

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5673979

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HISHAM I. SALAMA	01/24/2017
EDWARD LOUNSBURY	12/05/2016
PAUL MON-WAH CHAN	02/08/2017
RECEIVING PARTY DATA	
Name:	THE TORONTO-DOMINION BANK
Street Address:	66 WELLINGTON STREET WEST, TD TOWER, 12TH FLOOR
City:	TORONTO, ONTARIO
State/Country:	CANADA
Postal Code:	M5K 1A2
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14869852
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	G4144-00094
NAME OF SUBMITTER:	JAMES A. COOKE, III
SIGNATURE:	/James A. Cooke, III/
DATE SIGNED:	08/19/2019
Total Attachments: 14	
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Assignment

WHEREAS, I, **Hisham I. SALAMA** (hereinafter the "Assignor"), invented certain new and useful inventions as disclosed and claimed in the patent applications listed on Schedule A attached hereto (hereinafter, the "Patent Applications"),

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "Assignee"), whose postal address is 66 Wellington Street West, TD Tower, 12th Floor, Toronto, Ontario, M5K 1A2, Canada, is desirous of acquiring the entire and exclusive right, title and interest in and to said inventions and said Patent Applications and in and to any Letters Patent which may be granted and issued therefore throughout the world;

NOW THEREFORE, the Assignor hereby sells, assigns and transfers, to the Assignee, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the entire and exclusive right, title, and interest in and to said inventions in Canada, the U.S., and throughout the world, any improvements thereto, any patent applications, including any utility provisional patent applications and any utility non-provisional patent applications, divisional applications, and continuation patent applications claiming priority therefrom or claiming the benefit thereof ("Subsequent Patent Applications"), including the right to file said Subsequent Patent Applications identifying the Assignee as applicant, and any Letters Patent, including any re-issue patents, which may be granted and issued therefore in Canada, the U.S., and throughout the world.

The Assignor DECLARES that he (i) authorized said Patent Applications and authorizes said Subsequent Patent Applications, (ii) believes that he is an original joint inventor of the invention claimed in said Patent Applications and said Subsequent Patent Applications, and (iii) acknowledges 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.

The Assignor AGREES to do all things reasonably required of him, and to execute all instruments submitted to him by the Assignee, for the purpose of carrying out the full intent of this Assignment, including any Oaths/Declarations and/or Assignments to perfect this sale, assignment and transfer of the inventions, the Patent Applications, and the Subsequent Patent Applications to the Assignee, and hereby requests and authorizes the Patent Office to issue the said Letters Patent to the Assignee, its successors and assigns.

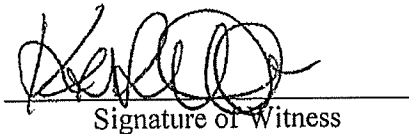
WORLDWIDE

EXECUTED at Toronto ON, this 24 day of January, 2017


Hisham I. SALAMA

STATEMENT BY WITNESS

I, Kristen Porter, whose full post office
address is 77 King St. W 12th Fl Toronto M5K 1A2 was personally present
and did see Hisham I. SALAMA, who is known to me, execute the above Assignment.


Signature of Witness

Schedule A

<u>Attorney Docket No.</u>	<u>U.S. App. No.</u>	<u>Filing Date</u>	<u>Title</u>
G4144-00044	61/888,653	October 9, 2013	SYSTEMS AND METHODS FOR PROVIDING TOKENIZED TRANSACTION ACCOUNTS
G4144-00144	62/073,881	October 31, 2014	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITY BASED ON USER-DEFINED IMAGE DATA
G4144-0042	14/487,917	September 16, 2014	SYSTEMS AND METHODS FOR PROVIDING TOKENIZED TRANSACTION ACCOUNTS
G4144-00041	14/301,082	June 10, 2014	HIGH FRAUD RISK TRANSACTION AUTHORIZATION
G4144-00131	14/869,818	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00061	14/510,969	October 9, 2014	SYSTEMS AND METHODS FOR PROVIDING TOKENIZED TRANSACTION ACCOUNTS
G4144-00134	14/869,869	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00094	14/869,852	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00137	14/869,833	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00142	14/928,500	October 30, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITY BASED ON USER-DEFINED IMAGE DATA

