

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT8066250

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHENG CHEN	10/28/2022
PENG ZHAO	08/02/2022
DI WU	10/31/2022
JUNYUAN XIE	10/24/2022
LONGYIJIA LI	08/02/2022
LONG HUANG	10/28/2022
YIXIANG CHEN	08/02/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DOUYIN VISION CO., LTD.
<b>Street Address:</b>	ROOM B-0035, 2/F, NO.3 BUILDING, NO.30, SHIXING ROAD, SHIJINGSHAN DISTRICT
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100041
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17886746
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	patents@bakerlaw.com
<b>Correspondent Name:</b>	BAKERHOSTETLER
<b>Address Line 1:</b>	2929 ARCH STREET
<b>Address Line 2:</b>	CIRA CENTRE, 12TH FLOOR
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19104
<b>ATTORNEY DOCKET NUMBER:</b>	112704.000469
<b>NAME OF SUBMITTER:</b>	JEAN WANG
<b>SIGNATURE:</b>	/Jean Wang/
<b>DATE SIGNED:</b>	07/19/2023

**Total Attachments: 17**

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COMBINED DECLARATION AND ASSIGNMENT

ASSIGNMENT

Assignor(s):

- 1) Cheng CHEN
- 2) Peng ZHAO
- 3) Di WU
- 4) Junyuan XIE
- 5) Longyijia LI
- 6) Long HUANG
- 7) Yixiang CHEN
- 8) Peng ZHAO

Address:

Jinritoutiao Post Office  
China Satellite Communications Tower  
No.63, Zhichun Road, Haidian District  
Beijing, 100190  
P. R. China

WHEREAS, ASSIGNOR(S) (listed above), are inventor(s) of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 112704.000469 ("the invention"), entitled **METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS** ("the subject application"), which is a continuation application of PCT International Application number PCT/CN2021/080876, filed on March 15, 2021, which claims priority to Chinese patent application number 202010269954.8, filed on April 8, 2020, ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, Douyin Vision Co., Ltd., ASSIGNEE, having a place of business at Room B-0035, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District, Beijing 100041, P. R. China, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

Assignor(s):

- 9) Chenliaohui FANG

COMBINED DECLARATION AND ASSIGNMENT

**Address:**

Jinritoutiao Post Office  
China Satellite Communications Tower  
No.63, Zhichun Road, Haidian District  
Beijing, 100190  
P. R. China

WHEREAS, ASSIGNOR(S) (listed above), are inventor(s) of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **112704.000469** ("the invention"), entitled **METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS** ("the subject application"), which is a continuation application of PCT International Application number **PCT/CN2021/080876**, filed on **March 15, 2021**, which claims priority to Chinese patent application number **202010269954.8**, filed on **April 8, 2020**, ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **Hangzhou Ocean Engine Network Technology Co., Ltd.**, ASSIGNEE, having a place of business at **Room 501, Block 1, 1818-1 Wenyi West Rd, Yuhang Avenue, Yuhang District, Hangzhou, Zhejiang province, P. R. China**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

**Assignor(s):**

10) Liangchao WU

**Address:**

Jinritoutiao Post Office  
China Satellite Communications Tower  
No.63, Zhichun Road, Haidian District  
Beijing, 100190  
P. R. China

WHEREAS, ASSIGNOR(S) (listed above), are inventor(s) of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **112704.000469** ("the invention"), entitled **METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS** ("the subject application"), which is a continuation

COMBINED DECLARATION AND ASSIGNMENT

application of PCT International Application number **PCT/CN2021/080876**, filed on **March 15, 2021**, which claims priority to Chinese patent application number **202010269954.8**, filed on **April 8, 2020**, (“the priority application”). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **Beijing Douyin Information Service Co., Ltd.**, ASSIGNEE, having a place of business at **Room 10A, No.2 Building, No.48, Zhichun Road, Haidian District, Beijing 100080, P. R. China**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

**Assignor(s):**

- 11) Long CHANG
- 12) Lizhe ZHANG

**Address:**

Jinritoutiao Post Office  
China Satellite Communications Tower  
No.63, Zhichun Road, Haidian District  
Beijing, 100190  
P. R. China

WHEREAS, ASSIGNOR(S) (listed above), are inventor(s) of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **112704.000469** (“the invention”), entitled **METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS** (“the subject application”), which is a continuation application of PCT International Application number **PCT/CN2021/080876**, filed on **March 15, 2021**, which claims priority to Chinese patent application number **202010269954.8**, filed on **April 8, 2020**, (“the priority application”). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **Beijing Youzhuju Network Technology Co. Ltd.**, ASSIGNEE, having a place of business at **Room 802, Information Building, 13 Linyin North Road, Pinggu District, Beijing, 101299, P. R. China**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

COMBINED DECLARATION AND ASSIGNMENT

Assignor(s):

13) Xiaobing LIU

Address:

Jinritoutiao Post Office  
China Satellite Communications Tower  
No.63, Zhichun Road, Haidian District  
Beijing, 100190  
P. R. China

WHEREAS, ASSIGNOR(S) (listed above), are inventor(s) of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 112704.000469 ("the invention"), entitled **METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS** ("the subject application"), which is a continuation application of PCT International Application number PCT/CN2021/080876, filed on March 15, 2021, which claims priority to Chinese patent application number 202010269954.8, filed on April 8, 2020, ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **Bytedance Inc.**, ASSIGNEE, having a place of business at 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California 90066, United States, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR(S), hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority

