

## 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>
JUN ZHAO	05/09/2017
KANG LIU	05/09/2017
SHIZHU HE	05/09/2017
YIBO ZHANG	05/09/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI TECHNOLOGIES CO.,LTD.
<b>Street Address:</b>	HUAWEI ADMINISTRATION BUILDING
<b>Internal Address:</b>	BANTIAN, LONGGANG DISTRICT,
<b>City:</b>	SHENZHEN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518129
<b>Name:</b>	INSTITUTE OF AUTOMATION, CHINESE ACADEMY OF SCIENCES
<b>Street Address:</b>	INSTITUTE OF AUTOMATION, CHINESE ACADEMY OF SCIENCES, ZHONGGUANCUN EAST ROAD 95
<b>Internal Address:</b>	HAI DIAN DISTRICT
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100190
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15472279
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(469)277-5901
<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>	uspatent@huawei.com
<b>Correspondent Name:</b>	HUAWEI TECHNOLOGIES CO., LTD. C/O SHUANG
<b>Address Line 1:</b>	BUILDING G1-2, HUAWEI INDUSTRIAL BASE,
<b>Address Line 2:</b>	BANTIAN, LONGGANG DISTRICT,
<b>Address Line 4:</b>	SHENZHEN, CHINA 518129

PATENT

<b>ATTORNEY DOCKET NUMBER:</b>	84207873US04
<b>NAME OF SUBMITTER:</b>	LIWEN LONG
<b>SIGNATURE:</b>	/Liwen Long/
<b>DATE SIGNED:</b>	11/28/2017
<b>Total Attachments: 4</b> source=84207873US04_asg#page1.tif source=84207873US04_asg#page2.tif source=84207873US04_asg#page3.tif source=84207873US04_asg#page4.tif	

**ASSIGNMENT**

**WHEREAS, WE,**

Jun ZHAO  
Institute of Automation, Chinese  
Academy of Sciences,  
Zhongguancun East Road 95,  
Haidian District, 100190, Beijing  
P.R. CHINA; and

Kang LIU  
Institute of Automation, Chinese  
Academy of Sciences,  
Zhongguancun East Road 95,  
Haidian District, 100190, Beijing  
P.R. CHINA; and

Shizhu HE  
Institute of Automation, Chinese  
Academy of Sciences,  
Zhongguancun East Road 95,  
Haidian District, 100190, Beijing  
P.R. CHINA; and

Yibo ZHANG  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA;

have invented and own a certain invention entitled:  
**METHOD AND DEVICE FOR PARSING QUESTION IN KNOWLEDGE BASE**  
for which invention we have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on 3/29/2017, under U.S. Application No. 15472279 and

**WHEREAS,**

**Huawei Technologies Co., Ltd., of Huawei Administration Building, Bantian,  
Longgang District, Shenzhen, 518129, Guangdong, P.R. China;**

and

**Institute of Automation, Chinese Academy of Sciences, of Institute of Automation,  
Chinese Academy of Sciences, Zhongguancun East Road 95, Haidian District,  
100190, Beijing P.R. CHINA.**

hereinafter referred to as Assignees, are desirous of acquiring the entire domestic and  
foreign right, title, and interest in and under the invention described in the patent application.

**NOW, THEREFORE,** for good and valuable considerations, the receipt and sufficiency of  
which are hereby acknowledged, we assign and transfer to the Assignees and the Assignees'  
legal representatives, successors and assigns the full and exclusive rights in and to the invention  
in the United States and every foreign country and the entire right, title, and interest in and to  
the patent application and other such applications (e.g., provisional applications,  
non-provisional applications, continuations, continuations-in-part, divisionals, reissues,  
reexaminations, National phase applications, including petty patent applications, and utility  
model applications) that may be filed in the United States and every foreign country on the  
invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that  
may issue thereon, and we do hereby authorize and request the Commissioner of Patents to  
issue U.S. patents to the above-mentioned Assignees agreeably with the terms of this  
assignment document.


In re Appln. of ZHAO et al.  
Attorney Docket No. \_\_\_\_\_

**WE HEREBY AUTHORIZE** the Assignees to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.


**WE DO HEREBY COVENANT** and agree with the Assignees that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignees, execute such additional assignments and other writings and do such additional acts as the Assignees may deem necessary or desirable to perfect the Assignees' enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date May 9, 2017

  
Jun ZHAO

Date May 9, 2017

  
Kang LIU

Date May 9, 2017

  
Shizhu HE

Date \_\_\_\_\_

\_\_\_\_\_  
Yibo ZHANG

ASSIGNMENT

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Jun ZHAO  
Institute of Automation, Chinese  
Academy of Sciences,  
Zhongguancun East Road 95,  
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in the United States and every foreign country and the entire right, title, and interest in and to  
the patent application and other such applications (e.g., provisional applications,  
non-provisional applications, continuations, continuations-in-part, divisionals, reissues,  
reexaminations, National phase applications, including petty patent applications, and utility  
model applications) that may be filed in the United States and every foreign country on the  
invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that  
may issue thereon, and we do hereby authorize and request the Commissioner of Patents to  
issue U.S. patents to the above-mentioned Assignees agreeably with the terms of this  
assignment document.

**WE HEREBY AUTHORIZE** the Assignees to insert in this assignment document the  
filing date and application number of the application if the date and number are unavailable at  
the time this document is executed.

**WE DO HEREBY COVENANT** and agree with the Assignees that we will not execute any  
writing or do any act whatsoever conflicting with the terms of this assignment document set  
forth herein, and that we will at any time upon request, without further or additional

In re Appln. of ZHAO et al.  
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consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_ Jun ZHAO

Date \_\_\_\_\_ Kang LIU

Date \_\_\_\_\_ Shizhu HE

Date May 9, 2017 Yibo ZHANG  
Yibo ZHANG