PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ersion v1.1 EPAS ID: PAT5082229

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MANIAN KRISHNAMOORTHY	08/02/2018
VENKAT KORVI	07/30/2018
MANNAR NAGA SAI KARYAMPUDI	08/03/2018
YING CHEN	07/30/2018
PRAVEEN ATREYA	07/27/2018

RECEIVING PARTY DATA

Name:	VERIZON PATENT AND LICENSING INC.
Street Address:	ONE VERIZON WAY
City:	BASKING RIDGE
State/Country:	NEW JERSEY
Postal Code:	07920

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16054316

CORRESPONDENCE DATA

Fax Number: (703)439-2658

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: 571-297-0007
Email: pto@snyderllp.com

Correspondent Name: SNYDER, CLARK, LESCH & CHUNG, LLP

Address Line 1: 205 VAN BUREN STREET

Address Line 2: SUITE 110

Address Line 4: HERNDON, VIRGINIA 20170

ATTORNEY DOCKET NUMBER:	20180118
NAME OF SUBMITTER:	TONY M. COLE
SIGNATURE:	/Tony M. Cole, Reg. No. 43,417/
DATE SIGNED:	08/03/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 505035478 REEL: 046550 FRAME: 0911

Total Attachments: 5source=20180118_0021-1465_Dec_Assign#page1.tif source=20180118_0021-1465_Dec_Assign#page2.tif source=20180118_0021-1465_Dec_Assign#page3.tif source=20180118_0021-1465_Dec_Assign#page4.tif

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- I hereby acknowledge that any willful false caremers made in this declaration is pureliable under 13 U.S.C., (18) by the

for word and united to the control of second of which is hereby acknowledged. I here as follows:

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: <u>IDENTITY FRAUD RISK ENGINE PLATFORM</u>

Signature:

the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on as United States Application Number or PCT International Application Number
Declaration of Inventor
As the below named inventor, I hereby declare that:
 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 above-referenced application; and 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.
Inventor Assignment Acknowledgement
For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:
A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional of other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissue Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.
B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally deverything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.
C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have execute as set forth below:
Full legal name of Inventor: Venkat Korvi
Address: 19 Wellington Road, Winchester, MA 01890
Signature: Date: July 30, 2018

July 30, 2018

Date:

PATENT REEL: 046550 FRAME: 0914

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: IDENTITY FRAUD RISK ENGINE PLATFORM

the patent application for which: ☒ is being filed concurrently herewith, Application Number to be assigned by the USPTO, or
was filed on as United States Application Number or PCT International Application Number
<u>Declaration of Inventor</u>
As the below named inventor, I hereby declare that:
 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 above-referenced application; and 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.
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C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Full legal name of Inventor: Mannar Naga Sai Karyampudi
Address: 371 Elan Village Lane, Apt 304, San Jose, CA 95134
Signature: Date: 03-August-2018

PATENT REEL: 046550 FRAME: 0915

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: IDENTITY FRAUD RISK ENGINE PLATFORM

the patent application for which: ☐ is being filed concurrently herewith, Application Number to be assigned by the USPTO, or ☐ was filed on as United States Application Number or PCT International Application Number
<u>Declaration of Inventor</u>
As the below named inventor, I hereby declare that:
 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 above-referenced application; and 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.
Inventor Assignment Acknowledgement
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ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Full legal name of Inventor: Ying Chen
Address: 80 Fawcett Street, Apt 147, Cambridge, MA 02138
Signature: A 23 / Date: July 30, 2018

PATENT REEL: 046550 FRAME: 0916

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: IDENTITY FRAUD RISK ENGINE PLATFORM

he patent application for which:
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Number

Declaration of Inventor

As the below named inventor, I hereby declare that:

- 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 above-referenced application; and
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ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US

IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:

Full legal name of Inventor: Praveen Atreya

Signature: Masew Myring Date: 7

PATENT REEL: 046550 FRAME: 0917 1

RECORDED: 08/03/2018