

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YAN SOLIHIN	05/20/2013
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16448239
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<b>ATTORNEY DOCKET NUMBER:</b>	APA-US-838241-05-US-DIV
<b>NAME OF SUBMITTER:</b>	KATHERINE D. GARDNER
<b>SIGNATURE:</b>	/Katherine D. Gardner/
<b>DATE SIGNED:</b>	09/12/2019
<b>Total Attachments: 3</b>	
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**ASSIGNMENT OF PATENT RIGHTS**

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Yan Solihin, of 5300 Panther Creek Drive, Raleigh, NC 27603, USA ("Assignor"), effective as of May 18, 2012, hereby sells, assigns, transfers, and conveys unto Invent First Corporation, a corporation of the state of North Carolina, having a principal place of business at 5300 Panther Creek Drive, Raleigh, NC 27603, USA ("Assignee"), all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "Rights"):

1. the inventions disclosed in the solution report/invention disclosure titled "*Single-Thread/Application Cache Partitioning Based on Multiple Data Sources for Improving Energy Efficiency*" and all inventions claimed and/or described in the Application (collectively, the "Invention");
2. the patent applications listed in the table below (the "Application");

Patent Application No.	Country	Filing Date	Title
PCT/US13/67177	PCT	August 29, 2013	CACHE PARTITIONING IN A MULTICORE PROCESSOR
14/363,792	US	June 7, 2014	CACHE PARTITIONING IN A MULTICORE PROCESSOR
15/474,577	US	March 30, 2017	CACHE PARTITIONING IN A MULTICORE PROCESSOR
16/448,239	US	June 21, 2019	CACHE PARTITIONING IN A MULTICORE PROCESSOR


3. all rights with respect to the Invention, including all U.S. patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisional, 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.

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 Solihin  
5300 Panther Creek Drive  
Raleigh, NC 27603, USA U.S.

**NOTARIZATION**

STATE OF North Carolina )  
 ) ss.  
COUNTY OF Wake )

On May 20, 2013, before me, Ann Lee Chang, Notary Public, personally appeared Yan Solihin, 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 North Carolina that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Ann Lee Chang  
My Commission Expires on June 26, 2017. ac

