

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6917571

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BYTEDANCE INC.	05/28/2021
RECEIVING PARTY DATA		
Name:	LEMON INC.	
Street Address:	P.O. BOX 31119 GRAND PAVILION, HIBISCUS WAY,	
Internal Address:	802 WEST BAY ROAD, GRAND CAYMAN, CAYMAN ISLANDS	
City:	GRAND CAYMAN	
State/Country:	CAYMAN ISLANDS	
Postal Code:	KY1-1205	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17475774
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:	AJ.Isabelo@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:	130408-8274.US03	
NAME OF SUBMITTER:	ALLEN ISABELO	
SIGNATURE:	/Allen Isabelo/	
DATE SIGNED:	09/15/2021	
Total Attachments: 6		
source=Bytedance-LemonInc_assignments#page1.tif		
source=Bytedance-LemonInc_assignments#page2.tif		
source=Bytedance-LemonInc_assignments#page3.tif		
source=Bytedance-LemonInc_assignments#page4.tif		
source=Bytedance-LemonInc_assignments#page5.tif		

ASSIGNMENT OF PATENT RIGHTS FROM BYTEDANCE INC. TO LEMON INC.

Bytedance Inc., a U.S. corporation registered in the State of Delaware having a business address at 12655 West Jefferson Boulevard, Sixth floor, Suite No. 137, Los Angeles, California 90066, United States, hereby assigns to Lemon Inc., a corporation in Cayman Islands, having a place of business at P.O. Box 31119 Grand Pavilion, Hibiscus Way, 802 West Bay Road, Grand Cayman, KY1 - 1205 Cayman Islands, and its successors and assigns (collectively hereinafter called "the Assignee"), any and all right, title and interest throughout the world that Bytedance Inc. 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.

Bytedance Inc. and Lemon Inc. 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, Bytedance Inc.

Date: 2021.9.28

By: Qi Li
Qi Li, Authorized Legal Counsel
Bytedance Inc.

This Assignment may be executed in counterparts.

ASSIGNEE CONFIRMATION

Lemon Inc. acknowledges and agrees to this assignment. The undersigned is an employee and representative of, and is empowered to execute this assignment on behalf of, Lemon Inc.

Date: 2021.5.28

By: 
Qi Li, Authorized Legal Counsel

Lemon Inc.

APPENDIX A

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTORS
1.	P2005614701H	130408-8284.US00	63/106,603	2020-10-28	ON SPLIT PREDICTION	Yue Li, Li Zhang, Bzheng Xu
2.	P2009711901H	130408-8273.US00	63/073,829	2020-09-02	SIGNALLING AND STORAGE OF IMAGES AND IMAGE TRANSITIONS IN A MEDIA FILE	Ye-Kui Wang, Li Zhang
3.	P2009711902H	130408-8273.US01	63/087,458	2020-10-05	SIGNALLING AND STORAGE OF IMAGES AND IMAGE TRANSITIONS IN A MEDIA FILE	Ye-Kui Wang, Li Zhang
4.	P2009721501H	130408-8274.US00	63/079,869	2020-09-17	STORAGE OF PH, APS, DCI AND OPIN AL UNITS OF VVC VIDEO BITSTREAMS IN AN ISOBMFF FILE	Ye-Kui Wang
5.	P2009721502H	130408-8274.US01	63/088,909	2020-10-07	STORAGE OF PH, APS, DCI AND OPIN AL UNITS OF VVC VIDEO BITSTREAMS IN AN ISOBMFF FILE	Ye-Kui Wang
6.	P2009721701H	130408-8275.US00	63/079,892	2020-09-17	SIGNALLING OF DECODER CONFIGURATION INFORMATION AND SUBPICTURE ENTITY GROUPS IN VVC VIDEO FILES	Ye-Kui Wang
7.	P2009721901H	130408-8276.US00	63/079,910	2020-09-17	SIGNALLING OF PICTURE FORMAT INFORMATION IN VVC VIDEO FILES	Ye-Kui Wang
8.	P2009722101H	130408-8277.US00	63/079,933	2020-09-17	CARRIAGE OF SUBPICTURES OF A VVC VIDEO BITSTREAM IN MULTIPLE TRACKS IN AN ISOBMFF FILE	Ye-Kui Wang

