

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Rich Fackenthal</td><td>11/20/2009</td></tr><tr><td>Nicholas Hendrickson</td><td>11/20/2009</td></tr><tr><td>Aswin Thiruvengadam</td><td>11/20/2009</td></tr></tbody></table>	Name	Execution Date	Rich Fackenthal	11/20/2009	Nicholas Hendrickson	11/20/2009	Aswin Thiruvengadam	11/20/2009			
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Numonyx B.V.</td></tr><tr><td>Street Address:</td><td>Zone d'actives La Piece, A-One Business Center</td></tr><tr><td>Internal Address:</td><td>Route de l'Etraz</td></tr><tr><td>City:</td><td>1180 Rolle</td></tr><tr><td>State/Country:</td><td>SWITZERLAND</td></tr></table>	Name:	Numonyx B.V.	Street Address:	Zone d'actives La Piece, A-One Business Center	Internal Address:	Route de l'Etraz	City:	1180 Rolle	State/Country:	SWITZERLAND	
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: (503)439-6558 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 503-439-6500											
Email: docketing@bltg-ip.com											
Correspondent Name: Berkeley Law & Technology Group LLP											
Address Line 1: 17933 NW Evergreen Parkway, Suite 250											
Address Line 4: Beaverton, OREGON 97006											
ATTORNEY DOCKET NUMBER:	113.P094										
NAME OF SUBMITTER:	Julianne Flynn										
Total Attachments: 2 source=113P094#page1.tif source=113P094#page2.tif											

CH 12623926 \$40.00

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I (or we), the undersigned inventor(s):

**Rich Fackenthal
Nicholas Hendrickson
Aswin Thiruvengadam**

hereby sell, assign, and transfer to:

Numonyx B.V.

a Dutch corporation operating through its Swiss Branch, having a principal place of business at Zone d'activités La Pièce 2, A-One Business Center, route de l'Etraz, 1180 Rolle, Switzerland ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent entitled:

IMPROVED WRITE PERFORMANCE OF PHASE CHANGE MEMORY USING SET-PULSE SHAPING

the Declaration for which has been executed by the undersigned prior hereto or concurrently herewith, said patent application which can also be identified as follows (if necessary):

United States Patent Application Number 12/623,926 filed on 11/23/09.

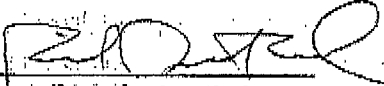

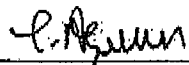
and in and to said application (nonprovisional or provisional) and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all nonprovisional applications claiming priority to said application, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all

facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives;

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; and

the undersigned having executed this Assignment document to formalize the assignment of said patent application to said Assignee, understand and agree that portions of this Assignment document are intentionally left blank in places, those places being reserved for providing a U.S. Patent Application Serial Number and a filing date for said patent application, which information is at the time of my (or our) signing this Assignment document, unknown. The undersigned, therefore, hereby authorize Berkeley Law & Technology Group LLP (BLTG), attorneys for said Assignee, in connection with the preparation and filing of said patent application to, after being signed below and once the U.S. Patent Application Serial Number and filing date for said patent application are known, add this missing information to this Assignment document so that the document is suitable for recording with the US Patent and Trademark Office (USPTO), and agree and understand that BLTG will, on behalf of said Assignee, proceed with the recording of this Assignment document. The undersigned understand and agree that BLTG, as attorneys for said Assignee, are legally obligated to represent the interests of said Assignee before the USPTO. The undersigned understand and agree that BLTG is not functioning as my (or our) attorneys in any manner and therefore the undersigned further understand and agree that BLTG does not legally represent me (or us) and will not look out for my (or our) interests in any manner.

Each Inventor please sign and Date below	
 Rich Fackenthal	11/20/09 (Today's Date)
 Nicholas Hendrickson	11-20-09 (Today's Date)
 Aswin Thiruvengadam	11-20-09 (Today's Date)