

## 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>
XIAOHUA YANG	04/13/2017
LINFENG GUO	04/12/2017
FRANCESCO IACOPINO	04/12/2017
FELIX CHOU	04/12/2017
XIANG FU	04/12/2017
KRISHNA RAPAKA	04/12/2017
MUKTA GORE	04/13/2017
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<b>City:</b>	CUPERTINO
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<b>Postal Code:</b>	95014
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15487853
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<b>NAME OF SUBMITTER:</b>	ROBERT L. HAILS
<b>SIGNATURE:</b>	/Robert L. Hails/
<b>DATE SIGNED:</b>	04/14/2017

PATENT

**Total Attachments: 2**

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## ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to **Apple Inc.**, a corporation of the state of California, having a principal place of business at 1 Infinite Loop, Cupertino, California, 95014-2084 ("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 and discoveries that are disclosed in the United States Patent Application entitled:

TECHNIQUES FOR CALCULATION OF QUANTIZATION MATRICES IN VIDEO CODING

the specification of which is attached hereto unless the following is entered:

Filed on	as United States Application Number or PCT International Application Number	and was amended on (if applicable)
April 14, 2017	15/487,853	

and in and to said United States Patent Application and all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications that have been or shall be filed in the United States or any foreign country on any of said inventions and discoveries; and in and to all original and reissued patents that have been or shall be issued in the United States or any foreign country on said inventions and discoveries; and in and to all rights of priority resulting from the filing of said United States Patent Application;

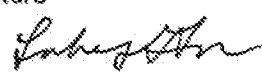
agree that said Assignee may apply for and receive a patent or patents for said inventions and discoveries in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications on any and all said inventions and discoveries; 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 and discoveries and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and discoveries and for vesting title to said inventions and discoveries, and all applications for patents and all patents on said inventions and discoveries, 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.

Inventor: **Xiaohua Yang**

Inventor Signature 	Date 4/13/2017
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Inventor: **Linfeng Guo**

Inventor Signature 	Date 4/12/2017
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Inventor: **Francesco Iacopino**

Inventor Signature 	Date 4/12/2017
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Inventor: **Felix Chou**

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Inventor: **Xiang Fu**

Inventor Signature Xiang Fu	Date 4/12/2017
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Inventor: **Krishna Rapaka**

Inventor Signature 	Date 04/12/2017
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Inventor: **Mukta Gore**

Inventor Signature Ms Gore	Date 04/13/2017
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