

## PATENT ASSIGNMENT COVER SHEET

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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>
FANGFANG WU	10/13/2017
XIAOYANG LI	10/13/2017
ZONGPU QI	10/13/2017
DI HU	10/13/2017
JIN YU	10/13/2017
ZHENG WANG	10/13/2017
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15797384
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<b>NAME OF SUBMITTER:</b>	DANIEL R. MCCLURE
<b>SIGNATURE:</b>	/Daniel R. McClure/
<b>DATE SIGNED:</b>	10/30/2017

**Total Attachments: 2**

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## ASSIGNMENT

WHEREAS, Fangfang WU, Xiaoyang LI, Zongpu QI, Di HU, Jin YU, and Zheng WANG

hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: METHODS FOR ACCELERATING HASH-BASED COMPRESSION AND APPARATUSES USING THE SAME

Filed: \_\_\_\_\_ Serial No. \_\_\_\_\_

Executed on: \_\_\_\_\_

WHEREAS, Shanghai Zhaoxin Semiconductor Co., Ltd. of Room 301, No.2537, Jinke Road, Zhangjiang Hi-Tech Park, Shanghai 201203, P.R. China hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

ASSIGNMENT

Fangfang WU  
Fangfang WU

October 13, 2017  
Date

Xiaoyang LI  
Xiaoyang LI

October 13, 2017  
Date

Zongpu QI  
Zongpu QI

October 13, 2017  
Date

Di HU  
Di HU

October 13, 2017  
Date

Jin YU  
Jin YU

October 13, 2017  
Date

Zheng WANG  
Zheng WANG

October 13, 2017  
Date