

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YAOHUA LIAO	07/19/2016
XIAOWEI LI	07/19/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BEIJING JINGDONG SHANGKE INFORMATION TECHNOLOGY CO, LTD.
<b>Street Address:</b>	WESTERN 1-4TH FLOORS & EASTERN 1-4TH FLOORS, BUILDING NO. 11
<b>Internal Address:</b>	FOURTH DISTRICT OF WEST CEDAR CREATIVE PARK, XINGSHIKOU ROAD NO. 65, HAIDIAN DISTRICT
<b>City:</b>	BEIJING 100195
<b>State/Country:</b>	CHINA
<b>Name:</b>	BEIJING JINGDONG CENTURY TRADING CO., LTD.
<b>Street Address:</b>	ROOM B168, BUILDING 2, NO. 99 KECHUANG 14TH STREET
<b>Internal Address:</b>	BEIJING ECONOMIC-TECHNOLOGICAL DEVELOPMENT AREA
<b>City:</b>	BEIJING 100176
<b>State/Country:</b>	CHINA
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15110564
<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>Phone:</b>	414-271-6560
<b>Email:</b>	mkeipdocket@michaelbest.com
<b>Correspondent Name:</b>	MICHAEL BEST & FRIEDRICH LLP (MKE)
<b>Address Line 1:</b>	100 E WISCONSIN AVENUE
<b>Address Line 2:</b>	SUITE 3300
<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202
<b>ATTORNEY DOCKET NUMBER:</b>	011462-9036-US00
<b>NAME OF SUBMITTER:</b>	MICHAEL R. LANGER

<b>SIGNATURE:</b>	/michael r. langer/
<b>DATE SIGNED:</b>	08/02/2016
<b>Total Attachments: 2</b> source=19443415_011462-9036-US00_-_ASSIGNMENT_-_as_filed#page1.tif source=19443415_011462-9036-US00_-_ASSIGNMENT_-_as_filed#page2.tif	

## **ASSIGNMENT**

### **Assignors:**

**Yaohua LIAO and Xiaowei LI**, Western 1-4th Floors & Eastern 1-4th Floors, Building No. 11, Fourth District of West Cedar Creative Park, Xingshikou Road No. 65, Haidian District, Beijing 100195, China

### **Assignees:**

**BEIJING JINGDONG SHANGKE INFORMATION TECHNOLOGY CO, LTD.**, Western 1-4th Floors & Eastern 1-4th Floors, Building No. 11, Fourth District of West Cedar Creative Park, Xingshikou Road No. 65, Haidian District, Beijing 100195, China,

-and-

**BEIJING JINGDONG CENTURY TRADING CO., LTD.**, Room B168, Building 2, No. 99 Kechuang 14th Street, Beijing Economic-Technological Development Area, Beijing 100176, China

Pursuant to Assignors' obligation to Assignees, and for other valuable and sufficient consideration, the receipt whereof is hereby acknowledged, Assignors assign to Assignees, at 100%, and we confirm our obligation to and hereby sell, assign and convey, unto Assignees, its successors and assigns, our entire right, title and interest

(1) in and to inventions described in a patent application titled "METHOD AND SYSTEM FOR SCHEDULING WEB CRAWLERS ACCORDING TO KEYWORD SEARCH", United States National Stage Patent Application No. 15/110,564 filed July 8, 2016 (Atty. File No. 011462-9036-US00), the specification of which was filed with our authority on January 9, 2015 as International Patent Application No. PCT/CN2015/070475 (hereinafter the "PCT application"), which claims foreign priority benefits to Chinese Patent Application No. 201410011079.8 filed January 9, 2014, and

(2) in and to the PCT application, in and to all other U.S. patent applications (including PCT national phase, divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon said inventions or claiming the benefit of the PCT application, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted.

We hereby authorize the assignee or attorney of record to insert in the appropriate place in this document the application number of our application after execution of this Assignment.

We hereby agree that we will, upon demand of Assignees, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed by Assignees, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignees, its successors and assigns, and not by us.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignees.

July 19, 2016

Date

Yaohua LIAO

Yaohua LIAO

July 19, 2016

Date

Xiaowei LI

Xiaowei LI