

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SMARTISAN DIGITAL CO., LTD. | 01/20/2019 |
| RECEIVING PARTY DATA | |
| Name: | BEIJING BYTEDANCE NETWORK TECHNOLOGY CO LTD. |
| Street Address: | ROOM B-0035, 2/F, NO. 3 BUILDING |
| Internal Address: | NO. 30 SHIXING ROAD, SHIJINGSHAN DISTRICT |
| City: | BEIJING |
| State/Country: | CHINA |
| Postal Code: | 100041 |
| PROPERTY NUMBERS Total: 7 | |
| Property Type | Number |
| Application Number: | 14779777 |
| Application Number: | 14778207 |
| Application Number: | 29526973 |
| Application Number: | 14781111 |
| Application Number: | 14898949 |
| Application Number: | 14787926 |
| Application Number: | 29538760 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | MICHAEL MAURIEL |
| SIGNATURE: | /Michael Mauriel/ |

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| DATE SIGNED: | 02/04/2019 |
| Total Attachments: 2 source=10314X000XX00_Assignment#page1.tif source=10314X000XX00_Assignment#page2.tif | |

PATENT ASSIGNMENT

WHEREAS, SMARTISAN DIGITAL CO., LTD., a limited company with a mailing address at Floor 7, Motorola Building, No.1 WangJing East Road, Chaoyang District, Beijing 100102, China (hereinafter "ASSIGNOR"), is the owner of right, title and interest in and to the Patents and Patent Applications shown on Schedule A, attached hereto (Collectively referred to as "Patent Rights").

WHEREAS, BEIJING BYTEDANCE NETWORK TECHNOLOGY CO LTD., a limited company with a mailing address at Room B-003S, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District, Beijing 100041, China (hereinafter "ASSIGNEE") desires to secure and confirm the assignment from ASSIGNOR of ASSIGNOR's entire, right, title and interest in, to and under the said Patent Rights;

NOW THEREFORE, for good and valuable consideration, the receipt whereof is acknowledged, ASSIGNOR hereby sells, assigns, transfers, conveys and delivers unto said ASSIGNEE all of its right, title and interest in and to the Patent Rights along with all of its rights to forms of intellectual property protection, including, without limitation, patents, utility models, inventor certificates and designs which may be granted or which have been granted for the invention embodied in the Patent Rights, and all divisions, renewals, continuations, and continuations-in-part thereof, in the United States and in any country or countries foreign to the United States and all extensions, renewals and reissues thereafter; the same to be held and enjoyed by the said ASSIGNEE for its own use and behalf, and for its legal representatives and assigns, to the full end of the term for which said Patent Rights are granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment not been made, together with all income, royalties, damages, and payments hereafter due or payable to ASSIGNOR with respect to the Patent Rights, including without limitation unpaid damages and payment for past, present, and future infringements of Patent Rights, and all rights to sue and recover damages and payments for past, present, and future infringements of the Patent Rights, including the right to fully and entirely replace ASSIGNOR in all matters related thereto. For avoidance of doubt, this assignment includes assignment of the right to claim priority to all applications listed on Schedule A, attached hereto.

In furtherance of this instrument, ASSIGNOR hereby acknowledges that, from the date of assignment, and from that date forward, ASSIGNEE has succeeded to all right, title, interest and standing of ASSIGNOR to: (a) receive all rights and benefits pertaining to the Patent Rights; (b) institute and prosecute all suits and proceedings and take all actions that ASSIGNEE, in its sole discretion, may deem necessary or proper to collect, assert, or enforce any claim, right, or title of any kind in and to any and all the Patent Rights; and (c) defend and comprise any and all such actions, suits, or proceedings relating to such Patent Rights and do all other such acts and things in relation thereto as ASSIGNEE, in its sole discretion, deem advisable. ASSIGNEE hereby acknowledges and confirms receipt and acceptance of all rights conveyed by this assignment.

SIGNATURE OF ASSIGNOR

SIGNATURE OF ASSIGNEE

The undersigned, whose title is supplied below, is authorized to act on behalf of ASSIGNOR and executes this PATENT ASSIGNMENT on behalf of ASSIGNOR.

The undersigned, whose title is supplied below, is authorized to act on behalf of ASSIGNEE and executes this PATENT ASSIGNMENT on behalf of ASSIGNEE.

By: Zou wei

By: YAN, Shou ✓

Name: ZOU Wei

Name: YAN, Shou

Title: Vice President

Title: Director

Date: Jan. 20, 2019

Date: Jan. 20, 2019

SCHEDULE A

| APPLICATION NUMBER | FILING DATE |
|--------------------|-------------|
| 14/779,777 | 2013-12-30 |
| 14/778,207 | 2013-12-30 |
| 29/526,973 | 2015-05-14 |
| 14/781,111 | 2013-12-31 |
| 14/898,949 | 2014-05-23 |
| 14/787,926 | 2014-04-25 |
| 29/538,760 | 2015-09-08 |