503625773 12/28/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3672405

NATURE OF CONVEYANCE.	
THIRD INVEI	signment to correct the SPELLING OF THE FIRST AND NTORS' NAMES ON THE COVER SHEET previously Reel 034731 Frame 0998. Assignor(s) hereby confirms the THE ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
KATSURO WATANABE	01/09/2015
KENJI SUGIURA	01/09/2015
YUTA UDO	01/09/2015

RECEIVING PARTY DATA

Name:	HGST NETHERLANDS B.V.
Street Address:	HERIKERBERGWEG 238
Internal Address:	LUNA ARENA
City:	AMSTERDAM
State/Country:	NETHERLANDS
Postal Code:	1101 CM

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14593801

CORRESPONDENCE DATA

Fax Number:

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.

Email: cthomas@pattersonsheridan.com,

psdocketing@pattersonsheridan.com

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	HGST/H20141206US1
NAME OF SUBMITTER:	STEVEN H. VERSTEEG
SIGNATURE:	/Steven H. VerSteeg/
DATE SIGNED:	12/28/2015

PATENT 503625773 REEL: 037393 FRAME: 0794

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PATENT REEL: 037393 FRAME: 0795

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMI SSI ON TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSI GNMENT

CONVEYING PARTY DATA

Name	Execution Date
KATSURA-WATANABE KATSURO WATANABE	01/09/2015
KENJI SUGIURA	01/09/2015
YATA-UBO- YUTA UDO	01/09/2015

RECEIVING PARTY DATA

Name:	HGST NETHERLANDS B.V.
1101.001.1.00.	HERIKERBERGWEG 238
M	LUNA ARENA A
City:	AMSTERDAM
State/ Country:	NETHERLANDS

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14593801	

CORRESPONDENCE DATA

Fax Number:

Email: cthomas@pattersonsheridan.com, psdocketing@pattersonsheridan.com

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if provided; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name:STEVEN H. VERSTEEGAddress Line 1:24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	H20141206US
NAME OF SUBMITTER:	STEVEN H. VERSTEEG
Signature:	/STEVEN H. VERSTEEG/
Date:	01/15/2015

Total Attachments: 1

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RECEIPT INFORMATION

EPAS I D: PAT3185341 **Receipt Date:** 01/15/2015

ASSIGNMENT FOR PATENT APPLICATION

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

A MAGNETIC HEAD PROVIDED SPIN TORQUE OSCILLATOR WITH LOW DRIVE VOLTAGE FOR MICROWAVE ASSISTED MAGNETIC RECORDING.

Whereas, **HGST Netherlands B.V.**, having a place of business at Herikerbergweg 238, Luna ArenA, 1101 CM Amsterdam, Netherlands (hereinafter referred to as "HGST"), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to HGST, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HGST, its successors and assigns; and we hereby agree that HGST may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HGST.

Signed on the dates indicated beside our signatures.

1)	Signature: <u>Katsuro Watanabe</u>	Date: <u>1/9/2015</u>
	Typed Name: Katsuro WATANABE	
2)	Signature: <u>Fenji Sugiura</u> Typed Name: Kenji SUGIURA	Date: (/9 (2015
3)	Signature:	Date: 1/9/20/5

HGST DOCKET NO.: HGST/H20141206US PAGE 1 OF 1

PATENT REEL: 037393 FRAME: 0798

ASSIGNMENT FOR PATENT APPLICATION

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

A MAGNETIC HEAD PROVIDED SPIN TORQUE OSCILLATOR WITH LOW DRIVE VOLTAGE FOR MICROWAVE ASSISTED MAGNETIC RECORDING.

Whereas, **HGST Netherlands B.V.**, having a place of business at Herikerbergweg 238, Luna ArenA, 1101 CM Amsterdam, Netherlands (hereinafter referred to as "HGST"), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to HGST, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HGST, its successors and assigns; and we hereby agree that HGST may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HGST.

Signed on the dates indicated beside our signatures.

RECORDED: 12/28/2015

1)	Signature: <u>Katsuro Watanabe</u>	Date: 1/9/2015
	Typed Name: Katsuro WATANABE	
2)	Signature: Fenji Suginva Typed Name: Kenji SUGIURA	Date:
3)	Signature: Jura Udo Typed Name: Yuta Udo	Date: 1/9/20/5

HGST DOCKET NO.: HGST/H20141206US PAGE 1 OF 1

PATENT REEL: 037393 FRAME: 0799