Assignment

WHEREAS, I, **Edward LOUNSBURY** (hereinafter the "**Assignor**"), invented certain new and useful inventions as disclosed and claimed in the patent applications listed on Schedule A attached hereto (hereinafter, the "**Patent Applications**"),

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "**Assignee**"), whose postal address is 66 Wellington Street West, TD Tower, 12th Floor, Toronto, Ontario, M5K 1A2, Canada, is desirous of acquiring the entire and exclusive right, title and interest in and to said inventions and said Patent Applications and in and to any Letters Patent which may be granted and issued therefore throughout the world;

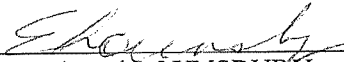
NOW THEREFORE, the Assignor hereby sells, assigns and transfers, to the Assignee, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the entire and exclusive right, title, and interest in and to said inventions in Canada, the U.S., and throughout the world, any improvements thereto, any patent applications, including any utility provisional patent applications and any utility non-provisional patent applications, divisional applications, and continuation patent applications claiming priority therefrom or claiming the benefit thereof ("**Subsequent Patent Applications**"), including the right to file said Subsequent Patent Applications identifying the Assignee as applicant, and any Letters Patent, including any re-issue patents, which may be granted and issued therefore in Canada, the U.S., and throughout the world.

The Assignor DECLARES that he (i) authorized said Patent Applications and authorizes said Subsequent Patent Applications, (ii) believes that he is an original joint inventor of the invention claimed in said Patent Applications and said Subsequent Patent Applications, and (iii) acknowledges 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.

The Assignor AGREES to do all things reasonably required of him, and to execute all instruments submitted to him by the Assignee, for the purpose of carrying out the full intent of this Assignment, including any Oaths/Declarations and/or Assignments to perfect this sale, assignment and transfer of the inventions, the Patent Applications, and the Subsequent Patent Applications to the Assignee, and hereby requests and authorizes the Patent Office to issue the said Letters Patent to the Assignee, its successors and assigns.

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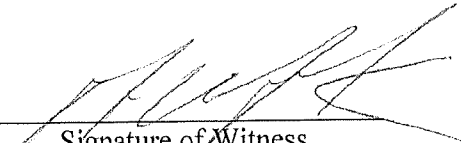
EXECUTED at Toronto, this 5th day of December, 2016



Edward LOUNSBURY

STATEMENT BY WITNESS

I, MICHAEL VAN EESBEEK, whose full post office address is 33 COTTONTAIL AVE, MARKHAM, ON, was personally present and did see Edward LOUNSBURY, who is known to me, execute the above Assignment.



Signature of Witness



WORLDWIDE

Schedule A

<u>Attorney Docket No.</u>	<u>U.S. App. No.</u>	<u>Filing Date</u>	<u>Title</u>
G4144-00055	62/019,267	June 30, 2014	SYSTEMS AND METHODS FOR ADMINISTERING INVESTMENT PORTFOLIOS BASED ON INFORMATION CONSUMPTION
G4144-00090	62/016,012	June 23, 2014	SYSTEMS AND METHODS FOR PROVIDING AUTHENTICATION
G4144-00091	62/016,017	June 23, 2014	SYSTEMS AND METHODS FOR PROVIDING AUTHENTICATION
G4144-00131	14/869,818	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00088	14/747,868	June 23, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITIES IN NETWORKED COMPUTER SYSTEMS
G4144-00092	14/747,895	June 23, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITIES IN NETWORKED COMPUTER SYSTEMS
G4144-00052	14/502,407	September 30, 2014	SYSTEMS AND METHODS FOR ADMINISTERING INVESTMENT PORTFOLIOS BASED ON INFORMATION CONSUMPTION
G4144-00134	14/869,869	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00094	14/869,852	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00137	14/869,833	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS

