507772609 02/28/2023 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY	DATA					
			Name		Execution Date	
YE-KUI WANG					05/12/2021	
KAI ZHANG					05/12/2021	
LI ZHANG					05/12/2021	
RECEIVING PARTY D	ΑΤΑ					
Name:	BYTED	BYTEDANCE INC.				
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State/Country:	CALIF	ORNI	Ą			
Postal Code:	90066					
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Property Type	•		Number			
Application Number:		1/99	2426	2426		
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SIGNATURE:		/BRANDT D. HOWELL/				
DATE SIGNED:		02/28/2023				
Total Attachments: 4						
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In re Patent Application of:

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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: Ye-kui WANG, et al.

Application No.: TBD

Confirmation No.: TBD

Filing Date: TBD

Title: SUBPICTURE SUB-BITSTREAM EXTRACTION IMPROVEMENTS

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:

SUBPICTURE SUB-BITSTREAM EXTRACTION IMPROVEMENTS

which is filed on May 21, 2021, as PCT Application No.

<u>PCT/CN2021/095182</u>, which, under the Paris Convention, claims the priority to and benefits of

(2) PCT patent application entitled "SUBPICTURE SUB-BITSTREAM EXTRACTION PROCESS IN VIDEO CODING" filed as International Patent Application No. PCT/CN2020/091696 on May 22, 2020.

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):

Ye-kui WANG San Diego, CA, USA; Zhipin DENG Beijing, China; Kai ZHANG San Diego, CA, USA; and

Li ZHANG San Diego, CA, USA;

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 "SUBPICTURE SUB-BITSTREAM EXTRACTION IMPROVEMENTS" filed as PCT Application No. <u>PCT/CN2021/095182</u> on <u>May 21, 2021</u>;

(2) PCT patent application entitled "SUBPICTURE SUB-BITSTREAM EXTRACTION PROCESS IN VIDEO CODING" filed as International Patent Application No. PCT/CN2020/091696 on May 22, 2020.

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 patent applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like

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purposes, and the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignce to apply in all countries in the name of the Assignce for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignce existing at the time said inventions and improvements were made. Should I have any remaining interest. I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements on a sign.

The foregoing assignments, sele and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged by me.

i hereby represent and covenant that no assignment, sale, agreement or encombrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myscif and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all partinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignce or its legal representative any and all papers, documents, instruments or affidavity in connection with obtaining, maintaining, issuing or enforcing said explication, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to curry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby heve dely executed the declaration and assignment below with my name.

Full name of inventor: Ye-I	kui WAYQ Jahandhe t	Manual and a second
Inventor's signature:	MARTING AND	
Date: May 12, 2021	New Mr.	

Full same of invento	r: Kai ZHANG	1 10	S 10
Fun name of invento Inventor's signature:			
Date: May 12, 2021			

Attorney Docket No.: C21W9119 130308-8806.8009 920056120918002

Full name of inventor: Li ZHANG	
Inventor's signature:	0000
Date: May 12, 2021	

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

Assignee: BYTEDANCE INC. Authorized officer's logal name: Qi Li Authorized officer's title: Authorized Asgul Counsel Authorized officer's signature: QUAD Date: Max 13, 2021

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