

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHU SUN	12/07/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DOUYIN VISION (BEIJING) CO., LTD.
<b>Street Address:</b>	ROOM B-0035, 2/F, NO.3 BUILDING, NO.30
<b>Internal Address:</b>	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>
<b>Application Number:</b>	17884914
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	BYD-0175
<b>NAME OF SUBMITTER:</b>	ADAM SCHLOSSER
<b>SIGNATURE:</b>	/Adam Schlosser, 66,554/
<b>DATE SIGNED:</b>	08/17/2023
<b>Total Attachments: 4</b>	
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Vision#page4.tif

COMBINED DECLARATION AND ASSIGNMENT

ASSIGNMENT

**Assignor(s):**

SUN, Shu

**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 FDBR Ref. No. BYD-0175-01-US-000192 ("the invention"), entitled SEARCH METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM ("the subject application"), which is the national stage of PCT international application number PCT/CN2021/109324, filed on July 29, 2021, which claims priority to Chinese patent application number 202010794468.8, filed on August 10, 2020 ("the priority applications"). Should the subject application be filed in the U.S. Patent and Trademark Office, 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 (Beijing) 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, China**, 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

### COMBINED DECLARATION AND ASSIGNMENT

to claim for such applications in any country the priority rights derived from the priority 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 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION USING  
AN APPLICATION DATA SHEET (37 C.F.R. § 1.76)**

<b>Title of Invention</b>	SEARCH METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM
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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 PCT/CN2021/109324,  
filed July 29, 2021.

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.

Bytedance Ref.: P2004575801US-BPCA  
FDBR Ref.: BYD-0175-01-US-000192

COMBINED DECLARATION AND ASSIGNMENT

Shu Sun

Printed Name in English

孙舒

Inventor's Signature

2022.12.7

Date

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The foregoing Combined Declaration and Assignment covers patent application number \_\_\_\_\_,  
filed on \_\_\_\_\_.

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