

PATENT ASSIGNMENT

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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>Kai-Chun LIN</td> <td>09/16/2011</td> </tr> <tr> <td>Hung-Chang YU</td> <td>09/16/2011</td> </tr> <tr> <td>Yue-Der CHIH</td> <td>09/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Kai-Chun LIN	09/16/2011	Hung-Chang YU	09/16/2011	Yue-Der CHIH	09/16/2011				
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<table border="1"> <tr> <td>Name:</td> <td>Taiwan Semiconductor Manufacturing Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>No. 8, Li-Hsin Road 6</td> </tr> <tr> <td>Internal Address:</td> <td>Science-Based Industrial Park</td> </tr> <tr> <td>City:</td> <td>Hsin-Chu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300-77</td> </tr> </table>		Name:	Taiwan Semiconductor Manufacturing Co., Ltd.	Street Address:	No. 8, Li-Hsin Road 6	Internal Address:	Science-Based Industrial Park	City:	Hsin-Chu	State/Country:	TAIWAN	Postal Code:	300-77
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CORRESPONDENCE DATA													
<p>Fax Number: (215)689-4905 Phone: 215-979-1000 Email: jsjulianti@duanemorris.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: STEVEN E. KOFFS - DUANE MORRIS LLP Address Line 1: 30 SOUTH 17TH STREET Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103-4196</p>													
ATTORNEY DOCKET NUMBER:	N1085-00828												
NAME OF SUBMITTER:	Steven E. Koffs												
<p>Total Attachments: 2 source=executedassign#page1.tif source=executedassign#page2.tif</p>													

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Serial No. 13/237,282
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ATTORNEY DOCKET NO.: 2011.0603/1085.828

ASSIGNMENT AND AGREEMENT

For value received, we, **Kai-Chun LIN, Hung-Chang YU and Yue-Der CHIH**, hereby transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **READ ARCHITECTURE FOR MRAM**, described in a non-provisional application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1

Dated: 2011.9.16

Kai-chun LIN
Kai-Chun LIN

Residence:

12F., No. 88, Lane 185, Xinzhuang Street, East District, Hsinchu City 300, Taiwan, R.O.C.

Inventor No. 2

Dated: 2011.9.16

Hung-Chang YU
Hung-Chang YU

Residence:

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Inventor No. 3

Dated: 2011.9.16

Yue Der CHIH
Yue Der CHIH

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