

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BEIJING OCEAN ENGINE NETWORK TECHNOLOGY CO., LTD.	12/22/2021
RECEIVING PARTY DATA		
Name:	BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.	
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17824304
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ATTORNEY DOCKET NUMBER:	130408-8727.US00	
NAME OF SUBMITTER:	MICHAIAH COPP	
SIGNATURE:	/Michaiah Copp/	
DATE SIGNED:	05/26/2022	
Total Attachments: 5		
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**ASSIGNMENT OF PATENT RIGHTS FROM BEIJING OCEAN ENGINE NETWORK
TECHNOLOGY CO., LTD. TO BEIJING BYTEDANCE NETWORK TECHNOLOGY
CO., LTD.**

Beijing Ocean Engine Network Technology Co., Ltd. (北京巨量引擎网络技术有限公司), a corporation in China, having a place of business at Suite 1007, Information Buliding, 13 Linyin North Road, Pinggu District, Beijing 101299, China, hereby assigns to Beijing Bytedance Network Technology Co., Ltd. (北京字节跳动网络技术有限公司), a corporation in China, having a place of business at Room B-0035, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District, Beijing 100041, China, and its successors and assigns (collectively hereinafter called "the Assignee"), any and all right, title and interest throughout the world that Beijing Ocean Engine Network Technology Co., Ltd. owns or may own in any and all inventions and improvements which are described in patents or applications listed in the attached Appendix A.

This assignment includes the entire right, title and interest in each listed patent or application in the attached Appendix A, all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of described 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, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of each listed patent or application in the attached Appendix A 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.

Beijing Ocean Engine Network Technology Co., Ltd. and Beijing Bytedance Network Technology Co., Ltd. acknowledge that the foregoing assignments, sale and transfer have been made for good and valuable consideration.

The undersigned is an employee and representative of, and is empowered to execute this assignment on behalf of, Beijing Ocean Engine Network Technology Co., Ltd.

Date: December 22, 2021

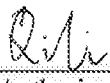
By: 
Qi Li, Authorized Legal Counsel
Beijing Ocean Engine Network Technology Co., Ltd.

This Assignment may be executed in counterparts.

ASSIGNEE CONFIRMATION

Beijing Bytedance Network Technology Co., Ltd. acknowledges and agrees to this assignment. The undersigned is an employee and representative of, and is empowered to execute this assignment on behalf of, Beijing Bytedance Network Technology Co., Ltd.

Date: December 22, 2021

By: 
Qi Li, Authorized Legal Counsel
Beijing Bytedance Network Technology Co., Ltd.

APPENDIX A

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTORS
1.	P1903238202H	130408- 8098.WO01	PCT/CN2020/091661	2020-05-21	ESCAPE VALUE CODING, PALETTE SIZE AND SYNTAX ELEMENTS CONDITIONAL BY CHROMA FORMAT	Jizheng Xu,Li Zhang,Yang Wang,Hongbin Liu
2.	P1908371906H	130408- 8159.WO05	PCT/CN2020/071863	2020-01-13	METHODS OF SUB-PICTURES IN VIDEO CODING AND DECODING	Kai Zhang,Zhipin Deng,Hongbin Liu,Li Zhang,Jizheng Xu,Ye-Kui Wang,Yang Wang
3.	P1910444501H	130408- 8191.WO00	PCT/CN2019/115034	2019-11-01	CROSS- COMPONENT LINEAR MODEL PREDICTION	Yang Wang,Li Zhang,Kai Zhang,Hongbin Liu,Yue Wang
4.	P1910444502H	130408- 8191.WO01	PCT/CN2020/080535	2020-03-21	CROSS- COMPONENT LINEAR MODEL PREDICTION	Yang Wang,Li Zhang,Kai Zhang,Hongbin Liu,Yue Wang
5.	P1910444503H	130408- 8191.WO02	PCT/CN2020/081958	2020-03-29	CROSS- COMPONENT LINEAR MODEL PREDICTION	Yang Wang,Li Zhang,Kai Zhang,Hongbin Liu,Yue Wang
6.	P1910444504H	130408- 8191.WO03	PCT/CN2020/085484	2020-04-18	CROSS- COMPONENT LINEAR MODEL PREDICTION	Yang Wang,Li Zhang,Kai Zhang,Hongbin Liu,Yue Wang
7.	P1911456501H	130408- 8201.WO00	PCT/CN2019/122237	2019-11-30	SUB-BLOCK BASED CROSS COMPONENT ADAPTIVE LOOP FILTER	Yang Wang,Li Zhang,Hongbin Liu,Kai Zhang,Kui Fan,Yue Wang
8.	P1911465101H	130408- 8200.WO00	PCT/CN2019/122256	2019-11-30	INTER PREDICTION WITH GEOMETRIC PARTITIONING	Zhipin Deng,Li Zhang,Hongbin Liu,Kai Zhang,Jizheng Xu,Yang Wang,Yue Wang

