

## 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>
LI YU	08/28/2017
SHICHUN YI	08/28/2017
SHIYU SONG	08/28/2017
FANGFANG DONG	08/28/2017
BAOQIANG XU	08/28/2017
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<b>Street Address:</b>	3/F BAIDU CAMPUS, NO. 10, SHANGDI 10TH STREET
<b>Internal Address:</b>	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:	15800441
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<b>ATTORNEY DOCKET NUMBER:</b>	078291-31USPT
<b>NAME OF SUBMITTER:</b>	JUSTIN D. SWINDELLS
<b>SIGNATURE:</b>	/Justin D. Swindells - Reg. No. 48,733/
<b>DATE SIGNED:</b>	11/01/2017
<b>Total Attachments: 3</b>	

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ASSIGNMENT

WHEREAS, we, Li Yu, Shichun Yi, Shiyu Song, Fangfang Dong and Baoqiang Xu (hereinafter referred to as ASSIGNORS), all having a mailing address of 3/F Baidu Campus, No. 10, Shangdi 10th Street, Haidian District, Beijing 100085, China, are the joint inventors of an invention entitled "METHOD AND APPARATUS FOR CONSTRUCTING REFLECTANCE MAP," (in Chinese "反射值地图构建方法和装置") as described and claimed in the specification for which an application for Chinese letters patent was filed on August 15, 2017 and assigned Application No. CN 201710697728.8;

WHEREAS, BAIDU ONLINE NETWORK TECHNOLOGY (BEIJING) CO., LTD. (hereinafter referred to as ASSIGNEE), having a usual place of business at 3/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 Limited, whose full post office address is 19 A, Tower A, InDo Building, No. 48A Zhichun Road, Haidian District, Beijing, China 100098, 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.

08/28/2017

Date

Li Yu

Li Yu

08/28/2017

Date

Shichun Yi

Shichun Yi

08/25/2017

Date

Shiyu Song

Shiyu Song

08/28/2017

Date

Fangfang Dong

Fangfang Dong

08/28/2017

Date

Baoqiang Xu

Baoqiang Xu