#### 504737778 01/19/2018

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
FENGLIAN XU	01/15/2018
JAKE TURNER	01/18/2018
LIAM GRACE	01/17/2018
ANASTASIA PATERSON	01/18/2018

#### **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:	15875421

#### **CORRESPONDENCE DATA**

**Fax Number:** (516)742-4366

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.

**Phone:** 516-742-4343

Email: mgroth@ssmp.com

Correspondent Name: SCULLY, SCOTT, MURPHY & PRESSER, P.C.

Address Line 1: 400 GARDEN CITY PLAZA

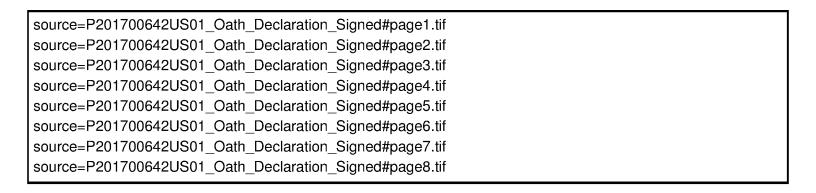
Address Line 2: SUITE 300

Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	P201700642US01 (35304)
NAME OF SUBMITTER:	STEVEN FISCHMAN
SIGNATURE:	/Steven Fischman/
DATE SIGNED:	01/19/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 8** 

PATENT REEL: 044670 FRAME: 0070



PATENT REEL: 044670 FRAME: 0071

### 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: BUILDING TRUSTED PUBLIC BLOCKCHAIN NETWORKS BASED ON PARTICIPANTS' DIGITAL SOCIAL BEHAVIOR

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

This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
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 C.F.R. § 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 bereby 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 therefor in the United States and in all foreign countries and jurisdictions, including all divisions, combinuations, relissues, 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 emoved 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.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, 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: Fenglian Xu			
Signature: Janalusku Su		Date:	15/01/2018
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(2) Logal Name of Inventor: Jake Turner			
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(3) Legal Name of Inventor: Liam Grace			
Signature:		Dates	
(4) Legal Name of Inventor: Anastasia Paterson			
Signature:	******	Date:	

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

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

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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 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.

Page 1 of 2

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(1) Legai Name of inventor: rengium Au	en de la companya de La companya de la co	
Signature:	Date:	····
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(2) Legal Name of Inventor: Jake Turner		
Signature: Take Ture	Date: 13th Jantho	<u> 2</u>
		₩
(3) Legal Name of Inventor: Liam Grace		
Signature:	Date:	i.co
(4) Legal Name of Inventor: Anastasia Paterson		
Signature;	Date:	

IBM DOCKET NUMBER: PROTROGERSON

### DECLARATION (37 C.F.R. § 1.63) FOR UTILITY PAYENT APPLICATION USING AN APPLICATION DATA SHREET (37 C.F.R. § 1.76) AND ASSIGNMENT

### Tide of Invention: BUILDENG TRUSTED FUBLIC BLOCK CHAIN NETWORKS HASED ON PARTICIPANTS' DIGITAL SOCIAL BEHAVIOR

Wherem, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (bendin referred to as the "Invention") disclosed in the above identified patent application and further identified by the IBM Docket Number provided above in the bender of this decument.

Whereas, International Business Machines Corporation (hencin mileral) to as the "ASSIGNITY"), is corporation of New York having a place of business at Ambook, New York, desires to acquire, and I device to grant to the ASSECCEE, my entire worldwide right, title, and interest in and to the liveration 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 action whether. I bereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSKINEE, its ourcessors, legal representatives, and usigns, my entire worldwide right, little, and interest in and to the laversion, the above-identified United States patter application, and any and all other patent applications and patents for the lovemiess which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, releases, mecanications, renewals, extensions, equatypasts, 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 home any United States Patent, and foreign patent authorities to incur any foreign parent, granted for the Invention, to the ASSIGNEE, its succession, legal representatives, and assigns, my control worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSXINGE, in recoverers, legal representatives, and aneigns to the full end of the series for which say and all such patents may be granted, as fully and entirely as would have been held and enjoyed by one 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 this to the Invention and all related patents and applications, in the ANNEWSE, its successors, legal representatives, and assigns, whosever requested by the ASSKAVEE, its sectioners, legal representatives, or sestions.

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(1) Legal Name of Inventor, Fenglish Xu	
Signature:	Date:
(2) Legal Name of Inventor: Jake Turner	
Signature:	Date:
(3) Legal Name of Inventor: Liam Grace	same beer see
Signatur:	Date: 17/01/2018
(4) Legal Name of Inventor: Anastasia Paterson	
Signature:	Date:

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

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[ ] United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
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Page 1 of 2

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(1) Legal Name of Inventor: Fenglian Xu

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Signature:			and the second of the second o	Date:	
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(2) Legal Name of Inve					
Signature:		<u> </u>		Date:	eks kala da kasara ka 1
(3) Legal Name of Inve	ntor Liam Grace	lais Laigheath is a Laichte sachtair s Laighean Coile sa Laighean Laighea Laighean Laistean (Sachtail Laighean Laistean (Sachtaile Laighean Laistean (Sachtaile	idang adam ya Lining Imperior Lingdi Zawagai Magalaga Lining Liningdi Lawaga Liningdi Lawagai Karagai Lawagai Karagai Liningdi Lawagai Karagai		Signate dan de Saine Lastidação escántada Saine Saine Saine ande Saine Saine Saine Saine Saine Saine Saine Saine Saine Saine Saine Saine
	entor: <b>Anastasi</b> a F				
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