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SUBMISSION TYPE:		NEW ASS	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNM	ASSIGNMENT		
CONVEYING PARTY	/ DATA				
		Name		Execution Date	
TAO WANG				05/02/2018	
MANSOUR KERAMAT				05/02/2018	
YI CHUN A. FU				05/02/2018	
RECEIVING PARTY	DATA				
Name:	APPL	INC.			
Street Address:	ONE A	PPLE PARK WA	Y		
City:	CUPE	RTINO			
State/Country:	CALIF	ORNIA			
Postal Code:	95014	95014			
PROPERTY NUMBE	RS Total:				
Property Type		1	lumber	]	
Application Number: 15		15969547	5969547		
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CORRESPONDENC	E DATA				
,		(714)546-9035			
•			ress first; if that is uns ccessful, it will be sen	successful, it will be sent at via US Mail	
•		714-641-5100			
Email: rtAPp		rtAPpt@rutan.co	ot@rutan.com		
•		JACOB AIKIN /	DB AIKIN / RUTAN & TUCKER, LLP		
Address Line 1:		611 ANTON BO	ANTON BOULEVARD, SUITE 1400		
Address Line 4:		COSTA MESA,	CALIFORNIA 92626		
ATTORNEY DOCKET	NUMBER	026057.37	026057.37921		
NAME OF SUBMITTER:		JACOB A	JACOB AIKIN		
	SIGNATURE:		/Jacob Aikin/		
SIGNATURE:					
SIGNATURE: DATE SIGNED:		05/02/201			
		05/02/201			
DATE SIGNED:			8		

## ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 026057.37921

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, <u>Tao Wang, Mansour Keramat, Yi Chun A Fu</u>, hereby sell, assign, and transfer to <u>Apple Inc.</u>,

a <u>corporation</u> of <u>California</u> (Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at \_\_\_\_One Apple Park Way, Cupertino, CA, 95014\_\_\_

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

## CAPACITOR STRUCTURE WITH CORRELATED ERROR MITIGATION AND IMPROVED SYSTEMATIC MISMATCH IN TECHNOLOGIES WITH MULTIPLE PATTERNING

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/969,547 filed May 2, 2018

and in and to said application (provisional or non-provisional) and all provisional applications, nonprovisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:  $\frac{5/2}{\text{Date}}, 20 \underline{18}$ Name: Tao Wang <u>5/2</u>,20<u>18</u> Date Nam Name: Mansour Keramat <u>5/2</u>, 20<u>18</u> Date

Assignment Document Return Address: RUTAN & TUCKER, LLP Five Palo Alto Square 3000 El Camino Real, Suite 200 Palo Alto, CA 94306 (650) 320-1500

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