

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7107042

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JIZHENG XU	11/29/2021
LI ZHANG	11/29/2021
KAI ZHANG	11/29/2021
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:	17569390
CORRESPONDENCE DATA	
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Address Line 4:	SEATTLE, WASHINGTON 98111-1247
ATTORNEY DOCKET NUMBER:	130408-8582.US12
NAME OF SUBMITTER:	MICHAIAH COPP
SIGNATURE:	/Michaiah Copp/
DATE SIGNED:	01/06/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	
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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: Jizheng XU, et al.

Application No.: TBD

Confirmation No.: TBD

Filing Date: TBD

Title: VIRTUAL PREDICTION BUFFER FOR
INTRA BLOCK COPY IN VIDEO CODING

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:

VIRTUAL PREDICTION BUFFER FOR INTRA BLOCK COPY IN VIDEO CODING
which is filed on July 1, 2020, as PCT Application No. PCT/CN2020/099702, which,
under the Paris Convention, claims the priority to and benefits of

(2) PCT patent application entitled “BUFFER MANAGEMENT AND
BLOCK VECTOR CODING FOR INTRA BLOCK COPY” filed as International
Patent Application No. PCT/CN2019/094957 on July 6, 2019.

(3) PCT patent application entitled “BUFFER MANAGEMENT AND
BLOCK VECTOR CODING FOR INTRA BLOCK COPY” filed as International
Patent Application No. PCT/CN2019/095297 on July 9, 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):

Jizheng XU, San Diego, CA, USA:

Li ZHANG, San Diego, CA, USA:

Kai ZHANG, San Diego, CA, USA:

Hongbin LIU, Beijing, China; 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 "VIRTUAL PREDICTION BUFFER FOR INTRA BLOCK COPY IN VIDEO CODING" filed as PCT Application No. PCT/CN2020/099702 on July 1, 2020;

(2) PCT patent application entitled "BUFFER MANAGEMENT AND BLOCK VECTOR CODING FOR INTRA BLOCK COPY" filed as International Patent Application No. PCT/CN2019/094957 on July 6, 2019.

(3) PCT patent application entitled "BUFFER MANAGEMENT AND BLOCK VECTOR CODING FOR INTRA BLOCK COPY" filed as International Patent Application No. PCT/CN2019/095297 on July 9, 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.

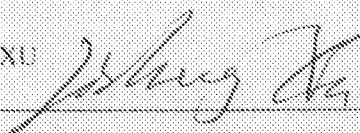
I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee 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: Jizheng XU

Inventor's signature: _____

Date: November 29, 2021

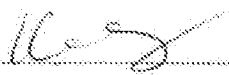


Full name of inventor: LI ZHANG

Inventor's signature: 

Date: November 29, 2021

Full name of inventor: Kai ZHANG

Inventor's signature: 


Date: November 29, 2021

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: Qili

Authorized officer's title: Authorized Legal Counsel

Authorized officer's signature: 

Date: November 30, 2021

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