

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4038925

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMAS EUGENE DOUGHERTY	08/23/2016
BAHRAM OMIDFAR	08/24/2016
HONGBING GU	08/23/2016
HONGYU WANG	08/23/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FMR LLC
<b>Street Address:</b>	245 SUMMER STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02210
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15242016
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)526-9899
<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>	6175269600
<b>Email:</b>	oandrews@proskauer.com
<b>Correspondent Name:</b>	PROSKAUER ROSE LLP
<b>Address Line 1:</b>	ONE INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	FID-153
<b>NAME OF SUBMITTER:</b>	PATRICK J. NIEDERMEIER
<b>SIGNATURE:</b>	/Patrick J. Niedermeier/
<b>DATE SIGNED:</b>	09/06/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 8</b>	
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source=FID.153 Assignment#page8.tif

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTORS:	Dougherty <i>et al.</i>	CONFIRMATION NO.:	3679
APPLICATION NO.:	15/242,016	FILING DATE:	August 19, 2016
TITLE:	INTELLIGENT MOBILE DEVICE TEST FIXTURE		

**DECLARATION PURSUANT TO 37 C.F.R. § 1.63 AND ASSIGNMENT**

**I. DECLARATION**

As the below named inventor, I hereby make the following declarations with respect to the above-identified patent application attached hereto:

The above-identified application was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application;

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims;

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application; and

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.

**II. ASSIGNMENT**

WHEREAS, I, Thomas Eugene Dougherty, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, FMR LLC, (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 245 Summer Street, Boston, Massachusetts, 02210, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

industrial property by filing any such applications for letters patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all letters patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all letters patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein.

I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications.

I hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved.

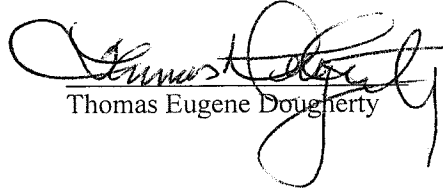
I hereby authorize and request the Director of the United States Patent and Trademark Office to issue such letters patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

### III. SIGNATURE BLOCK

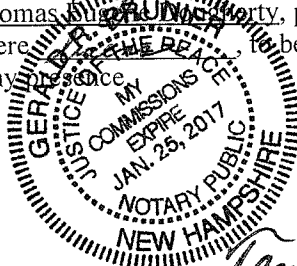
*IN TESTIMONY WHEREOF*, I have hereunto set my hand-and affixed my seal on the date set forth below.

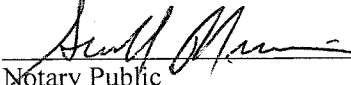
NEW HAMPSHIRE  
State/Commonwealth of )  
County of Hillsborough ) ss

Inventor:

  
Thomas Eugene Dougherty

On this 23 day of August, 2016 before me, the undersigned notary public, personally appeared Thomas Eugene Dougherty, proved to me through satisfactory evidence of identification, which were properly presented, to be the person whose name is signed on the preceding or attached document in my presence.



  
Notary Public  
My Commission Expires: 1/23/17

#### WITNESS

Witness Signature: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Witness Date: \_\_\_\_\_

Tammy E. Dumont  
Tammy E. Dumont  
8-23-2016

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS: Dougherty *et al.* CONFIRMATION NO.: 3679  
APPLICATION NO.: 15/242,016 FILING DATE: August 19, 2016  
TITLE: INTELLIGENT MOBILE DEVICE TEST FIXTURE

DECLARATION PURSUANT TO 37 C.F.R. § 1.63 AND ASSIGNMENT

I. DECLARATION

As the below named inventor, I hereby make the following declarations with respect to the above-identified patent application attached hereto:

The above-identified application was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application;

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims;

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application; and

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.

II. ASSIGNMENT

WHEREAS, I, Bahram Omidfar, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, FMR LLC, (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 245 Summer Street, Boston, Massachusetts, 02210, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

industrial property by filing any such applications for letters patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all letters patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all letters patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein.

I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications.

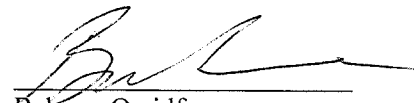
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I hereby authorize and request the Director of the United States Patent and Trademark Office to issue such letters patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

### III. SIGNATURE BLOCK

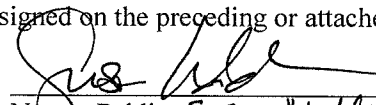
*IN TESTIMONY WHEREOF*, I have hereunto set my hand-and affixed my seal on the date set forth below.

Inventor:

  
Bahram Omidfar

State/Commonwealth of NC )  
County of Durham ) ss

On this 24 day of August, 2016 before me, the undersigned notary public, personally appeared Bahram Omidfar, proved to me through satisfactory evidence of identification, which were WI Drivers License to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public Susan Maddox  
My Commission Expires: Nov 1, 2016

#### WITNESS

Witness Signature: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Witness Date: \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS: Dougherty *et al.* CONFIRMATION NO.: 3679  
APPLICATION NO.: 15/242,016 FILING DATE: August 19, 2016  
TITLE: INTELLIGENT MOBILE DEVICE TEST FIXTURE

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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.

II. ASSIGNMENT

WHEREAS, I, Hongbing Gu, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, FMR LLC, (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 245 Summer Street, Boston, Massachusetts, 02210, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

DECLARATION PURSUANT TO 37 C.F.R. § 1.63 AND ASSIGNMENT  
U.S. Application No. 15/242,016  
Atty. Docket No.: FID-153  
Page 2 of 2

industrial property by filing any such applications for letters patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all letters patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all letters patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein.

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### III. SIGNATURE BLOCK

*IN TESTIMONY WHEREOF*, I have hereunto set my hand-and affixed my seal on the date set forth below.

Inventor:

Hongbing Gu  
Hongbing Gu

State/Commonwealth of )  
County of ) ss

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ before me, the undersigned notary public, personally appeared Hongbing Gu, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

My Commission Expires: \_\_\_\_\_

### WITNESS

Witness Signature: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Witness Date: \_\_\_\_\_

Xinrui Yu

Xinrui Yu

Aug 23 2016



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS: Dougherty *et al.* CONFIRMATION NO.: 3679  
APPLICATION NO.: 15/242,016 FILING DATE: August 19, 2016  
TITLE: INTELLIGENT MOBILE DEVICE TEST FIXTURE

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DECLARATION PURSUANT TO 37 C.F.R. § 1.63 AND ASSIGNMENT  
U.S. Application No. 15/242,016  
Atty. Docket No.: FID-153  
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### III. SIGNATURE BLOCK

**IN TESTIMONY WHEREOF**, I have hereunto set my hand-and affixed my seal on the date set forth below.

Inventor:

Hongyu Wang  
Hongyu Wang

State/Commonwealth of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me, the undersigned notary public, personally appeared Hongyu Wang, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

My Commission Expires: \_\_\_\_\_

### WITNESS

Witness Signature:

Xinwei Yu

Witness Name:

Xinwei Yu

Witness Date:

Aug 23 2016

59674722v1