

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RUNYU SHI	11/18/2019
JINLONG LI	11/18/2019
RECEIVING PARTY DATA	
Name:	BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16688913
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DATE SIGNED:	11/19/2019
Total Attachments: 3	
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source=PIOE3194636US-BF1803592US-DeclAssign-P#page2.tif	
source=PIOE3194636US-BF1803592US-DeclAssign-P#page3.tif	

**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN APPLICATION DATA SHEET
(37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE**

Title of Invention	TERMINAL, METHOD AND DEVICE FOR RECOGNIZING OBSTACLE, AND STORAGE MEDIUM
<p>As a below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or</p> <p style="padding-left: 100px;"><input type="checkbox"/> United States application or PCT international application number _____ filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p>	

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to BEIJING XIAOMI MOBILE SOFTWARE CO., LTD. (the "Assignee"), having a place of business at No. 018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian Dist, Beijing 100085, CN, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to Chinese Patent Application No. 201910493224.3 filed on 2019-06-06; such application(s) and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs; assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of Syncoda LLC the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

LEGAL NAME OF INVENTOR	
Inventor: <u>SHI, Runyu</u>	Date: <u>Nov. 18th, 2017</u>
Signature: <u>SHI, Runyu</u>	

LEGAL NAME OF INVENTOR	
Inventor: <u>LI, Jinlong</u>	Date: <u>11/18/2019</u>
Signature: <u>Li, jinlong</u>	