

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7166079

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KAI ZHANG	07/28/2020
LI ZHANG	07/28/2020
JIZHENG XU	07/28/2020
RECEIVING PARTY DATA	
Name:	BYTEDANCE INC.
Street Address:	12655 WEST JEFFERSON BOULEVARD, SIXTH FLOOR
Internal Address:	SUITE NO. 137
City:	LOS ANGELES
State/Country:	CALIFORNIA
Postal Code:	90066
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17667380
CORRESPONDENCE DATA	
Fax Number:	(206)359-9000
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	(206) 359-8000
Email:	mcopp@perkinscoie.com
Correspondent Name:	PERKINS COIE LLP / VINAY SATHE
Address Line 1:	P.O. BOX 1247
Address Line 4:	SEATTLE, WASHINGTON 98111-1247
ATTORNEY DOCKET NUMBER:	130408-8677.US03
NAME OF SUBMITTER:	MICHAIAH COPP
SIGNATURE:	/Michaiah Copp/
DATE SIGNED:	02/09/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	
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PATENT

REEL: 058933 FRAME: 0740

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: Kai ZHANG et al.

Application No.: TBD

Confirmation No.: TBD

Filing Date: TBD

Title: SUBPICTURE SIZE DEFINITION IN VIDEO
PROCESSING

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 SIZE DEFINITION IN VIDEO PROCESSING

which is filed on 10 August, 2020, as PCT Application No.

PCT/CN2020/108159, which, under the Paris Convention, claims the priority to and
benefits of

(2) PCT patent application entitled "METHODS OF SUB-PICTURES IN
VIDEO CODING AND DECODING" filed as International Patent Application
No. PCT/CN2019/100114 on August 10, 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):

Kai ZHANG San Diego, CA, USA;

Zhipin DENG Beijing, China;

Hongbin LIU, Beijing, China;

Li ZHANG San Diego, CA, USA; and

Jizheng XU, 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 SIZE DEFINITION IN VIDEO PROCESSING" filed as PCT Application No. PCT/CN2020/108159 on 10 August, 2020 ;

(2) PCT patent application entitled "METHODS OF SUB-PICTURES IN VIDEO CODING AND DECODING" filed as International Patent Application No. PCT/CN2019/100114 on August 10, 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 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 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 Assignee to apply in all countries in the name of the Assignee 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 Assignee 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 anywhere in the world.

The foregoing assignments, sale 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 encumbrance 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 myself 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 pertinent 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 Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

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

Full name of inventor: Kai ZHANG

Inventor's signature: Kai Zhang

Date: July 28, 2020

Full name of inventor: Li ZHANG

Inventor's signature: Li Zhang

Date: July 28, 2020

Full name of inventor: Jizheng XU

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Inventor's signature: *[Signature]*

Date: July 28, 2020

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

Assignee: PERKINS COLE, INC.

Authorized officer's full name: Merixh U

Authorized officer's title: Authorized Legal Counsel

Authorized officer's signature: *[Signature]*

Date: July 29, 2020

Perkins Cole LLP

P.O. Box 1247

Seattle, Washington 98111-1247

Telephone: (206) 350-3700

Facsimile: (206) 350-3198