

## 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>
SAURABH GARG	09/09/2016
KARAN SANGHI	09/07/2016
VLADISLAV PETKOV	09/09/2016
HAINING ZHANG	09/09/2016
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15271102
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<b>ATTORNEY DOCKET NUMBER:</b>	APPLE.583A/P30207US1
<b>NAME OF SUBMITTER:</b>	MARK I. WANG
<b>SIGNATURE:</b>	/Mark I. Wang/
<b>DATE SIGNED:</b>	09/20/2016
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS, We, SAURABH GARG, KARAN SANGHI, VLADISLAV PETKOV AND HAINING ZHANG, have invented certain new and useful improvements in an MEMORY ACCESS PROTECTION APPARATUS AND METHODS for which we have filed an application for Letters Patent on \_\_\_\_\_<sup>1</sup>, in the United States, as Application Serial No. \_\_\_\_\_<sup>1</sup>, which claims priority to U.S. Provisional Patent Application Serial No. 62/316,326 filed March 31, 2016;

AND WHEREAS, APPLE INC. (hereinafter "ASSIGNEE"), a California Corporation, with its principal place of business at 1 Infinite Loop, Cupertino, California 95014, United States of America, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:


NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

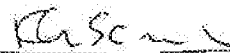
<sup>1</sup> Any attorney or agent of record and any registered attorney or agent of Gazdzinski & Associates, PC, 16644 West Bernardo Drive, Suite 201, San Diego CA, 92128, telephone (858) 675-1670, is hereby authorized to insert, when known,

ASSIGNMENT

Executed this 09 day of Sept. 20 16

  
SAURABH GARG

Executed this 07 day of September 20 16

  
KARAN SANGHI

Executed this 09 day of September 20 16

  
VLADISLAV PETKOV

Executed this 09 day of September 20 16

  
HAINING ZHANG