PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 01/22/2007 500210848

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
	Corrective Assignment to correct the the spelling of Assignee's name to Qimonda North American Corporation previously recorded on Reel 018717 Frame 0509. Assignor(s) hereby confirms the Assignee is Qimonda North American Corporation.	

CONVEYING PARTY DATA

Name	Execution Date
Thomas D. Happ	12/05/2006
Thomas Nirschl	12/06/2006

RECEIVING PARTY DATA

Name:	Qimonda North American Corporation
Street Address:	3000 CenterGreen Way
City:	Cary
State/Country:	NORTH CAROLINA
Postal Code:	27513

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	11620432	

CORRESPONDENCE DATA

Fax Number: (650)712-0263

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 650-712-0340
Email: phurley@hmbay.com

Correspondent Name: Mark A. Haynes

Address Line 1: Haynes Beffel & Wolfeld LLP

Address Line 2: PO Box 366

Address Line 4: Half Moon Bay, CALIFORNIA 94019

ATTORNEY DOCKET NUMBER: MXIC 1696-1

NAME OF SUBMITTER: Mark A. Haynes

PATENT

REEL: 018992 FRAME: 0558

700314548

Total Attachments: 5

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PATENT ASSIGNMENT

Electronic Version V1.1 Stylesheet Version v1.1 01/05/2007 500203336

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Thomas D. Happ	12/05/2006
Thomas Nirsch!	12/06/2006

RECEIVING PARTY DATA

Nam e :	Qimonda North Amercian Corporation
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City:	Cary
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Postal Code:	27513

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phurley@hmbay.com

Correspondent Name:

Mark A. Haynes

Address Line 1:

Haynes Beffel & Wolfeld LLP

Address Line 2:

PO Box 366

Address Line 4:

Half Moon Bay, CALIFORNIA 94019

MXIC 1696-1 ATTORNEY DOCKET NUMBER: NAME OF SUBMITTER: Mark A. Haynes

Total Attachments: 3

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Arty, Docket No.; MCXIC 1696-1 (PCM0088) (P940207US)

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

- (1) Thomas D. Happ 31 Storm Street Tarrytown, NY 10591
- (2) Thomas Nirschl 17A Lamoille Street Essex Junction, VT 05452

hereinafter termed "Inventors", have invented certain new and useful improvements in

Current Compliant Sensing Architecture for Multilevel Phase Change Memory

and

[] have filed a non-provisional application for a United States patent disclosing and identifying the above invention on $\frac{1.5.07}{4.5.00}$ as Application No. $\frac{11.600}{6.00}$, $\frac{43.3}{4.00}$.

[X] are filing a non-provisional application herewith, and

[] have executed an oath of declaration of inventorship for such non-provisional application on:

(1) the 5th day of <u>December</u> 2006; (2) the 6th day of <u>December</u> 2006;

(hereinafter termed "application"); and

WHEREAS, Qimonda North American Corp., a corporation of Delaware, having a place of business at 3000 CenterGreen Way. Cary, North Carolina 27513 (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, hererofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents (including patent, utility model and industrial design) on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise, including the right to claim priority from the applications; (c) in and to any and all

Page 1

Atty. Docket No.: MXIC 1696-1 (PCM0088) (P940207US)

applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

- 2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said application; (c) for filing and prosecuting substitute, divisional, continuing or additional application covering said invention; (d) for filing and prosecuting application for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any application therefor and any patents granted thereon, including without limitation reissues and recomminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignce, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, the Inventors' respective heirs, legal representatives and assigns.
- 4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. Said Inventors hereby authorize any of the following artorneys:
 Mark A. Haynes, Ernest J. Beffel, Ir., Warren S. Wolfeld, James F. Hann, Bill Kennedy, Kenta Suzue, Peter J. Su and Joseph E. Root to (a) insert the date of execution of the oath or declaration of inventorship, and (b) insert the application number and filing date of this application when known.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

Thous blog	Date: 12/5/06
Thomas D. Happ	
	Date:
Thomas Nirschl	

Atty. Docket No.: MXIC 1696-1 (PCM0088) (P940207US)

applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

- Said Inventors hereby covenant and agree to cooperate with said Assignee to 2. enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said application; (c) for filing and prosecuting substitute, divisional, continuing or additional application covering said invention; (d) for filing and prosecuting application for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any application therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, the Inventors' respective heirs, legal representatives and assigns.
- 4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. Said Inventors hereby authorize any of the following attorneys:
 Mark A. Haynes, Ernest J. Beffel, Jr., Warren S. Wolfeld, James F. Hann, Bill Kennedy, Kenta Suzue, Peter J. Su and Joseph E. Root to (a) insert the date of execution of the oath or declaration of inventorship, and (b) insert the application number and filing date of this application when known.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

	Date:
Thomas D. Happ	_
Clau Ali	Date: 12-06-06
Thomas Nirschl	

FAX NUMBER:

HAYNES BEFFEL & WOLFELD LLP

P.O. Box 366, 751 Kelly Street
Half Moon Bay, CA 94019
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MARK HAYNES FRNIE BEFFEL WARREN WOLFELD JIM HANN

Of Counsek

*BILL KENNEDY
KENTA SUZUR
PETER SU

**JOE ROOT

*admitted in MA only

*tadmitted in NY only

FACSIMILE TRANSMITTAL FORM

TR	ANSMITTED TO:	Assignment Branch	
OF		USPTO	
FR	OM:	Paula Faulk Hurley, Patent Paralegal for Mark Haynes	
CL.	IENT/MATTER:	MXIC 1696-1 US 11/620,432	
DΛ	TE:	8 March 2007	
ТО	TAL NUMBER OF E	PAGES INCLUDING THIS COVER SHEET:	10
ORIG	HNAL:	1.0.00	
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Attached are the following documents: Letter of Non-Recordation from Examiner Allyson Purnell (2 pp); Assignment document (3 pp.); Cover Sheet 500210848 dated 01/22/2007 (2 pp); and

571-273-0140

Cover Sheet 500203336 dated 01/05/2007 (2 pp.).

Please charge any fees to Deposit Account 50-0869. \$40 was paid twice-for the original Assignment and the corrective Assignment so no fees should be due.

Thank you, Paula Faulk Hurley, Patent Paralegal for Mark Haynes Reg. No. 30,846

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JANUARY 23, 2007

PTAS

500210848A

MARK A. HAYNES HAYNES BEFFEL & WOLFELD LLP PO BOX 366 HALF MOON BAY, CA 94019

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