

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5831907

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SUNIL MADHANI	09/23/2019
FABRIZIO MACHADO	10/22/2019
CHRISTOPHER A. MCDERMOTT	10/17/2019
JORDAN DONOFRIO	10/01/2019
TOBIAS DONATH	10/01/2019
<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>	15940880
<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>	(617) 526-9635
<b>Email:</b>	sdwhite@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-327
<b>NAME OF SUBMITTER:</b>	PATRICK NIEDERMEIER
<b>SIGNATURE:</b>	/Patrick J. Niedermeier #64,946/
<b>DATE SIGNED:</b>	11/21/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 10</b>	

source=FID-327 Sunil Madhani#page1.tif  
source=FID-327 Sunil Madhani#page2.tif  
source=FID-327 Fabrizio Machado#page1.tif  
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source=FID-327 Christopher McDermott#page1.tif  
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source=FID-327 Tobias Donath#page1.tif  
source=FID-327 Tobias Donath#page2.tif

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Madhani et al. CONFIRMATION NO.: 4430  
APPLICATION NO.: 15/940,880 FILING DATE: March 29, 2018  
TITLE: RECOGNITION OF HANDWRITTEN CHARACTERS IN DIGITAL IMAGES  
USING CONTEXT-BASED MACHINE LEARNING

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:

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, Sunil Madhani, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, EMR 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, MA 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

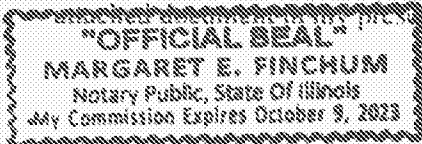
IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal on the date set forth below:

Inventor: [Signature]  
Sunil Madhani

NOTARIZATION

State/Commonwealth of )  
County of Cook ) ss

On this 23 day of September, 2019 before me, the undersigned notary public, personally appeared Sunil Madhani proved to me through satisfactory evidence of identification, which were License 39097232, to be the person whose name is signed on the preceding or



[Signature]  
Notary Public  
My Commission Expires: 10/9/23

WITNESS

Witness Signature: [Signature]  
Witness Name: Christopher Lopatowski  
Witness Date: 9/23/2019

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Madhani et al. CONFIRMATION NO.: 4430  
APPLICATION NO.: 15/940,880 FILING DATE: March 29, 2018  
TITLE: RECOGNITION OF HANDWRITTEN CHARACTERS IN DIGITAL IMAGES  
USING CONTEXT-BASED MACHINE LEARNING

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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, Fabrizio Machado, 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, MA 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.

Inventor: [Signature]  
Fabrizio Machado

NOTARIZATION

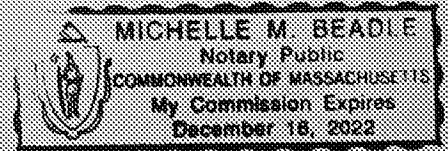
State/Commonwealth of Massachusetts  
County of Suffolk ) ss

On this 22 day of October, 2019 before me, the undersigned notary public, personally appeared Fabrizio Machado proved to me through satisfactory evidence of identification, which were MA license, to be the person whose name is signed on the preceding or attached document in my presence.

[Signature]  
Notary Public  
My Commission Expires: Dec. 16, 2022

WITNESS

Witness Signature: \_\_\_\_\_  
Witness Name: \_\_\_\_\_  
Witness Date: \_\_\_\_\_



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Madhani et al. CONFIRMATION NO.: 4430  
APPLICATION NO.: 15/940,880 FILING DATE: March 29, 2018  
TITLE: RECOGNITION OF HANDWRITTEN CHARACTERS IN DIGITAL IMAGES  
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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, Christopher A. McDermott, 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, MA 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

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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: *Christopher A. McDermott*  
Christopher A. McDermott

**NOTARIZATION**

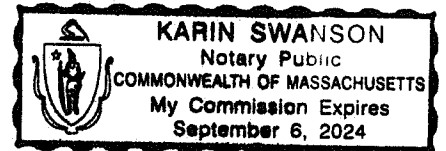
State/Commonwealth of MA )  
County of Suffolk ) ss

On this 17 day of October, 2019 before me, the undersigned notary public, personally appeared Christopher A. McDermott proved to me through satisfactory evidence of identification, which were personally known, to be the person whose name is signed on the preceding or attached document in my presence.

*Karin Swanson*  
Notary Public  
My Commission Expires: 9/6/24

**WITNESS**

Witness Signature: *Laurie Black-Lone*  
Witness Name: Laurie Black-Lone  
Witness Date: October 17, 2019





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Madhani et al. CONFIRMATION NO.: 4430  
APPLICATION NO.: 15/940,880 FILING DATE: March 29, 2018  
TITLE: RECOGNITION OF HANDWRITTEN CHARACTERS IN DIGITAL IMAGES  
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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, Jordan Donofrio, 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, MA 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.

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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: Jordan L. Donofrio  
Jordan Donofrio

**NOTARIZATION**

State/Commonwealth of Massachusetts  
County of Suffolk ) ss

On this 1 day of October, 2019 before me, the undersigned notary public, personally appeared Jordan Donofrio proved to me through satisfactory evidence of identification, which were drivers license, to be the person whose name is signed on the preceding or attached document in my presence.



J. Lamphear  
Notary Public  
My Commission Expires: 3-30-2023

**WITNESS**

Witness Signature: \_\_\_\_\_  
Witness Name: \_\_\_\_\_  
Witness Date: \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Madhani et al. CONFIRMATION NO.: 4430  
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II. ASSIGNMENT

WHEREAS, I, Tobias Donath, 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, MA 02210, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

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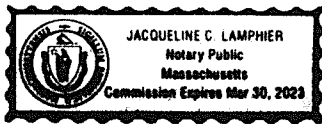
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Inventor:   
Tobias Donath

**NOTARIZATION**

State/Commonwealth of Massachusetts  
County of Suffolk ) ss

On this 1 day of October, 2019 before me, the undersigned notary public, personally appeared Tobias Donath proved to me through satisfactory evidence of identification, which were drivers license, to be the person whose name is signed on the preceding or attached document in my presence.



  
Notary Public  
My Commission Expires: 3-30-2023

**WITNESS**

Witness Signature: \_\_\_\_\_  
Witness Name: \_\_\_\_\_  
Witness Date: \_\_\_\_\_