

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT2819634

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YANJUN MA	04/10/2014
EDWIN KAN	04/17/2014
RECEIVING PARTY DATA	
Name:	EMPIRE TECHNOLOGY DEVELOPMENT LLC
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Postal Code:	19808
PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	US1434172
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ATTORNEY DOCKET NUMBER:	2817.0262WO01
NAME OF SUBMITTER:	CARL K TURK
SIGNATURE:	/Carl K Turk/
DATE SIGNED:	04/17/2014
Total Attachments: 4	
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ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Yanjun Ma, of 4750 140th Ave NE, Bellevue, WA 98005, United States and Edwin Kan of 107 Briarwood Dr., #1, Ithaca, NY 14850, United States ("**Assignors**"), effective as of August 20, 2013, hereby sell, assign, transfer, and convey unto

(A) Empire Technology Development LLC, a Delaware limited liability company, with an address at 2711 Centerville Road, Suite 400, Wilmington, DE 19808 ("**U.S. Assignee**"), all rights, title, and interests that exist today and may exist in the future in and to any and all of the following items (1) through (8) below:

1. the inventions disclosed in the solution report/invention disclosure titled "**Flash Memory Cell Rank Determination Circuit**" and all inventions claimed and/or described in the Application (collectively, the "**Invention**");
2. the patent applications listed in the table below (the "**Application**");

<u>Patent Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title</u>
PCT/US14/34172	WO	04/17/2014	RANK DETERMINATION

3. all rights with respect to the Invention, including all United States patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Application ("**Potential Patents**");
4. all reissues, reexaminations, extensions, or registrations of the Potential Patents;
5. all non-United States patents, patent applications, and counterparts relating to any or all of the Invention, the Application, and the Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances ("**Foreign Rights**"), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;
6. all rights to claim priority rights deriving from the Application;
7. all causes of action and remedies related to any or all of the Application, the Invention, the Potential Patents, and the Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of

the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and

8. any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Invention, Potential Patents, and the Foreign Rights.

As used in this Assignment, "Assignee" means, collectively, the U.S. Assignee and the Non-U.S. Assignee. Assignor will not sign any document or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

Assignor hereby authorizes and requests authorized representative to insert on this Assignment any and all information necessary in the table in Section 2 above, including the filing dates, Patent Application Numbers, and titles when known.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignor, their successors, legal representatives and assigns.

[Signature Page(s) to Follow]

By:

Yan Jun Ma
Yan Jun Ma
4750 140th Ave NE
Bellevue, WA 98005

NOTARIZATION

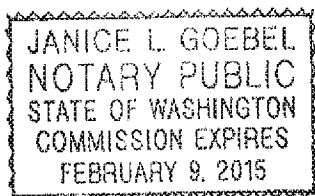
STATE OF Washington)
) ss.
COUNTY OF King)

On April 10, 2014, before me, Janice L. Goebel Notary Public,
personally appeared Yan Jun Ma, who proved to me on the basis of satisfactory evidence to be
the person whose name is subscribed to the within instrument and acknowledged to me that
he executed the same in his authorized capacity, and that by his signature(s) on the instrument
the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

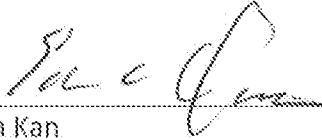
I certify under PENALTY OF PERJURY under the laws of the State of Washington that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Janice L. Goebel
my Commission expires 02/09/2015



By:


Edwin Kan
107 Briarwood Dr., #1,
Ithaca, NY 14850 United States

NOTARIZATION

STATE OF New York)
) ss.
COUNTY OF Tompkins)

On April 17, 2014, before me, Douglas M. Petersen, Notary Public,
personally appeared Edwin Kan, who proved to me on the basis of satisfactory evidence to be
the person whose name is subscribed to the within instrument and acknowledged to me that
he executed the same in his authorized capacity, and that by his signature(s) on the instrument
the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of New York that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



Douglas M. Petersen
Notary Public, State of New York
Seneca County 01PE6267974
Qualified in Tompkins County
Commission expires August 27, 2015