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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3109905

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SUZANNE C. DEFFEYES | 11/10/2014 |
| FRANCIS J. HILDENBRAND JR. | 11/12/2014 |
| GARRETH J. JEREMIAH | 11/11/2014 |
| AMIR KHAN | 11/12/2014 |
| C. STEVEN LINGAFELT | 11/11/2014 |
| RECEIVING PARTY DATA | |
| Name: | INTERNATIONAL BUSINESS MACHINES CORPORATION |
| Street Address: | NEW ORCHARD ROAD |
| City: | ARMONK |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14542706 |
| CORRESPONDENCE DATA | |
| Fax Number: | (845)892-6363 |
| <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> | |
| Phone: | 607-429-5281 |
| Email: | FDCiplaw@us.ibm.com |
| Correspondent Name: | IBM CORP - FISHKILL DRAFTING CENTER |
| Address Line 1: | 1701 NORTH STREET |
| Address Line 2: | B/40-3 |
| Address Line 4: | ENDICOTT, NEW YORK 13760 |
| ATTORNEY DOCKET NUMBER: | END920140118US1 |
| NAME OF SUBMITTER: | ARNOLD B. BANGALI |
| SIGNATURE: | /Arnold B. Bangali/ |
| DATE SIGNED: | 11/17/2014 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 10 | |

PATENT

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DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: AUTHENTICATING A DEVICE BASED ON AVAILABILITY OF OTHER AUTHENTICATION METHODS

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number _____
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I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

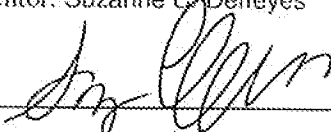
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefore in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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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.

(1) Legal Name of Inventor: Suzanne C. Defieyes

Signature:  Date: Nov 10, 2014

(2) Legal Name of Inventor: Francis J. Hildenbrand Jr.

Signature: _____ Date: _____

(3) Legal Name of Inventor: Garreth J. Jeremiah

Signature: _____ Date: _____

(4) Legal Name of Inventor: Amir Khan

Signature: _____ Date: _____

(5) Legal Name of Inventor: Steven C. Lingafelt

Signature: _____ Date: _____

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(1) Legal Name of Inventor: Suzanne C. Deffeyes

Signature: _____ Date: _____

(2) Legal Name of Inventor: Francis J. Hildenbrand Jr.

Signature: Francis J. Hildenbrand Jr. Date: 11/12/14

(3) Legal Name of Inventor: Garreth J. Jeremiah

Signature: _____ Date: _____

(4) Legal Name of Inventor: Amir Khan

Signature: _____ Date: _____

(5) Legal Name of Inventor: Steven C. Lingafelt

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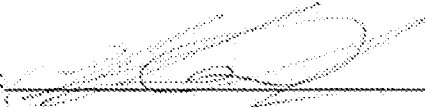
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Signature:  _____ Date: Nov 11, 2014

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Signature: _____ Date: _____

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Signature:  _____ Date: 11/12/14

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Signature: _____ Date: _____

(2) Legal Name of Inventor: Francis J. Hildenbrand Jr.

Signature: _____ Date: _____

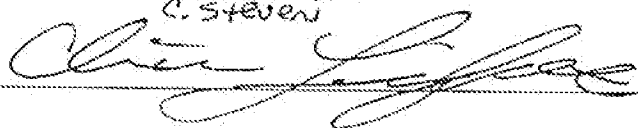
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Signature: _____ Date: _____

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Signature: _____ Date: _____

(5) Legal Name of Inventor: ^{asc} Steven C. Lingafelt
C. Steven

Signature:  Date: 11/11/14