## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JIZHENG XU	07/06/2020
LI ZHANG	07/06/2020
KAI ZHANG	07/06/2020

#### **RECEIVING PARTY DATA**

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17702318

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ATTORNEY DOCKET NUMBER:	NEY DOCKET NUMBER: 130408-8670.US00	
NAME OF SUBMITTER: MICHAIAH COPP		
SIGNATURE:	/Michaiah Copp/	
<b>DATE SIGNED:</b> 03/24/2022		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 4** 

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PATENT REEL: 059387 FRAME: 0461

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Attorney Docket No.: C20W7148 130408-8670.WO01 P1907355703WO1

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: SETTING INTRA-BLOCK COPY VIRTUAL BUFFER BASED ON VIRTUAL PIPELINE DATA

**UNIT** 

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:

# SETTING INTRA-BLOCK COPY VIRTUAL BUFFER BASED ON VIRTUAL PIPELINE DATA UNIT

which is filed on September 23,2020, as PCT Application No.

PCT/CN2020/116959, which, under the Paris Convention, claims the priority to and benefits of

(2) PCT patent application entitled "GENERAL VIRTUAL BUFFERS FOR INTRA BLOCK COPY" filed as International Patent Application No. PCT/CN2019/107380 on September 23, 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; and

Attorney Docket No.: C20W7148 130408-8670.WO01 P1907355703WO1

### Hongbin LIU, 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 "SETTING INTRA-BLOCK COPY VIRTUAL BUFFER BASED ON VIRTUAL PIPELINE DATA UNIT" filed as PCT Application No. PCT/CN2020/116959 on September 23, 2020
  - (2) PCT patent application entitled "GENERAL VIRTUAL BUFFERS FOR INTRA BLOCK COPY" filed as International Patent Application No. PCT/CN2019/107380 on September 23, 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 jumped to a reasonable royalty, by reason of interspending and other violation of satest or parent conduction middle. I authorize the Assignment amply to all countries in the name of the Assignment for parents, without models, design registrations and like rights of exclusion and for inventors' certificates for each excursions and approximents.

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I hence representant coverant that no assignment take agreement or encombrance has been or will be made or entered has that would conflict with the assignment of said incompany and improvements to the Assignment.

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The competent to execute the above due branch and pagenment. Thereby have duly executed the declaration and assignment below with one page.

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Table 3034 (1924)	
Fall name of inventor, Lt ZHANG	
and the second s	N. Carlotte
Carter Spice to 2008	

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	Fall name of myomac Kai ZBANG / /
	Instant Communication // A Section 1
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	The Assigned hereby acknowledges the analymment. The undersigned is anthorized to
1973. (	ni buhaif of the Assigner.
	-Assign-g-BYTEDANCE INC.
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> PATENT REEL: 059387 FRAME: 0466

**RECORDED: 03/24/2022**