

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD. | 09/22/2020 |
| RECEIVING PARTY DATA | | |
| Name: | BAIDU ONLINE NETWORK TECHNOLOGY (BEIJING) CO., LTD. | |
| Street Address: | 3/F BAIDU CAMPUS, NO. 10 | |
| Internal Address: | SHANGDI 10TH STREET, HAIDIAN DISTRICT | |
| City: | BEIJING | |
| State/Country: | CHINA | |
| Postal Code: | 100085 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 16233834 |
| CORRESPONDENCE DATA | | |
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| NAME OF SUBMITTER: | BOBBY SOLTANI | |
| SIGNATURE: | / Bobby Soltani / | |
| DATE SIGNED: | 11/23/2020 | |
| Total Attachments: 2 | | |
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| source=BeijingBaiduBaiduOnlineAssignment#page2.tif | | |

ASSIGNMENT

WHEREAS,

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

(hereinafter referred to as ASSIGNOR), having a place of business at the address listed above, is the owner of an invention entitled "METHOD AND APPARATUS FOR CREATING MAP AND POSITIONING MOVING ENTITY," as described and claimed in the specification for which an application for United States letters patent was filed on December 27, 2018 and assigned Application No. 16/233,834;

WHEREAS,

| Corporation Name | Address |
|---|--|
| Baidu Online Network Technology (Beijing) Co., Ltd. | 3/F Baidu Campus, No. 10, Shangdi 10 th Street, Haidian District, Beijing 100085, China |

(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 the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

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, or confirms its previous sale, assignment, and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its

successors and assigns for their use and benefit and of their 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 hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Assignee's counsel is authorized to insert the official filing date and application number information when it becomes available.

Beijing Baidu Netcom Science and Technology
Co., Ltd.

September 22, 2020
Date

Lingling Cui (Assignor)
(Signatory Signature)

Lingling Cui, Director of Patent Strategy Department
(Assignor Signatory Name, Title)

Baidu Online Network Technology (Beijing)
Co., Ltd.

September 22, 2020
Date

Lingling Cui (Assignee)
(Signatory Signature)

Lingling Cui, Director of Patent Strategy Department
(Assignee Signatory Name, Title)

Docket No. 140196/430USPC [Assignment - Baidu Online Network to Beijing Baidu Netcom (Seed IP Ref. 140196/430USPC)]