### COMBINED DECLARATION AND ASSIGNMENT

application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND ASSIGNOR(S) HEREBY covenant and agree that ASSIGNOR(S) have full right to convey the entire interest herein assigned, and that ASSIGNOR(S) have not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNOR(S) HEREBY further covenant and agree that ASSIGNOR(S) will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to ASSIGNOR(S) respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

COMBINED DECLARATION AND ASSIGNMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD FOR PROCESSING MODEL PARAMETERS, AND APPARATUS
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As the below named inventor(s), I/we declare that:

This combined declaration and assignment is directed to:

- the attached application, or
- United States application or PCT international application number \_\_\_\_\_, filed \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**Notice to Inventor(s):** A person may not execute this declaration unless that person has reviewed and understands the contents of the above-identified application, including the claims.

**Notice to Inventor(s):** A person may not execute this declaration unless that person is aware of the duty to disclose to the US Patent and Trademark Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.



Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT



Cheng CHEN

2022-10-28

Date

Peng ZHAO

Date

Di WU

Date

Junyuan XIE

Date

Chenliaohui FANG

Date

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

\_\_\_\_\_  
Cheng CHEN

\_\_\_\_\_  
Date

Peng ZHAO  
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Peng ZHAO

2022.8.2  
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Date

\_\_\_\_\_  
Di WU

\_\_\_\_\_  
Date

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Junyuan XIE

\_\_\_\_\_  
Date

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Chenliaohui FANG

\_\_\_\_\_  
Date

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

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**Cheng CHEN**

\_\_\_\_\_  
**Date**

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**Peng ZHAO**

\_\_\_\_\_  
**Date**

*Di Wu*  
\_\_\_\_\_  
**Di WU**

*31/10/2022*  
\_\_\_\_\_  
**Date**

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**Junyuan XIE**

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**Date**

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**Chenliaohui FANG**

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**Date**

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

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Cheng CHEN

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Date

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Peng ZHAO

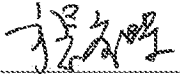
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Di WU

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Date

\_\_\_\_\_  
Junyuan XIE

\_\_\_\_\_  
Date

\_\_\_\_\_  
  
Chenliaohui FANG

\_\_\_\_\_  
2022.11.24.  
Date

COMBINED DECLARATION AND ASSIGNMENT

Longyijia Li  
Longyijia LI

2022.08.02  
Date

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Long HUANG

\_\_\_\_\_  
Date

\_\_\_\_\_  
Liangchao WU

\_\_\_\_\_  
Date

\_\_\_\_\_  
Long CHANG

\_\_\_\_\_  
Date

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Lizhe ZHANG

\_\_\_\_\_  
Date

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

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Longyijia LI

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Date

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Long HUANG

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Long HUANG

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2022-10-28

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Liangchao WU

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Date

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Long CHANG

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Date

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Lizhe ZHANG

\_\_\_\_\_  
Date

COMBINED DECLARATION AND ASSIGNMENT

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Longyijia LI

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Date

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Long HUANG

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Date

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Liangchao WU

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Date

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Long CHANG

\_\_\_\_\_  
Date

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张力哲  
Lizhe ZHANG

\_\_\_\_\_  
2022.11.1  
Date

Application No.: 17/886,746  
Docket No.: 112704.000469

F2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

\_\_\_\_\_  
Yixiang CHEN

\_\_\_\_\_  
Date

Peng ZHAO

\_\_\_\_\_  
Peng ZHAO

2022.10.28

\_\_\_\_\_  
Date

\_\_\_\_\_  
Xiaobing LIU

\_\_\_\_\_  
Date

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The foregoing Combined Declaration and Assignment covers patent application number  
17/886,746, filed on 08-12-2022.

\_\_\_\_\_  
/Aiqing Wang/

Name of Attorney:

Registration No.:

Date of Insertion:



Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P


COMBINED DECLARATION AND ASSIGNMENT

\_\_\_\_\_  
Yixiang CHEN

\_\_\_\_\_  
Date

\_\_\_\_\_  
Peng ZHAO

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Xiaobing LIU

\_\_\_\_\_  
Date 2023-03-30

\*\*\*\*\*

The foregoing Combined Declaration and Assignment covers patent application number  
17/886,746, filed on 08-12-2022.

\_\_\_\_\_  
/Aiqing Wang/

Name of Attorney:

Registration No.:

Date of Insertion:

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

Chen Yixiang  
Yixiang CHEN

2022.8.2  
Date

\_\_\_\_\_  
Peng ZHAO

\_\_\_\_\_  
Date

\_\_\_\_\_  
Xiaobing LIU

\_\_\_\_\_  
Date

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The foregoing Combined Declaration and Assignment covers patent application number  
17/886,746 filed on 08-12-2022.

/Aiqing Wang/

\_\_\_\_\_  
Name of Attorney:  
Registration No.:  
Date of insertion:

Application No.: 17/886,746  
Docket No.: 112704.000469

P2001524301US-BPCA-US202101021P

COMBINED DECLARATION AND ASSIGNMENT

\_\_\_\_\_  
Longyijia LI

\_\_\_\_\_  
Date

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Long HUANG

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Date

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Liangchao WU

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Liangchao WU

\_\_\_\_\_  
2022.9.7  
Date

\_\_\_\_\_  
Long CHANG

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Date

\_\_\_\_\_  
Lizhe ZHANG

\_\_\_\_\_  
Date