### 504875176 04/18/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

#### **CONVEYING PARTY DATA**

| Name           | Execution Date |  |
|----------------|----------------|--|
| YUSHI KATO     | 04/09/2018     |  |
| YOSHIAKI SAITO | 04/09/2018     |  |
| SOICHI OIKAWA  | 04/11/2018     |  |
| MIZUE ISHIKAWA | 04/09/2018     |  |
| HIROAKI YODA   | 04/09/2018     |  |

#### RECEIVING PARTY DATA

| Name:           | KABUSHIKI KAISHA TOSHIBA         |  |  |
|-----------------|----------------------------------|--|--|
| Street Address: | 1-1, SHIBAURA 1-CHOME, MINATO-KU |  |  |
| City:           | TOKYO                            |  |  |
| State/Country:  | JAPAN                            |  |  |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15905271 |

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)413-2220

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:** (703) 413-3000

**Email:** dgebremichael@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER:               | 511587US   |
|---------------------------------------|--|
| NAME OF SUBMITTER: DEJEN GEBREMICHAEL |  |
| SIGNATURE: /Dejen Gebremichael/       |  |
| DATE SIGNED:                          | 04/18/2018   |
|                                       | This document serves as an Oath/Declaration (37 CFR 1.63). |

**Total Attachments: 5** 

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PATENT REEL: 045578 FRAME: 0579

EPAS ID: PAT4921916

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| Title of MAGNETIC MEMORY DEVICE Invention   |
|---|
| As the below named inventor, I hereby declare that:   |
| This declaration  The attached application, or  |
| is directed to: United States application or PCT international application number 15/905,271 filed on February 26, 2018   |
| 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.  |
| WHEREAS, Kabushiki Kaisha Toshiba (hereinafter referred to as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;  |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.   |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.  |
| 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.   |
| LEGAL NAME OF INVENTOR  |
| Inventor: Yushi KATO  Date: April. 9th, 20/8.   |
| Signature: Weigh Kal  |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

| Invention MAGNETIC MEMORY DEVICE  |  |  |
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| LEGAL NAME OF INVENTOR  |  |  |
| Inventor: Yoshiaki SAITO Date: (iril 9 2018)  |  |  |
| Ciamatura   |  |  |

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| LEGAL NAME OF INVENTOR  |  |  |  |
| Inventor: Soichi OIKAWA Date: April [1, 20[8  |  |  |  |
| Said to Sauce   |  |  |  |

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| LEGAL NAME OF INVENTOR  |  |  |  |
| Inventor: Mizue ISHIKAWA Date: Apy. 9, 20 (8)   |  |  |  |
| Signature: Migul Jahrawa  |  |  |  |

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| Invention   | MAGNETIC  | MEMORY DE  | VICE  |   |   |
|---|---|--|---|---|---|
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| acknowledged, and<br>said ASSIGNEE, the<br>and in all foreign conther relevant Inter-<br>interest in and to a | for other good<br>ne full and exclu-<br>ountries (includi-<br>national Treaties<br>ny and all Lette<br>any and all fo | and valuable cons<br>sive right to the sang the right to class<br>and Arrangemen<br>ars Patent which r | ideration, I, by these present<br>aid invention in the United<br>im priority under the terms<br>ts from the aforesaid applicancy be granted therefor in | 5.00), the receipt whereof is<br>ints do sell, assign and transf<br>States and its territorial poss<br>of the International Convent<br>cation) and the entire right, the United States and its tell<br>divisions, reissues, continu | fer unto<br>sessions<br>tion and<br>title and<br>erritorial |
| any and all foreign<br>assignee of my enti<br>(his) successors and  | countries to iss<br>ire right, title and<br>d assigns, to the   | sue any and all of<br>d interest in and to<br>full end of the te                                       | said Letters Patent, when<br>the same, for the sole use   | es and its territorial possessic<br>granted, to said ASSIGNER<br>and behoof of said ASSIGN<br>Patent may be granted, as foot been made.   | E as the NEE, its   |
| respecting said in<br>continuation, substi<br>all of said Letters<br>possible to aid said                     | vention, and testitute, renewal an Patent to be issaid ASSIGNEE, it   | stify in any legal<br>d reissue applicati<br>ued to said ASSI<br>s (his) successors                    | proceeding, sign all law<br>ons, execute all necessary a<br>GNEE, make all rightful of  | resentatives any facts known<br>ful papers, execute all div-<br>assignment papers to cause a<br>paths, and, generally do even<br>di enforce proper protection a<br>eign countries.  | visional,<br>any and<br>crything                            |
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| LEGAL NAME OF   | INVENTOR  |  |   | 0 /0.   | \ (C)   |
| Inventor: Hiroaki   | YODA  |  | Date:   | april. 9th  | 2018  |
| Signature:  |   |  | <b>\</b> .  |   |   |

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PATENT REEL: 045578 FRAME: 0585

**RECORDED: 04/18/2018**