505158585 10/25/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5205352

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AYELET AVNI	10/24/2018
FADY COPTY	10/22/2018
AYMAN JARROUS	10/22/2018
SHARON KEIDAR-BARNER	10/25/2018
SHIRI LEMEL	10/22/2018

#### RECEIVING PARTY DATA

Name:	International Business Machines Corporation
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State/Country:	NEW YORK
Postal Code:	10504

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16170210

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	ER: IL920160100US02	
NAME OF SUBMITTER:	EYAL GILBOA	
SIGNATURE:	/Eyal Gilboa/	
<b>DATE SIGNED:</b> 10/25/2018		
	This document serves as an Oath/Declaration (37 CFR 1.63).	
	•	

**Total Attachments: 4** 

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PATENT REEL: 047307 FRAME: 0900

# 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: USER AUTHENTICATION BASED ON PREDICTIVE APPLICATIONS

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if tottowing	g box is checked):
[ ] United States application or PCT international application number	16/170210
[ ] United States application or PCT international application number filed on October 25, 208	

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, the undersigned inventor(s) has/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, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to grant to IBM, the 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, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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 light of the good and valuable consideration acknowledged above, I agree that I will not be compensated, nor am I entitled to any other consideration beyond that already compensated to me by IBM or might be further compensated to me at IBM's sole discretion and good will. I waive my rights to any additional consideration and confirm that the above forms an agreement between me and IBM for the purpose of Section 134 to Israel's Patents Law.

In addition, each undersigned inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be

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#### IBM DOCKET NUMBER: IL920160100USD2

granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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:	AYELET AVNI	
Signature:	JAC AGMe	Date: 40/24/20
	아 텔레 아니스 스프롤 스플 시스 아이트 스트를 보는 아이트 스플 트롤 스트스 트립트	마루에 아이 아이 아이를 하는 것이다. 시를하는 사람들이 사람들이 가를 다 살았다.
(2) Legal Name of Inventor:	FADY COPTY	
Signature:		Date:
(3) Legal Name of Inventor	: AYMAN JARROUS	
Signature:		Date:
	는 이 이 중 전환물에 들었다. 그는 그들은 작업의 그 기계 이 경험장에 그를 다양한 이 전을 되었다.	
(4) Legal Name of Inventor:	SHARON KEIDAR-BARNER	
Signature:		Date:
Zes v a m Portagna ser Tables and		
(5) Legal Name of Inventor:	SHIRLLEWEL	
Signature:		Date:

#### IBM DOCKET NUMBER: IL920160100USQA

granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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: AYELET AVNI		
Signature:	Date:	unannananan
(2) Legal Name of Inventor: FADY COPTY		
Signature:	Date: 20 C	1CT 20
(3) Legal Name of Inventor: AYMAN JARROUS		
Signature:	Date:	00000000000
(4) Legal Name of Inventor: SHARON KEIDAR-BARNER		
Signature:	Date:	SIGNICIO GORGO GOR
(5) Legal Name of Inventor: SHIRI LEMEL		
Signatures	Date	

Page 2 of 2

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(1) Legal Name of Inventor: AYELE	Γ AVNI	
Signature:		Date:
(2) Legal Name of Inventor: FADY C	:OPTY	
Signature:		Date:
(3) Legal Name of Inventor: AYMA		
Signature:	19:51	Date: <u>October 22, 2018</u>
(4) Legal Name of Inventor: SHARO	N KEIDAR-BARNER	
Signature:		Date: Oct 25, 2017
(5) Legal Name of Inventor: SHIRI I	EMEL	
Si-matura:	n X	Data: October 22, 2018

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