

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HIDEKI MASHIMA | 02/03/2014 |
| NOBUO YOSHIDA | 02/03/2014 |
| IWATA NORIHIRO | 02/03/2014 |
| TSUTOMU YASUDA | 02/03/2014 |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14743145 |
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| DATE SIGNED: | 07/01/2015 |
| Total Attachments: 1 | |
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ASSIGNMENT FOR PATENT APPLICATION

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

ZIG-ZAG MIMO HEAD REDUCING SPACE BETWEEN THREE SENSORS

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: Hideki Mashima Date: Feb, 3, 2014
Typed Name: Hideki MASHIMA
- 2) Signature: Nobuo Yoshida Date: Feb, 3, 2014
Typed Name: Nobuo YOSHIDA
- 3) Signature: Norihiko Iwata Date: Feb 3, 2014
Typed Name: Iwata NORIHIRO
- 4) Signature: Tsutomu Yasuda Date: Feb, 3, 2014
Typed Name: Tsutomu YASUDA