WORLDWIDE

Assignment

WHEREAS, I, **Paul Mon-Wah CHAN** (hereinafter the "**Assignor**"), invented certain new and useful inventions as disclosed and claimed in the patent applications listed on Schedule A attached hereto (hereinafter, the "**Patent Applications**"),

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "**Assignee**"), whose postal address is 66 Wellington Street West, TD Tower, 12th Floor, Toronto, Ontario, M5K 1A2, Canada, is desirous of acquiring the entire and exclusive right, title and interest in and to said inventions and said Patent Applications and in and to any Letters Patent which may be granted and issued therefore throughout the world;


NOW THEREFORE, the Assignor hereby sells, assigns and transfers, to the Assignee, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the entire and exclusive right, title, and interest in and to said inventions in Canada, the U.S., and throughout the world, any improvements thereto, any patent applications, including any utility provisional patent applications and any utility non-provisional patent applications, divisional applications, and continuation patent applications claiming priority therefrom or claiming the benefit thereof ("**Subsequent Patent Applications**"), including the right to file said Subsequent Patent Applications identifying the Assignee as applicant, and any Letters Patent, including any re-issue patents, which may be granted and issued therefore in Canada, the U.S., and throughout the world.

The Assignor DECLARES that he (i) authorized said Patent Applications and authorizes said Subsequent Patent Applications, (ii) believes that he is an original joint inventor of the invention claimed in said Patent Applications and said Subsequent Patent Applications, and (iii) acknowledges 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.

The Assignor AGREES to do all things reasonably required of him, and to execute all instruments submitted to him by the Assignee, for the purpose of carrying out the full intent of this Assignment, including any Oaths/Declarations and/or Assignments to perfect this sale, assignment and transfer of the inventions, the Patent Applications, and the Subsequent Patent Applications to the Assignee, and hereby requests and authorizes the Patent Office to issue the said Letters Patent to the Assignee, its successors and assigns.

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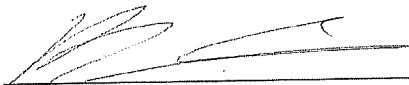
Toronto
SSL
EXECUTED at February, this 8 day of February, 2017



Paul Mon-Wah CHAN

STATEMENT BY WITNESS

I, John Slep, whose full post office
address is 66 Wellington Toronto, was personally present
and did see Paul Mon-Wah CHAN, who is known to me, execute the above Assignment.



Signature of Witness

Schedule A

<u>Attorney Docket No.</u>	<u>U.S. App. No.</u>	<u>Filing Date</u>	<u>Title</u>
G4144-00055	62/019,267	June 30, 2014	SYSTEMS AND METHODS FOR ADMINISTERING INVESTMENT PORTFOLIOS BASED ON INFORMATION CONSUMPTION
G4144-00115	62/019,031	June 30, 2014	SYSTEMS AND METHODS FOR PROVIDING INVESTMENT SECURED FINANCIAL ACCOUNTS
G4144-00090	62/016,012	June 23, 2014	SYSTEMS AND METHODS FOR PROVIDING AUTHENTICATION
G4144-00120	62/022,119	July 8, 2014	SYSTEMS AND METHODS FOR PROVIDING LOCATION PROXIMITY DETECTION AND NOTIFICATION
G4144-00133	62/056,794	September 29, 2014	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING PRE-LOADED MOBILE WALLET APPLICATIONS
G4144-00125	62/022,470	July 9, 2014	SYSTEMS AND METHODS FOR CONFIRMING CUSTOMER IDENTITY USING NON-CREDENTIALLED INFORMATION
G4144-00091	62/016,017	June 23, 2014	SYSTEMS AND METHODS FOR PROVIDING AUTHENTICATION
G4144-00096	62/056,785	September 29, 2014	SYSTEMS AND METHODS FOR ADMINISTERING PRE-LOADED MOBILE WALLET APPLICATIONS
G4144-00136	62/056,776	September 29, 2014	SYSTEMS AND METHODS FOR ADMINISTERING PRE-LOADED MOBILE WALLET APPLICATIONS
G4144-00144	62/073,881	October 31, 2014	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITY BASED ON USED-DEFINED IMAGE DATA
G4144-00149	62/160,274	May 12, 2015	SYSTEMS AND METHODS FOR PROVIDING INFORMATION-TECHNOLOGY ASSETS IN AN OPEN ENVIRONMENT

