

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2947213

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Robert C. Toole	11/01/2012
Jonathan Hromi	11/01/2012
John McDonough	10/30/2012
Hadley Rupert Stern	11/05/2012
Seth Warren Brooks	11/06/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FMR LLC
<b>Street Address:</b>	82 DEVONSHIRE STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02109
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14336620
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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) 542-5070
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	CHRISTINA V. MCDONOUGH
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	08575-0181003
<b>NAME OF SUBMITTER:</b>	MARY FLORCZAK
<b>SIGNATURE:</b>	/Mary Florczak/
<b>DATE SIGNED:</b>	07/21/2014
<b>Total Attachments: 5</b>	
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ASSIGNMENT

For valuable consideration, we, SETH WARREN BROOKS of 9 Paddock Road, South Easton, Massachusetts 02375, United States of America, JOHN MCDONOUGH of 40 Winter Street, Nahant, Massachusetts 01908, United States of America, HADLEY RUPERT STERN of 263 Cherry Street, West Newton, Massachusetts 02465, United States of America, ROBERT C. TOOLE of 74 Hersey Street, Hingham, Massachusetts 02043, United States of America, JONATHAN HROMI of 50 Watertown St. #210, Watertown, MA 02472 United States of America, hereby assign to:

FMR LLC, a corporation of Delaware having a place of business at:

82 Devonshire Street  
Boston, MA 02109; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled RISK ADJUSTED, MULTIFACTOR AUTHENTICATION, filed November 7, 2012, and assigned U.S. Serial Number 13/670,698, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: November 6, 2012

Seth Brooks  
SETH BROOKS

Witnessed by:

Name: [Signature]

Date: November 6, 2012

Name: [Signature]

Date: 11/6/12

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

JOHN MCDONOUGH

Witnessed by:

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

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

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

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

Date: NOV. 5, 2012

[Signature]  
HADLEY STERN

Witnessed by:

Name: [Signature]

Date: 11/5/2012

Name: [Signature]

Date: 11/5/2012

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

ROBERT TOOLE

Witnessed by:

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

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

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

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

Date: \_\_\_\_\_  
SETH BROOKS

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: 10/30/12 \_\_\_\_\_  
  
JOHN MCDONOUGH

Witnessed by:

Name: Christina V. McDaniel \_\_\_\_\_ Date: 10/30/12 \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
HADLEY STERN

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
ROBERT TOOLE

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Attorney's Docket No.: 08575-0181001 / 201201411

Date: \_\_\_\_\_  
SETH BROOKS

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
JOHN MCDONOUGH

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
HADLEY STERN

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

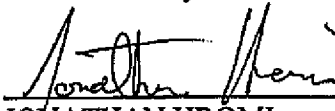
Date: 11/1/12  
ROBERT TOOLE

Witnessed by:


Name: Mickel Cicchetti Date: 11/1/12

Name: B. W. Hoff Date: 11/1/12

Date: 11/1/12

  
JONATHAN HROMI

Witnessed by:

Name: DMITRY BISKOLO 

Date: 11/1/2012

Name: 

Date: 11/1/12

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