

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3872926

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | SECURITY AGREEMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | HGST, INC. | 05/12/2016 |
| RECEIVING PARTY DATA | | |
| Name: | JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT | |
| Street Address: | IL 1-1145/54/63 P.O. BOX 6026 | |
| City: | CHICAGO | |
| State/Country: | ILLINOIS | |
| Postal Code: | 60680 | |
| PROPERTY NUMBERS Total: 7 | | |
| Property Type | Number | |
| Application Number: | 14177216 | |
| Application Number: | 14177219 | |
| Application Number: | 14803091 | |
| Application Number: | 14835642 | |
| Application Number: | 14841672 | |
| Application Number: | 14956173 | |
| Application Number: | 14967025 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | | |
| <i>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.</i> | | |
| Email: | michael.barys@thomsonreuters.com | |
| Correspondent Name: | ELAINE CARRERA, LEGAL ASSISTANT | |
| Address Line 1: | 80 PINE STREET | |
| Address Line 2: | C/O CAHILL GORDON & REINDEL LLP | |
| Address Line 4: | NEW YORK, NEW YORK 10005 | |
| NAME OF SUBMITTER: | ELAINE CARRERA | |
| SIGNATURE: | /Michael Barys/ | |
| DATE SIGNED: | 05/13/2016 | |
| Total Attachments: 5 | | |

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RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

HGST, Inc.

2. Name and address of receiving party(ies)

Name: JPMorgan Chase Bank, N.A., as Collateral Agent

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) May 12, 2016

- ☐ Assignment ☐ Merger
☒ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: IL1-1145/54/63, P.O. Box 6026

City: Chicago

State: IL

Country: USA

Zip: 60680

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

See Schedule A

B. Patent No.(s)

See Schedule A

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Elaine Carrera, Legal Assistant

Internal Address: _____

Street Address: c/o Cahill Gordon & Reindel LLP

80 Pine Street

City: New York

State: NY Zip: 10005

Phone Number: (212) 701-3365

Docket Number: _____

Email Address: ecarrera@cahill.com

6. Total number of applications and patents involved: 7

7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____

- ☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Elaine Carrera

Signature

May 12, 2016

Date

Elaine Carrera

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Patent Collateral Agreement

This Thursday, May 12, 2016, HGST, INC. (“*Debtor*”), for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, grants to JPMORGAN CHASE BANK, N.A., a national banking association (the “*Agent*”), acting as collateral agent hereunder for the Secured Parties as defined in the Bridge Security Agreement, dated as of May 12, 2016, among Debtor, Agent and the other debtors party thereto, as the same may be amended, restated, amended and restated or otherwise modified from time to time (the “*Bridge Security Agreement*”) for the benefit of the Secured Parties, a lien on and security interest in, all right, title, and interest of such Debtor in and to all of the following (collectively, “*Patent Collateral*”):

- (i) Each patent and patent application owned by Debtor, other than to the extent the same constitutes Excluded Property, that is listed on Schedule A hereto (the “*Patents*”); and
- (ii) All proceeds of the foregoing, including any claim by Debtor against third parties for damages by reason of past, present or future infringement of any Patent, in each case together with the right to sue for and collect said damages.

All capitalized terms used herein without definition have the meanings given to such terms in the Bridge Security Agreement.

Debtor and Agent do hereby further acknowledge and affirm that the rights and remedies of the Agent with respect to the grant of a security interest in the Patent Collateral made hereby are more fully set forth in, and subject to, the Bridge Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Patent Collateral Agreement and the terms of the Bridge Security Agreement, the terms of the Bridge Security Agreement shall govern.

THIS PATENT COLLATERAL AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY, AND CONSTRUED BY AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

[SIGNATURE PAGE TO FOLLOW]

IN WITNESS WHEREOF, the undersigned Debtor has caused this Patent Collateral Agreement to be duly executed as of the date and year last above written.

HGST, INC.

By:

Name:


Michael C. Ray

Title:

Secretary

Accepted and agreed to as of the date and year last above written.

JPMORGAN CHASE BANK, N.A., as Agent

By: 
Name: Caitlin Stewart
Title: Vice President

**SCHEDULE A
TO PATENT COLLATERAL AGREEMENT**

U.S. PATENT APPLICATIONS

| No | Title | Patent Application Number |
|----|---|---------------------------|
| 1. | MEMORY APPARATUS AND METHODS THEREOF FOR PREVENTING READ ERRORS ON WEAK PAGES IN A NON-VOLATILE MEMORY SYSTEM | 14/177,216 |
| 2. | SHUTDOWNS AND DATA RECOVERY TO AVOID READ ERRORS WEAK PAGES IN A NON-VOLATILE MEMORY SYSTEM | 14/177,219 |
| 3. | INCREMENTAL ERROR DETECTION AND CORRECTION FOR MEMOERIES | 14/803091 |
| 4. | 3-D PLANES MEMORY DEVICE | 14/835642 |
| 5. | 4F2 SCR MEMORY DEVICE | 14/841672 |
| 6. | DEPOSITION METHOD FOR PLANAR SURFACES | 14/956173 |
| 7. | METHOD FOR FORMING PCM AND RRAM 3-D MEMORY CELLS | 14/967025 |