PATENT

G4144-00001	62/204,768	August 13, 2015	HYBRID PUBLIC-PRIVATE BLOCK-CHAIN LEDGERS
G4144-00085	14/723,331	May 27, 2015	SYSTEMS AND METHODS FOR PROVIDING MERCHANT FRAUD ALERTS
G4144-00118	14/793,915	July 8, 2015	SYSTEMS AND METHODS FOR PROVIDING SENSOR-BASED LOCATION PROXIMITY DETECTION AND NOTIFICATION
G4144-00131	14/869,818	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00123	14/795,584	July 9, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USERS OF NETWORKED COMPUTER SYSTEMS BASED ON NON-CREDENTIALLED INFORMATION
G4144-00088	14/747,868	June 23, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITIES IN NETWORKED COMPUTER SYSTEMS
G4144-00092	14/747,895	June 23, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITIES IN NETWORKED COMPUTER SYSTEMS
G4144-00113	14/755,740	June 30, 2015	SYSTEMS AND METHODS FOR IDENTIFYING AND REMEDYING ACCOUNT ERROR EVENTS IN NETWORKED COMPUTER SYSTEMS
G4144-00052	14/502,407	September 30, 2014	SYSTEMS AND METHODS FOR ADMINISTERING INVESTMENT PORTFOLIOS BASED ON INFORMATION CONSUMPTION
G4144-00061	14/510,969	October 9, 2014	SYSTEMS AND METHODS FOR PROVIDING TOKENIZED TRANSACTION ACCOUNTS
G4144-00071	14/589,848	January 5, 2015	SYSTEMS AND METHODS FOR PROVIDING BALANCE NOTIFICATIONS TO CONNECTED DEVICES
G4144-00069	14/588,861	January 2, 2015	SYSTEMS AND METHODS FOR PROVIDING BALANCE NOTIFICATIONS IN AN AUGMENTED REALITY ENVIRONMENT

PATENT

G4144-00073	14/589,840	January 5, 2015	SYSTEMS AND METHODS FOR PROVIDING BALANCE AND EVENT NOTIFICATIONS
G4144-00082	14/680,790	April 7, 2015	SYSTEMS AND METHODS FOR PROVIDING INFORMATION-TECHNOLOGY ASSETS IN AN OPEN ENVIRONMENT
G4144-00147	15/152,142	May 11, 2016	SYSTEMS AND METHODS FOR PROVIDING INFORMATION-TECHNOLOGY ASSETS IN AN OPEN ENVIRONMENT
G4144-00116	14/755,786	June 30, 2015	SYSTEMS AND METHODS FOR IDENTIFYING AND REMEDYING ACCOUNT ERROR EVENTS IN NETWORKED COMPUTER SYSTEMS
G4144-00121	14/794,038	July 8, 2015	SYSTEMS AND METHODS FOR PROVIDING SENSOR-BASED LOCATION PROXIMITY DETECTION AND NOTIFICATION
G4144-00129	14/796,512	July 10, 2015	SYSTEMS AND METHODS FOR PROVIDING SECURE DATA TRANSMISSION BETWEEN NETWORKED COMPUTING SYSTEMS
G4144-00002	14/928,838	October 30, 2015	SYSTEMS AND METHOD FOR TRACKING ENTERPRISE EVENTS USING HYBRID PUBLIC-PRIVATE BLOCKCHAIN LEDGERS
G4144-00003	14/935,829	November 9, 2015	SYSTEMS AND METHOD FOR TRACKING BEHAVIOR OF NETWORKED DEVICES USING HYBRID PUBLIC-PRIVATE BLOCKCHAIN LEDGERS
G4144-00004	14/936,833	November 10, 2015	SYSTEMS AND METHODS FOR TRACKING AND TRANSFERRING OWNERSHIP OF CONNECTED DEVICES USING BLOCKCHAIN LEDGERS
G4144-00005	14/931,414	November 3, 2015	SYSTEMS AND METHOD FOR TRACKING SUBDIVIDED OWNERSHIP OF CONNECTED DEVICES USING BLOCK-CHAIN LEDGERS
G4144-00006	14/936,812	November 10, 2015	SYSTEMS AND METHODS FOR DETECTING AND RESOLVING DATA INCONSISTENCIES AMONG NETWORKED DEVICES USING HYBRID PRIVATE-PUBLIC BLOCKCHAIN LEDGERS
G4144-00007	14/935,799	November 9, 2015	SYSTEMS AND METHODS FOR ESTABLISHING AND ENFORCING TRANSACTION-BASED RESTRICTIONS USING HYBRID PUBLIC-PRIVATE BLOCKCHAIN LEDGERS

