

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5603040

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JINYUN ZHOU	04/30/2019
RUNXIN HE	05/01/2019
QI LUO	05/01/2019
JINGHAO MIAO	05/01/2019
JIANGTAO HU	05/01/2019
YU WANG	05/01/2019
JIAXUAN XU	05/01/2019
SHU JIANG	05/01/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BAIDU USA LLC
<b>Street Address:</b>	1195 BORDEAUX DRIVE
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94809
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16399538
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	samra.amdemichael@wbd-us.com, bstzkgsreport@wbd-us.com, ipdocketing@wbd-us.com
<b>Correspondent Name:</b>	WOMBLE BOND DICKINSON (US) LLP
<b>Address Line 1:</b>	1841 PAGE MILL ROAD SUITE 200
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94304
<b>ATTORNEY DOCKET NUMBER:</b>	9922P316
<b>NAME OF SUBMITTER:</b>	SAMRA AMDEMICHAEL
<b>SIGNATURE:</b>	/Samra Amdemichael/

<b>DATE SIGNED:</b>	07/03/2019
<b>Total Attachments: 4</b> source=P316#page1.tif source=P316#page2.tif source=P316#page3.tif source=P316#page4.tif	

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 209922.0344.0 (P316)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned,

**JINYUN ZHOU, RUNXIN HE, QI LUO, JINGHAO MIAO, JIANGTAO HU,  
YU WANG, JIAXUAN XU, SHU JIANG**

hereby sell, assign, and transfer to

**Baidu USA LLC**

a limited liability company of California, having a principal place of business at 1195 Bordeaux Dr., Sunnyvale, CA 94089 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

**A NEURAL NETWORK APPROACH FOR PARAMETER LEARNING TO SPEED UP  
PLANNING FOR COMPLEX DRIVING SCENARIOS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number \_\_\_\_\_ filed \_\_\_\_\_

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents

and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

4/30 2019  
Date

Jinyun Zhou  
Signature

JINYUN ZHOU

05/01 2019  
Date

Runxin He  
Signature

RUNKIN HE

04/30 2019  
Date

Qi Luo  
Signature

QI LUO

05/01 2019  
Date

Jinghao Miao  
Signature

JINGHAO MIAO

5/1 2019  
Date

Jiangtao Hu  
Signature

JIANGTAO HU

05/01 2019  
Date

Yu Wang  
Signature

YU WANG

04/30 2019  
Date

Jiaxuan Xu  
Signature

JIAXUAN XU

04/30 2019  
Date

Shu Jiang  
Signature

SHU JIANG

Assignment Document Return Address:  
WOMBLE BOND DICKINSON (US) LLP  
Attn: IP Docketing  
P.O. Box 7037  
Atlanta, GA 30357-0037  
(408) 341-3000