

## 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>
LI ZHANG	06/01/2020
JIZHENG XU	06/01/2020
KAI ZHANG	06/01/2020
WEIJIA ZHU	06/01/2020
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<b>Postal Code:</b>	90066
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17737260
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<b>NAME OF SUBMITTER:</b>	MICHAIAH COPP
<b>SIGNATURE:</b>	/Michaiah Copp/
<b>DATE SIGNED:</b>	05/06/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 4</b>	

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source=Executed\_Dec\_Assign\_CHINA\_130408-8666US00#page8.tif

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In re Patent Application of:

Applicants: BEIJING BYTEDANCE NETWORK  
TECHNOLOGY CO., LTD. (北京字节跳动网络技术  
有限公司) and BYTEDANCE INC.

Inventors: Li ZHANG et al.

Application No.: TBD

Confirmation No.: TBD

Filing Date: TBD

Title: QUANTIZATION PROPERTIES OF  
ADAPTIVE IN-LOOP COLOR-SPACE  
TRANSFORM FOR VIDEO CODING

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**INVENTOR DECLARATION AND ASSIGNMENT TO BYTEDANCE INC.**

I hereby declare that:

I believe I am an original joint inventor of a claimed invention in (1) a patent application  
entitled:

**QUANTIZATION PROPERTIES OF ADAPTIVE IN-LOOP COLOR-SPACE  
TRANSFORM FOR VIDEO CODING**

which is filed on November 6, 2020, as PCT Application No.  
PCT/CN2020/126962, which, under the Paris Convention, claims the priority to and  
benefits of

(2) PCT patent application entitled “ADAPTIVE IN-LOOP  
COLOR-SPACE TRANSFORM FOR VIDEO CODING” filed as International  
Patent Application No. PCT/CN2019/116280 on November 7, 2019.

I authorize and request an attorney appointed by an applicant or assignee to hereafter  
insert above the filing date and application number of each application when known.

I believe the following persons are original joint inventors of the above-identified patent  
application(s):

Li ZHANG, San Diego, CA, USA;

Jizheng XU, San Diego, CA, USA;

Kai ZHANG, San Diego, CA, USA;

Hongbin LIU, Beijing, China:

Weijia Zhu, San Diego, CA, USA; and

Yue WANG, Beijing, China:

I made, authorized to make, or hereby make or authorize to make the above-identified patent application at the U.S. Patent and Trademark Office or other patent offices.

I have reviewed and understand the contents of the above-identified patent application(s) including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

**INVENTOR ASSIGNMENT TO BYTEDANCE INC.**

As a named inventor, I hereby assign to BYTEDANCE INC., a corporation, having a place of business at 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California 90066, United States, and its successors and assigns (collectively “the Assignee”), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in the each and all of the following applications:

(1) PCT patent application entitled “QUANTIZATION PROPERTIES OF ADAPTIVE IN-LOOP COLOR-SPACE TRANSFORM FOR VIDEO CODING” filed as PCT Application No. PCT/CN2020/126962 on November 6, 2020 ;

(2) PCT patent application entitled “ADAPTIVE IN-LOOP COLOR-SPACE TRANSFORM FOR VIDEO CODING” filed as International Patent Application No. PCT/CN2019/116280 on November 7, 2019.

I authorize and request an attorney appointed by an applicant or assignee to hereafter insert above the filing date and application number of said application(s) when known.

This assignment includes the entire right, title and interest in the above-identified patent applications, all legal equivalents thereof in any country, any and all United States, Patent Cooperation Treaty, Chinese and other foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said applications and patents of the United States, Patent Cooperation Treaty, Chinese and all other foreign patents, utility models, and design registrations, and the right to claim priority based on the filing dates of the above-identified



Date: June 1, 2020

Full name of inventor: Kai ZHANG

Inventor's signature: 

Date: June 1, 2020

Full name of inventor: Weijia Zhu

Inventor's signature: 

Date: June 1, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: BYTEDANCE INC.

Authorized officer's legal name: Meixin Li

Authorized officer's title: Authorized Legal Counsel

Authorized officer's signature: 

Date: June 2, 2020

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