

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Ming Liu</td><td>12/06/2011</td></tr> <tr><td>Chenxi Zhu</td><td>12/06/2011</td></tr> <tr><td>Zongliang Huo</td><td>12/06/2011</td></tr> <tr><td>Feng Yan</td><td>12/06/2011</td></tr> <tr><td>Qin Wang</td><td>12/06/2011</td></tr> <tr><td>Shibing Long</td><td>12/06/2011</td></tr> </tbody> </table>		Name	Execution Date	Ming Liu	12/06/2011	Chenxi Zhu	12/06/2011	Zongliang Huo	12/06/2011	Feng Yan	12/06/2011	Qin Wang	12/06/2011	Shibing Long	12/06/2011
Name	Execution Date														
Ming Liu	12/06/2011														
Chenxi Zhu	12/06/2011														
Zongliang Huo	12/06/2011														
Feng Yan	12/06/2011														
Qin Wang	12/06/2011														
Shibing Long	12/06/2011														
RECEIVING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES</td></tr> <tr><td>Street Address:</td><td>No. 3, Beitucheng West Road</td></tr> <tr><td>Internal Address:</td><td>Chaoyang District</td></tr> <tr><td>City:</td><td>Beijing</td></tr> <tr><td>State/Country:</td><td>CHINA</td></tr> <tr><td>Postal Code:</td><td>100029</td></tr> </table>		Name:	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES	Street Address:	No. 3, Beitucheng West Road	Internal Address:	Chaoyang District	City:	Beijing	State/Country:	CHINA	Postal Code:	100029		
Name:	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES														
Street Address:	No. 3, Beitucheng West Road														
Internal Address:	Chaoyang District														
City:	Beijing														
State/Country:	CHINA														
Postal Code:	100029														
PROPERTY NUMBERS Total: 1															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13376925</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13376925										
Property Type	Number														
Application Number:	13376925														
CORRESPONDENCE DATA															
Fax Number:	(612)334-3312														
Phone:	6123343222														
Email:	lswaja@wck.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	Judson K. Champlin														
Address Line 1:	900 Second Avenue South														
Address Line 2:	Suite 1400														
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402														

OP \$40.00 13376925

501748577

PATENT
REEL: 027346 FRAME: 0869

ATTORNEY DOCKET NUMBER:	I135.12-0023
NAME OF SUBMITTER:	Judson K. Champlin
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

ASSIGNMENT

Attorney Docket No.

WHEREAS, We, Ming Liu; Chenxi ZHU; Zongliang HUO; Feng YAN; Qin WANG;
Shibing LONG, of No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China (hereinafter referred to as ASSIGNORS), are the inventors of an invention
described in an application for Letters Patent of the United States entitled
THREE-DIMENSIONAL MULTI-BIT/MULTI-BIT NON-VOLATILE MEMORY AND METHOD FOR
MANUFACTURING THE SAME, the application having been executed on even date
herewith, and/or being identifiable in the United States Patent and Trademark
Office by Application No. _____, filed _____; and

WHEREAS, INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES, an
institute organized and existing under the laws of the Country of P.R. CHINA,
and having offices at No.3 Beitucheng West Road, Chaoyang District, Beijing
100029 China ("Assignee") is desirous of acquiring the entire right, title and
interest in and to the invention, the application, and any and all Letters
Patent or similar legal protection, foreign or domestic, to be obtained
therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and
adequacy of which is hereby acknowledged, I transfer to Assignee, its
successors and assigns, my entire right, title and interest in and to the
invention, the above-identified application, all Letters Patent or similar
legal protection issuing thereon in the United States, and I authorize the
Director of the United States Patent and Trademark Office to issue the Letters
Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this
instrument the filing date and serial number of the application when
ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may
properly designate, to apply for Letters Patent or similar legal protection, in
its own name if desired, in any and all foreign countries.

We represent to the Assignee, its successors and assigns, that we have
not and shall not execute any writing or do any act whatsoever conflicting with
this Assignment. We, our executors or administrators, will at any time upon
request, without additional consideration, but at the expense of the Assignee,
its successors and assigns, execute such additional writings and do such
additional acts as the Assignee, its successors and assigns, may deem desirable
to perfect its enjoyment of this grant, and render all assistance in making
application for and obtaining, maintaining, and enforcing the Letters Patent or
similar legal protection on the invention in the United States.

Ming Liu
Ming Liu (Inventor)

Date: Dec. 6, 2011

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China

Chenxi ZHU
Chenxi ZHU(Inventor)

Date: 2011.12.6.

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China

Zongliang HUO
Zongliang HUO(Inventor)

Date: 2011.12.6

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China

Feng YAN
Feng YAN(Inventor)

Date: 2011.12.6.

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing,100029
China

Qin WANG
Qin WANG(Inventor)

Date: 2011.12.6

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China

Shibing Long
Shibing LONG(Inventor)

Date: 2011.12.6

Kangwei ZHANG
(Witness Printed Name)

Kangwei ZHANG
(Witness Signature)

(Witness Address) No.3 Beitucheng West Road, Chaoyang District, Beijing 100029
China