	Methods and systems for protection of identity Joseph M. Bous; Gabriel A. Assaad; James Marciano
9087214 (13/970171)	US	7/21/2015 (8/19/2013)	Methods and systems for protection of identity Joseph M. Bous; Gabriel A. Assaad; James Marciano
9195775 (12/459090)	US	11/24/2015 (6/26/2009)	System and method for managing and/or rendering internet multimedia content in a network Osama Al-Shaykh; Rick Schwartz; Ralph Neff; Magdalena Leuca Espelien; Greg Sherwood
CNZL201080027459.0 (CN201080027459.0)	CN	10/12/2016 (6/4/2010)	System and method for managing and/or rendering internet multimedia content in a network Osama Al-Shaykh; Ralph Neff; Magdalena Leuca Espelien; Rick Schwartz; Greg Sherwood

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
EP10792432.6	EP	6/4/2010	System and method for managing and/or rendering internet multimedia content in a network Osama Al-Shaykh; Ralph Neff; Magdalena Leuca Espelien; Rick Schwartz; Greg Sherwood
JP5728675 (JP2012-517480)	JP	4/17/2015 (6/4/2010)	System and method for managing and/or rendering internet multimedia content in a network Osama Al-Shaykh; Ralph Neff; Magdalena Leuca Espelien; Rick Schwartz; Greg Sherwood
14/830322	US	8/19/2015	SYSTEM AND METHOD FOR USING AN APPLICATION ON A MOBILE DEVICE TO TRANSFER INTERNET MEDIA CONTENT Greg Sherwood; James J. Kosmach; Osama Al-Shaykh; Richard June; Eva MacKay
9716915 (14/920986)	US	7/25/2017 (10/23/2015)	System and Method for Managing and/or Rendering Internet Multimedia Content in a Network Osama Al-Shaykh; Ralph Neff; Magdalena Leuca Espelien; Rick Schwartz;
15/658097	US	7/24/2017	System and method for managing and/or rendering internet multimedia content in a network Osama Al-Shaykh; Ralph Neff; Magdalena Leuca Espelien; Rick Schwartz;

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
6957292 (10/096925)	US	10/18/2005 (3/14/2002)	Universal Serial Bus circuit which detects connection status to a USB host Richard Croyle
JP4267857 (JP2002-076882)	JP	2/27/2009 (3/19/2002)	General-purpose serial bus circuit Richard Croyle
DE60217214.4 (DE60217214.4)	DE	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
ES2278874 (ES02252454.0)	ES	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
FR1248203 (FR02252454.0)	FR	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
GB1248203 (GB02252454.0)	GB	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
IT1248203 (IT02252454.0)	IT	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
NL1248203 (NL02252454.0)	NL	1/3/2007 (4/5/2002)	Universal serial bus circuit to detect connection status Richard Croyle
7177969 (11/176390)	US	2/13/2007 (7/8/2005)	Universal serial bus circuit which detects connection status to a USB host Richard Croyle
7533209 (11/672485)	US	5/12/2009 (2/7/2007)	Universal serial bus circuit which detects connection status to a USB host Richard Croyle

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
EP08709981.8	EP	2/11/2008	Dual Or Multiple Row Package Peter Dirks; Dirk Groeneveld
8067830 (12/525265)	US	11/29/2011 (2/11/2008)	Dual Or Multiple Row Package Peter Dirks;Dirk Groeneveld
8208214 (12/225901)	US	6/26/2012 (3/27/2007)	Magnetic sensor device having near field light generation section employing a dielectric layer between a protruding metal layer and magnetic layer Noboru Iwata; Shintaro Miyanishi; Tomoki Ono; Yoshiteru Murakami
JP4004984 (JP2003-092383)	JP	8/31/2007 (3/28/2003)	Electromagnetic field generating element, information recording / reproducing head and information recording / reproducing apparatus Shintaro Miyanishi; Kunio Kojima; Hiroshi Fuji
7307923 (10/811429)	US	12/11/2007 (3/25/2004)	Electro magnetic field generating element, information recording and reproducing head and information recording and reproducing device Shintaro Miyanishi; Hiroshi Fuji; Kunio Kojima
6876603 (09/864060)	US	4/5/2005 (5/23/2001)	Information write/read head including an optical slit having a light emitting section whose width is shorter than a light beam diffraction limit Hiroshi Fuji; Hiroyuki Katayama; Kunio Kojima; Kenji Ohta

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
7461318 (10/950563)	US	12/2/2008 (9/28/2004)	Communication system realizing USB communications between a host computer and its peripheral device and a communication controller transmitting a USB signal under the USB standard Fumihiro Fukae; Hitoshi Naoe; Koji Sakai; Shohei Osawa
8930658 (13/421098)	US	1/6/2015 (3/15/2012)	Electronic equipment system and storage device Tatsuaki Amemura
CNZL201210076844.5 (CN201210076844.5)	CN	4/29/2015 (3/21/2012)	Electronic equipment system and storage device Tatsuaki Amemura
15/399277	US	1/5/2017	Electronic equipment system and storage device Inventorship not available
8271807 (12/179142)	US	9/18/2012 (7/24/2008)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
JP5529114 (JP2011-506252)	JP	4/25/2014 (7/24/2008)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
8245059 (12/855318)	US	8/14/2012 (8/12/2010)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
8271813 (12/855357)	US	9/18/2012 (8/12/2010)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
8276008 (12/855407)	US	9/25/2012 (8/12/2010)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
9026807 (12/855443)	US	5/5/2015 (8/12/2010)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
8549333 (13/621989)	US	10/1/2013 (9/18/2012)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
9405348 (14/081610)	US	8/2/2016 (11/15/2013)	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
9411393 (14/702846)	US	8/9/2016 (5/4/2015)	System and Method for Managing Energy Consumption in a Compute Environment David Brian Jackson