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTORS
9.	P1911465102H	130408-8200.WO01	PCT/CN2019/128091	2019-12-24	INTER PREDICTION WITH GEOMETRIC PARTITIONING	Zhipin Deng,Li Zhang,Hongbin Liu,Kai Zhang,Jizheng Xu,Yang Wang,Yue Wang
10.	P1911465103H	130408-8200.WO02	PCT/CN2020/071032	2020-01-08	INTER PREDICTION WITH GEOMETRIC PARTITIONING	Zhipin Deng,Li Zhang,Hongbin Liu,Kai Zhang,Jizheng Xu,Yang Wang,Yue Wang
11.	P1911465104H	130408-8200.WO03	PCT/CN2020/071552	2020-01-10	INTER PREDICTION WITH GEOMETRIC PARTITIONING	Zhipin Deng,Li Zhang,Hongbin Liu,Kai Zhang,Jizheng Xu,Yang Wang,Yue Wang
12.	P1911471401H	130408-8204.WO00	PCT/CN2019/124481	2019-12-11	LINE SELECTION AT VIRTUAL BOUNDARY FOR CROSS-COMPONENT ADAPTIVE LOOP FILTERING	Yang Wang,Li Zhang,Hongbin Liu,Kai Zhang,Zhipin Deng, Yue Wang
13.	P1911471402H	130408-8204.WO01	PCT/CN2020/099604	2020-06-30	LINE SELECTION AT VIRTUAL BOUNDARY FOR CROSS-COMPONENT ADAPTIVE LOOP FILTERING	Yang Wang,Hongbin Liu,Li Zhang
14.	P1912486101H	130408-8212.WO00	PCT/CN2020/074052	2020-01-26	MOTION COMPENSATION ALONG DIFFERENT DIRECTIONS	Hongbin Liu,Li Zhang,Kai Zhang,Yang Wang,Jizheng Xu,Yue Wang
15.	P2001516101H	130408-8219.WO00	PCT/CN2020/074485	2020-02-07	BLOCK VECTOR LIST CONSTRUCTION IN VIDEO PROCESSING	Yang Wang,Li Zhang,Hongbin Liu,Kai Zhang,Yue Wang
16.	P2001516102H	130408-8219.WO01	PCT/CN2020/082125	2020-03-30	BLOCK VECTOR LIST CONSTRUCTION	Yang Wang,Li Zhang,Hongbin Liu,Kai Zhang,Yue

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTORS
					IN VIDEO PROCESSING	Wang
17.	P2001516103H	130408-8219.WO02	PCT/CN2020/084298	2020-04-10	BLOCK VECTOR LIST CONSTRUCTION IN VIDEO PROCESSING	Yang Wang,Li Zhang,Hongbin Liu,Kai Zhang,Yue Wang
18.	P2002531801H	130408-8221.WO00	PCT/CN2020/075216	2020-02-14	CONTROL INFORMATION IN CODED REPRESENTATION OF VIDEO	Kai Zhang,Li Zhang,Yang Wang,Ye-Kui Wang,Zhipin Deng,Jizheng Xu,Hongbin Liu
19.	P2004593801H	130408-8250.WO00	PCT/CN2020/088546	2020-05-01	CONTEXT DERIVATION FOR AMVR AND BLOCK PARTITIONING	Yang Wang,Li Zhang,Zhipin Deng,Kai Zhang,Hongbin Liu
20.	P2012791301H	130408-8287.WO00	PCT/CN2020/138662	2020-12-23	VIDEO DECODER INITIALIZATION INFORMATION	Ye-Kui Wang,Kai Zhang,Li Zhang,Yang Wang,Jizheng Xu,Zhipin Deng
21.	P2012791302H	130408-8287.WO01	PCT/CN2021/070411	2021-01-06	VIDEO DECODER INITIALIZATION INFORMATION	Ye-Kui Wang,Kai Zhang,Li Zhang,Yang Wang,Jizheng Xu,Zhipin Deng
22.	P2012801501H	130408-8288.WO00	PCT/CN2020/139893	2020-12-28	SIGNALLING OF CROSS RANDOM ACCESS POINT REFERENCING IN VIDEO BITSTREAMS AND MEDIA FILES	Ye-Kui Wang,Yang Wang,Li Zhang
23.	P2012801502H	130408-8288.WO01	PCT/CN2021/070400	2021-01-06	SIGNALLING OF CROSS RANDOM ACCESS POINT REFERENCING IN VIDEO BITSTREAMS AND MEDIA FILES	Ye-Kui Wang,Yang Wang,Li Zhang

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