

<b>PATENT ASSIGNMENT COVER SHEET</b>
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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>
XING WEN	03/27/2018
DAZHONG ZHANG	03/27/2018
PEIKANG SONG	03/27/2018
XIAOSONG ZHOU	03/27/2018
SUDENG HU	03/27/2018
HSI-JUNG WU	03/27/2018
JAE HOON KIM	03/27/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	APPLE INC.
<b>Street Address:</b>	ONE APPLE PARK WAY
<b>City:</b>	CUPERTINO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95014-2084
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15938158
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	082438.310760
<b>NAME OF SUBMITTER:</b>	ROBERT L. HAILS
<b>SIGNATURE:</b>	/Robert L. Hails/
<b>DATE SIGNED:</b>	04/13/2018

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 One Apple Park Way, 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:

**APPLICATIONS FOR DECODER-SIDE MODELING OF OBJECTS IDENTIFIED  
IN DECODED VIDEO DATA**

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)
March 28, 2018	15/938,158	

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: **Xing Wen**

Inventor Signature 	Date 3/27/2018
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Inventor: **Dazhong Zhang**

Inventor Signature 	Date 3/27/2018
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Inventor: **Peikang Song**

Inventor Signature 	Date 3/27/2018
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Inventor: Xiaosong Zhou

Inventor Signature 	Date 3/27/18
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Inventor: Sudeng Hu

Inventor Signature 	Date 3/27/2018
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Inventor: Hsi-Jung Wu

Inventor Signature 	Date 3/27/2018
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Inventor: Jae Hoon Kim

Inventor Signature 	Date 3/27/2018
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