PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---|----------------|
| BAIDU ONLINE NETWORK TECHNOLOGY (BEIJING) CO., LTD. | 07/21/2022 |

RECEIVING PARTY DATA

| Name: | BEIJING BAIDU NETCOM SCIENCE TECHNOLOGY CO., LTD. | |
|-------------------|---|--|
| Street Address: | 2/F BAIDU CAMPUS, NO. 10 | |
| Internal Address: | SHANGDI 10TH STREETH, HAIDIAN DISTRICT | |
| City: | BEIJING | |
| State/Country: | CHINA | |
| Postal Code: | 100085 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|----------|
| Patent Number: | 10078508 |

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 130254.407USPC |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | TIMOTHY L. BOLLER |
| SIGNATURE: | /Timothy L. Boller/ |
| DATE SIGNED: | 08/01/2022 |

Total Attachments: 2

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PATENT 507414635 REEL: 060683 FRAME: 0931

ASSIGNMENT

WHEREAS.

| Corporation Name | Address |
|------------------|---|
| 3 | 3/F Baidu Campus, No. 10, Shangdi 10 th Street, Haidian District, Beijing 100085, China |

(hereinafter referred to as ASSIGNOR), having a place of business at the address listed above, is the owner of record of an invention entitled "INFORMATION PROVIDING METHOD, DEVICE, AND APPARATUS," as described and claimed in United States Letters Patent No. 10,078,508, issued September 18, 2018;

WHEREAS.

| Corporation Name | Address | |
|-------------------------|--|--|
| Beijing Baidu Netcom | 2/F Baidu Campus, No. 10, Shangdi 10th Street, Haidian | |
| Science Technology Co., | District, Beijing 100085, China | |
| Ltd. | | |

(hereinafter referred to as ASSIGNEE), having a place of business at the address listed above, is desirous of acquiring the entire right, title and interest in and to said letters patent;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said letters patent including any extensions or adjustments in term thereof and in any and all divisions, reissues and continuations thereof, including the right to sue and collect damages for past and present infringement of said letters patent; said letters patent to be held and enjoyed by ASSIGNEE for its use and benefit and of its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR agrees to execute all instruments and documents required for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

PATENT REEL: 060683 FRAME: 0932

| | • | Baidu Online Network Technology (Beijing) Co., Ltd. |
|----------|--------|---|
| July 21, | 2022 | Qui Lincfling (Assignor) |
| Date | | (Signatory Signature) |
| | | CUI, Lingling / Director of Patent Strategy Department (Assignor Signatory Name, Title) |
| | | |
| | | Beijing Baidu Netcom Science Technology Co., |
| | | Ltd. |
| July 21 | , 2022 | Qui Lingling (Assignee) |
| Date | | (Signature of Assignee) |
| | | CUI, Lingling / Director of Patent Strategy Department (Assignee Signatory Name, Title) |

Docket No. 130254.407USPC | 8661858_1

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PATENT REEL: 060683 FRAME: 0933