

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Soonwoo Cha	11/18/2009
Tim Minvielle	11/17/2009
Jong-Won Lee	11/19/2009
Jinwook Lee	11/16/2009

**RECEIVING PARTY DATA**

Name:	Numonyx B.V.
Street Address:	Zone d'activites La Piece 2, A-One Business Center
Internal Address:	Route de l'Etraz
City:	1180 Rolle
State/Country:	SWITZERLAND

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12627443

**CORRESPONDENCE DATA**

Fax Number: (503)439-6558  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 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.P088
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NAME OF SUBMITTER:	Julianne Flynn
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Total Attachments: 5  
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**CH \$40.00 12627443**

**501246635**

**PATENT  
 REEL: 024756 FRAME: 0942**

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## ASSIGNMENT

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

**Soonwoo Cha  
Tim Minvielle  
Sean Jong Lee  
Jinwook Lee**

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:

### **KEYHOLE-FREE SLOPED HEATER FOR PHASE CHANGE MEMORY**

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 12/627,443 filed on 11-30-09,

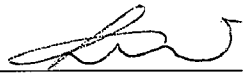
and in and to said application (nonprovisional or provisional) and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all nonprovisional applications claiming priority to said application, and all other patent applications that have been or shall be filed 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	
 _____ <b>Soonwoo Cha</b>	<u>11/18/2009</u> _____ <b>(Today's Date)</b>
_____ <b>Tim Minvielle</b>	_____ <b>(Today's Date)</b>
_____ <b>Jong-Won Lee</b>	_____ <b>(Today's Date)</b>
_____ <b>Jinwook Lee</b>	_____ <b>(Today's Date)</b>

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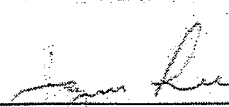
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 _____ <b>Tim Minvielle</b>	<u>11/17/09</u> _____ <b>(Today's Date)</b>
_____ <b>Jong-Won Lee</b>	_____ <b>(Today's Date)</b>
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_____ Soonwoo Cha	_____ (Today's Date)
_____ Tim Minvielle	_____ (Today's Date)
_____  Jong-Won Lee	_____ 11/19/09 (Today's Date)
_____ Jinwook Lee	_____ (Today's Date)

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_____ Soonwoo Cha	_____ (Today's Date)
_____ Tim Minvielle	_____ (Today's Date)
_____ Jong-Won Lee	_____ (Today's Date)
 _____ Jinwook Lee	_____ 11/16/09 (Today's Date)