503561851 11/10/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3608478

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DA	ATA		
		Name Execution Da	ate
GALINA GRUNIN		11/09/2015	
DAVID E. NACHMAN		11/10/2015	
NADER M. NASSAR		11/09/2015	
TAMER M. NASSAR		11/09/2015	
RECEIVING PARTY DA	ТА		
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION		
Street Address:	NEW O	RCHARD ROAD	
City:	ARMONK		
State/Country:	NEW Y	ORK	
Postal Code:	10504		
PROPERTY NUMBERS Property Type		Number	
	Total: 1	Number	
		Number 14936736	
Property Type Application Number:			
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Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	ATA e sent to provided	(607)429-4119 the e-mail address first; if that is unsuccessful, it will be sent ; if that is unsuccessful, it will be sent via US Mail.	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone:	ATA e sent to provided	14936736 (607)429-4119 • the e-mail address first; if that is unsuccessful, it will be sent <i>I; if that is unsuccessful, it will be sent via US Mail.</i> 607-429-5281	
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Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA e sent to provided	(607)429-4119 the e-mail address first; if that is unsuccessful, it will be sent if that is unsuccessful, it will be sent via US Mail. 607-429-5281 dlhochdo@us.ibm.com IBM CORPORATION - ENDICOTT DRAFTING CENT 1701 NORTH STREET BUILDING 256-3	
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provided	(607)429-4119 the e-mail address first; if that is unsuccessful, it will be sent if that is unsuccessful, it will be sent via US Mail. 607-429-5281 dlhochdo@us.ibm.com IBM CORPORATION - ENDICOTT DRAFTING CENT 1701 NORTH STREET BUILDING 256-3 ENDICOTT, NEW YORK 13760	
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Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: SIGNATURE:	ATA e sent to provided	(607)429-4119 the e-mail address first; if that is unsuccessful, it will be sent if that is unsuccessful, it will be sent via US Mail. 607-429-5281 dlhochdo@us.ibm.com IBM CORPORATION - ENDICOTT DRAFTING CENT 1701 NORTH STREET BUILDING 256-3 ENDICOTT, NEW YORK 13760 END920150152US1 OLIVIA R. SCHEUER /Olivia R. Scheuer/	

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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: DYNAMIC AUTHENTICATION FOR A COMPUTING SYSTEM

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):

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 application.

I have reviewed and understand the contents of the application, including the claims.

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 bereby 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 therefor 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: Galina Grunin

Signature: 62/12a Grymin Date: 11/9/15

(2) Legal Name of Inventor: David E. Nachman

Signature:_____Date:_____

(3) Legal Name of Inventor: Nader M. Nassar

Signature: _____ Date:

(4) Legal Name of Inventor: Tamer M. Nassar

Signature:______Date:_____

Page 2 of 2

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(1) Legal Name of Inventor: Galina Grunin

(2) Legal Name of Inventor: David E. Nachman

Kevil Nech _____ Date: 11/10/15-Signature:

(3) Legal Name of Inventor: Nader M. Nassar

Signature:_____Date:_____

(4) Legal Name of Inventor: Tamer M, Nassar

Signature:_____Date:_____

Page 2 of 2

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(1) Legal Name of Inventor: Galina Grunin	
Signature:	Date:
(2) Legal Name of Inventor: David E. Nachman	
Signature:	Date:
(3) Legal Name of Inventor: Nader M. Nassar	Date:11/09/2015
(4) Legal Name of Inventor: Tamer M. Nassar	L300.7

Signature:_____Date:_____

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Signature:	Date:
(2) Legal Name of Inventor: David E. Nachman	
Signature:	Date:
(3) Legal Name of Inventor: Nader M. Nassar	
Signature:	Date:
(4) Legal Name of Inventor: Tamer M. Nassar	
Signature: Same Mass	Date: 11/09/2015

Page 2 of 2

PATENT REEL: 037078 FRAME: 0913

RECORDED: 11/10/2015