147722566.1

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTO RS
9.	P2009722102H	130408- 8277.US01	63/088,126	2020-10-06	CARRIAGE OF SUBPICTURES OF A VVC VIDEO BITSTREAM IN MULTIPLE TRACKS IN AN ISOBMFF FILE	Ye-Kui Wang
10	P2009722201H	130408- 8278.US00	63/079,946	2020-09-17	STORAGE OF SCALABLE VVC VIDEO BITSTREAMS IN MEDIA FILES	Ye-Kui Wang
11	P2009722202H	130408- 8278.US01	63/088,786	2020-10-07	STORAGE OF SCALABLE VVC VIDEO BITSTREAMS IN MEDIA FILES	Ye-Kui Wang
12	P2009734401H	130408- 8281.US00	63/084,963	2020-09-29	SEI MESSAGES FOR SUPPORT OF CROSS RANDOM ACCESS POINT REFERENCING IN VIDEO CODING	Ye-Kui Wang
13	P2009736701H	130408- 8282.US00	63/086,029	2020-09-30	CONVOLUTIONAL NEURAL NETWORK- BASED LOOP FILTER FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
14	P2009736702H	130408- 8282.US01	63/087,113	2020-10-02	CONVOLUTIONAL NEURAL NETWORK- BASED LOOP FILTER FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
15	P2011780201H	130408- 9290.US00	63/141,059	2021-01-25	NEURAL NETWORK- BASED VIDEO COMPRESSION WITH BIT ALLOCATION	Zhaobin Zhang, Li Zhang, Yue Li, Kai Zhang
16	P2011781701H	130408- 8286.US00	63/123,973	2020-12-10	MODEL SELECTION IN NEURAL NETWORK-BASED IN- LOOP FILTER FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
17	P2101819001H	130408- 8289.US00	63/135,451	2021-01-08	VIDEO DECODER INITIALIZATION INFORMATION	Ye-Kui Wang

1A7722566.1

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTO RS
					SIGNALING	
18	P2101834501H	130408- 8301.US00	63/156,726	2021-03-04	NEURAL NETWORK- BASED IN-LOOP FILTER WITH RESIDUAL SCALING FOR VIDEO CODING	Yue Li, Kai Zhang, Li Zhang
19	P2103871001H	130408- 8310.US00	63/171,225	2021-04-06	ON DESIGNING UNIFIED NEURAL NETWORK FOR IN-LOOP FILTERING FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
20	P2103871005H	130408- 8310.US04	63/178,871	2021-04-19	ON DESIGNING UNIFIED NEURAL NETWORK FOR IN- LOOP FILTERING FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
21	P2103893201H	130408- 8311.US00	63/171,415	2021-04-06	NEURAL NETWORK- BASED POST FILTER FOR VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
22	P2103904501H	130408- 8312.US00	63/171,743	2021-04-07	ON NEURAL NETWORK-BASED FILTERING FOR IMAGE/VIDEO CODING	Yue Li, Li Zhang, Kai Zhang
23	P2104918801H	130408- 8319.US00	63/175,421	2021-04-15	SIGNALLING OF INFORMATION FOR SETS OF SUBPICTURE TRACKS	Ye-Kui Wang
24	P2104920801H	130408- 8320.US00	63/176,315	2021-04-18	CONSTRAINTS ON VIDEO ENCODING AND ENCAPSULATION FOR ADAPTIVE VIDEO STREAMING	Ye-Kui Wang
25	P2104931701H	130408- 8322.US00	63/180,834	2021-04-28	SIGNALLING OF PROPERTIES OF AN EXTERNAL STREAM REPRESENTATION	Ye-Kui Wang
26	P2105938001H	130408- 8323.US00	63/185,284	2021-05-06	SIGNALLING OF THE RICE PARAMETER	Ye-Kui Wang

147722566.1

	Bytedance Ref.	Attorney Docket No.	Application No./Patent No.	FILING DATE	TITLE	INVENTO RS
					FOR TRANSFORM SKIP RESIDUAL CODING	
27	P210393070111	130405- 8324 US00	63/191,121	2021-05-20	ON-PADDING METHODS FOR NEURAL NETWORK- BASED IN-LOOP FILTER	Yue Li, Li Zhang, Kai Zhang

1A7722566.1