

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ROBERT EUGENIU MATEESCU</td> <td>11/19/2013</td> </tr> <tr> <td>DEJAN VUCINIC</td> <td>11/19/2013</td> </tr> <tr> <td>CYRIL GUYOT</td> <td>11/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	ROBERT EUGENIU MATEESCU	11/19/2013	DEJAN VUCINIC	11/19/2013	CYRIL GUYOT	11/19/2013				
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<table border="1"> <tr> <td>Name:</td> <td>HGST NETHERLANDS B.V.</td> </tr> <tr> <td>Street Address:</td> <td>HERIKERBERBERGWEG 238</td> </tr> <tr> <td>Internal Address:</td> <td>LUNA ARENAA</td> </tr> <tr> <td>City:</td> <td>AMSTERDAM</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>1101 CM</td> </tr> </table>		Name:	HGST NETHERLANDS B.V.	Street Address:	HERIKERBERBERGWEG 238	Internal Address:	LUNA ARENAA	City:	AMSTERDAM	State/Country:	NETHERLANDS	Postal Code:	1101 CM
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Application Number:	14084483												
CORRESPONDENCE DATA													
Fax Number:	(312)670-7864												
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
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NAME OF SUBMITTER:	JOAN PENNINGTON												

Signature:	/Joan Pennington/
Date:	11/19/2013
Total Attachments: 1 source=H20131032US1_Assignment-11-19-13#page1.tif	

ASSIGNMENT FOR PATENT APPLICATION


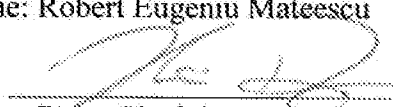

Whereas, I/we the undersigned inventor(s) have invented certain improvements as set forth in the patent application entitled:

IMPLEMENTING ENHANCED PERFORMANCE WITH READ BEFORE WRITE TO PHASE CHANGE MEMORY

Whereas, **HGST Netherlands B.V.**, having a place of business at Herikerbergweg 238, Luna ArenA, 1101 CM Amsterdam, The 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, I/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 date(s) indicated beside my (our) signature(s).

- 1) Signature: 
Typed Name: Robert Eugeniu Mateescu Date: 11/19/2013
- 2) Signature: 
Typed Name: Dejan Vucinic Date: 11/19/2013
- 3) Signature: 
Typed Name: Cyril Guyot Date: 11/19/2013