

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BEIJING YOUZHUJU NETWORK TECHNOLOGY CO., LTD.	09/03/2020
RECEIVING PARTY DATA	
Name:	BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.
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City:	BEIJING
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17021134
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DATE SIGNED:	10/09/2020
Total Attachments: 3	
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ASSIGNMENT

This agreement ("ASSIGNMENT") is made and entered into by and between **Beijing Youzhuju Network Technology Co. Ltd.**, a Chinese corporation having a place of business at Room 802, Information Building, 13 Linyin North Road, Pinggu District, Beijing 101299, P. R. China (hereinafter referred to as "ASSIGNOR") and **BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.**, a Chinese corporation 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 (hereinafter referred to as "ASSIGNEE").

ASSIGNOR own invention(s) ("INVENTION(S)") disclosed and/or claimed in the U.S. application no. 17/021,134, filed on Sept. 15, 2020, and entitled "LIVENESS DETECTION METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM", which claims priority to the PCT Patent Application No. PCT/CN2019/095080, filed on July 08, 2019, which claims priority to a Chinese Application No. 201811548844.4, filed on December 18, 2018 (collectively hereinafter referred to as "ASSIGNED APPLICATIONS"). To the extent not already included below, ASSIGNOR authorize and request ASSIGNEE and/or its successors and assigns (collectively hereinafter referred to as "ASSIGNEE ENTITY") and authorized legal representatives, including but not limited to, Thomas | Horstemeyer, 3200 Windy Hill Rd. SE, Suite 1600E, Atlanta, GA 30339, to insert any additional information relating to the ASSIGNED APPLICATIONS when known.

U.S. Application No.: 17/021,134 Filed: Sept. 15, 2020

PCT Application No.: PCT/CN2019/095080, Filed: July 08, 2019

Chinese Application No.: 201811548844.4, Filed: December 18, 2018

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR does sell, assign and transfer unto ASSIGNEE and/or ASSIGNEE ENTITY, in any and all countries worldwide (e.g., U.S., China, etc.), all the rights (including the right to sue for past damages), titles, interests, and privileges, a) in and to said INVENTION(S); b) in and to said ASSIGNED APPLICATIONS; c) in and to any application and under any and all applications that may be derived from and/or granted for said INVENTION(S), including but not limited to, all predecessor, continuing and counterpart applications that are provisional, continuation,

continuation-in-part, divisional, reissue, and reexamination applications; and d) in and to any patent and under any and all patents that may be derived from and/or granted for said INVENTION(S), including but not limited to, Patents, Utility Models, Industrial Models, Petty Patents, Design Patents, Design Registrations, Industrial Designs, Unregistered Design Rights, Copyrights, and legal equivalents, reissues, extensions and renewals thereof (either one or all (a)-(d) are collectively hereinafter referred to as "PROPERTIES").

ASSIGNOR agrees and authorize that ASSIGNEE and/or ASSIGNEE ENTITY may apply, receive, and/or maintain PROPERTIES in its own name in any and all countries worldwide, and to invoke and claim for PROPERTIES without further authorization from ASSIGNOR, any and all benefits, including but not limited to, the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR authorizes and requests the U.S. Patent and Trademark Office (USPTO) and/or any other proper officer or agency of any jurisdiction to record this ASSIGNMENT and issue, in and to U.S. and/or any and all countries worldwide, said INVENTION(S), said ASSIGNED APPLICATIONS, and said PROPERTIES to ASSIGNEE and/or ASSIGNEE ENTITY or to such nominee as ASSIGNEE and/or ASSIGNEE ENTITY may designate.

ASSIGNOR warrants and covenants that ASSIGNOR either had or does have the full right to convey their entire interest herein assigned at the time of the sale, assignment and/or transfer. ASSIGNOR warrants and covenants that ASSIGNOR has not executed and will not execute any conflicting sale, assignment and/or transfer.

ASSIGNOR consents that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any document which may be required in U.S. and/or any and all countries in proof of the right of ASSIGNEE and/or ASSIGNEE ENTITY for said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES.

ASSIGNOR agrees to communicate to ASSIGNEE and/or ASSIGNEE ENTITY and its authorized legal representatives any facts known to ASSIGNOR respecting said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES, to execute and/or sign all lawful documents and make all rightful oaths and declarations relating to said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES, sign all lawful documents which ASSIGNEE and/or ASSIGNEE ENTITY and its authorized legal representatives shall consider desirable for aiding in securing and maintaining proper protection for said INVENTION(S), said ASSIGNED APPLICATIONS,

and/or said PROPERTIES, and to testify in any judicial and/or administrative proceeding and generally do everything possible to aid ASSIGNEE and/or ASSIGNEE ENTITY and its authorized legal representatives to obtain and enforce said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE and/or ASSIGNEE ENTITY but at ASSIGNEE's and/or ASSIGNEE ENTITY's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES, and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE and/or ASSIGNEE ENTITY or its authorized legal representatives to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to said INVENTION(S), said ASSIGNED APPLICATIONS, and/or said PROPERTIES, if not known as of the date of execution of this document.

ASSIGNOR accepts the terms and conditions of this ASSIGNMENT:

Beijing Youzhuju Network Technology Co. Ltd.

3/9/2020
Date

Meixin Li
Meixin LI, Authorized Legal Counsel

ASSIGNEE accepts the terms and conditions of the ASSIGNMENT:

BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.

3/9/2020
Date

Meixin Li
Meixin LI, Authorized Legal Counsel