#### 506968197 11/09/2021

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7015035

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HONGBIN LIU	05/06/2020
YUE WANG	05/06/2020

#### **RECEIVING PARTY DATA**

Name:	BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.
Street Address:	ROOM B-0035, 2/F, NO.3 BUILDING, NO.30
Internal Address:	SHIXING ROAD, SHIJINGSHAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100041

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

Property Type	Number
Application Number:	17522347

#### CORRESPONDENCE DATA

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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.

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PERKINS COIE LLP / VINAY SATHE **Correspondent Name:** 

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ATTORNEY DOCKET NUMBER:	130408-8630.US00
NAME OF SUBMITTER:	MICHAIAH COPP
SIGNATURE:	/Michaiah Copp/
DATE SIGNED:	11/09/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 4**

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PATENT REEL: 058062 FRAME: 0571

Attorney Docket No.: C20W6690 130408-8630.WO01 P1905289601WO1

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: CONTEXT MODELING FOR RESIDUAL CODING		

# INVENTOR DECLARATION AND ASSIGNMENT TO BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD

I hereby declare that:

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

### CONTEXT MODELING FOR RESIDUAL CODING

which is filed on May 14, 2020, as PCT Application No.

PCT/CN2020/090194, which, under the Paris Convention, claims the priority to and benefits of

(2) PCT patent application entitled "CONTEXT MODELING FOR RESIDUAL CODING" filed as International Patent Application No. PCT/CN2019/086814 on May 14, 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;

Kai ZHANG San Diego, CA, USA;

Hongbin LIU, Beijing, China; and

Yue WANG Beijing, China;

Attorney Docket No.: C20W6690 130408-8630,WO01 P1905289601WO1

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 BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD

As a named inventor, I hereby assign to BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD. (北京字节跳动网络技术有限公司), a corporation having a place of business at Room B-0035, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District, Beijing 100041, China (中国北京市石景山区实兴大街30号院3号楼2层B-0035房间), 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 "CONTEXT MODELING FOR RESIDUAL CODING" filed as PCT Application No.PCT/CN2020/090194 on May 14, 2020 ;
  - (2) PCT patent application entitled "CONTEXT MODELING FOR RESIDUAL CODING" filed as International Patent Application No. PCT/CN2019/086814 on May 14, 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 REEL: 058062 FRAME: 0573 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 applicable law in China due to my status of being an employee of the Assignee or and 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.

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Full name of inventor. You WANG

REEL: 058062 FRAME: 0574

Attorney Docket No.: C20W6690 130408-8630,WO01 P1905289601WO1

Inventor's signature:	noung	
Date: <u>May 6, 2020</u>	7	
	3	
The Assignee hereby	acknowledges the assignment	. The undersigned is authorized to
act on behalf of the Assigne	Č.	***
Assignce: <u>BELIING I</u>	SYTEDANCE NETWORK T	ECHNOLOGY CO., LTD. (北京学
当即动列约拉卡有限公司	}	
Authorized officer's is	gal name: <u>Meixin Li</u>	
Authorized officer's ti	tle: <u>Authorized Legal Couns</u> e	1

Perkins Coie LLP P.O. Box 1247 Seattle, Washington 98111-1247 Telephone: (858) 726-5700 Facsimile: (206) 389-7198

Authorized officer's signature; \_\_\_

Date: May 7, 2020

PATENT REEL: 058062 FRAME: 0575

**RECORDED: 11/09/2021**