

## 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>
SHUANG ZHANG	10/30/2019
XIANG LIU	10/30/2019
BIN GAO	10/30/2019
XIAOXING ZHU	11/04/2019
JINGJING XUE	11/04/2019
FAN YANG	11/04/2019
JUNPING WANG	11/04/2019
CHENGFA WANG	11/04/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.
<b>Street Address:</b>	2/F BAIDU CAMPUS, NO. 10
<b>Internal Address:</b>	SHANGDI 10TH STREET, HAIDIAN DISTRICT
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100085
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16915541
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)682-6031
<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>	
<b>Phone:</b>	2066224900
<b>Email:</b>	erikat@seedip.com
<b>Correspondent Name:</b>	BOBBY SOLTANI
<b>Address Line 1:</b>	SEED IP LAW GROUP LLP
<b>Address Line 2:</b>	701 FIFTH AVENUE, SUITE 5400
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98104
<b>ATTORNEY DOCKET NUMBER:</b>	140196.484
<b>NAME OF SUBMITTER:</b>	BOBBY SOLTANI

PATENT

<b>SIGNATURE:</b>	/ Bobby Soltani /
<b>DATE SIGNED:</b>	06/30/2020
<b>Total Attachments: 4</b> source=140196484_Assignment#page1.tif source=140196484_Assignment#page2.tif source=140196484_Assignment#page3.tif source=140196484_Assignment#page4.tif	

**DECLARATION AND ASSIGNMENT STATEMENT**

As a below named inventor, I hereby declare that:

I believe I am the original joint inventor of a claimed invention in the application for which this declaration is being submitted and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR DETECTING OBSTACLE

(hereinafter referred to as INVENTION), the application of which is attached hereto unless the following is checked

( X) filed on 29-JUN-2020 as United States Application No. 16915541 ,  
or was filed on \_\_\_\_\_ as PCT International Application, No. \_\_\_\_\_ .

The above-identified application claims the priority of Chinese Patent Application No. 201911024230.0, entitled “METHOD AND APPARATUS FOR DETECTING OBSTACLE” (in Chinese “障碍物检测方法和装置”) filed on October 25, 2019,

The above-identified application was made or authorized to be made by me.

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.

I hereby authorize the firm of Insight Intellectual Property Attorneys, whose full post office address is 48A Zhichun Road, 19th Floor, Beijing, 100098, China, or the agent(s) of record in the United States to insert above the serial number and filing date of said application when known.

WHEREAS, we, Shuang Zhang; Xiang Liu; Bin Gao; Xiaoxing Zhu; Jingjing Xue; Fan Yang; Junping Wang; Chengfa Wang (hereinafter referred to as ASSIGNORS), all having a mailing address of 2/F Baidu Campus, No. 10, Shangdi 10th Street, Haidian District Beijing 100085, China, are the joint inventors of the INVENTION;

WHEREAS, BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD. (hereinafter referred to as ASSIGNEE), having a usual place of business at 2/F Baidu Campus, No. 10, Shangdi 10th Street, Haidian District Beijing 100085, China, 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;

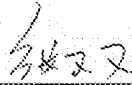
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said INVENTION, said application and any and all letters patent 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 divisions, reissues and continuations thereof, 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 ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said INVENTION to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States 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.

FURTHER, ASSIGNORS agree that ASSIGNORS will communicate to said ASSIGNEE or its representatives any facts known to us respecting said INVENTION, and testify in any legal proceeding, sign all lawful papers, execute all papers relating to a continuation,

division, continuation-in-part, extension, non-provisional or substitute thereof, including any corresponding right to claim priority from the patent application in the United States and its territorial possessions and any reissue, re-examination or extension of said letters patent, execute all necessary assignment papers to cause any and all of said letters patents to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said INVENTION in the United States and its territorial possessions.


FURTHER, ASSIGNORS and ASSIGNEE hereby authorize the firm of Insight Intellectual Property Attorneys, whose full post office address is 48A Zhichun Road, 19<sup>th</sup> Floor, Beijing, 100098, China, or the agent(s) of record in the United States to correct errors in this Assignment, or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in the United States Patent and Trademark Office.

Legal Name of Inventor: Shuang Zhang

  
\_\_\_\_\_  
Signature of Inventor

Oct. 30. 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Xiang Liu

  
\_\_\_\_\_  
Signature of Inventor

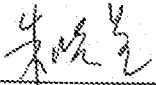
Oct. 30. 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Bin Gao

  
\_\_\_\_\_  
Signature of Inventor


Oct. 30. 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Xiaoxing Zhu

  
\_\_\_\_\_  
Signature of Inventor


Nov. 4, 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Jingjing Xue

  
\_\_\_\_\_  
Signature of Inventor

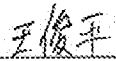
Nov. 4, 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Fan Yang

  
\_\_\_\_\_  
Signature of Inventor

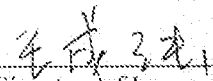
Nov. 4, 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Junping Wang

  
\_\_\_\_\_  
Signature of Inventor

Nov. 4, 2019  
\_\_\_\_\_  
Date

Legal Name of Inventor: Chengfa Wang

  
\_\_\_\_\_  
Signature of Inventor

Nov. 6, 2019  
\_\_\_\_\_  
Date