G4144-00097	14/874,202	October 2, 2015	SYSTEMS AND METHODS FOR AUTOMATICALLY GENERATING ORDER DATA BASED ON SOCIAL MEDIA MESSAGING
G4144-00098	15/228,705	August 4, 2016	SYSTEMS AND METHODS FOR AUTOMATICALLY GENERATING ORDER DATA BASED ON SOCIAL MEDIA MESSAGING
G4144-00140	14/874,180	October 2, 2015	SYSTEMS AND METHODS FOR VERIFYING USER IDENTITY BASED ON SOCIAL MEDIA MESSAGING
G4144-00134	14/869,869	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00094	14/869,852	September 29, 2015	SYSTEMS AND METHODS FOR ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00137	14/869,833	September 29, 2015	SYSTEMS AND METHODS FOR GENERATING AND ADMINISTERING MOBILE APPLICATIONS USING PRE-LOADED TOKENS
G4144-00142	14/928,500	October 30, 2015	SYSTEMS AND METHODS FOR AUTHENTICATING USER IDENTITY BASED ON USER-DEFINED IMAGE DATA
G4144-00100	62/201,392	August 5, 2015	SYSTEMS AND METHODS FOR AUTOMATICALLY GENERATING TRADE ORDERS BASED ON SOCIAL MEDIA MESSAGING
G4144-00008	15/233,475	August 10, 2016	MANUFACTURED PRODUCT COUNTERFEITING PREVENTION USING HYBRID BLOCKCHAIN
G4144-00009	15/232,100	August 9, 2016	SECURE REAL-TIME PRODUCT OWNERSHIP TRACKING USING DISTRIBUTED ELECTRONIC LEDGERS
G4144-00010	15/235,528	August 12, 2016	DOCUMENT TRACKING ON A DISTRIBUTED LEDGER
G4144-00011	15/235,076	August 11, 2016	SECURE TRACKING BEACONS USING DISTRIBUTED LEDGERS

G4144-00012	15/255,236	September 2, 2016	SYSTEM AND METHOD FOR MAINTAINING A SEGREGATED DATABASE IN A MULTIPLE DISTRIBUTED LEDGER SYSTEM
G4144-00013	15/277,540	September 27, 2016	PROCESSING NETWORK ARCHITECTURE WITH COMPANION DATABASE
G4144-00014	15/287,815	October 7, 2016	SECURE ELEMENT METHOD FOR DISTRIBUTED ELECTRONIC LEDGER
G4144-00015	15/285,869	October 5, 2016	DISTRIBUTED ELECTRONIC LEDGER WITH METADATA
G4144-00016	15/277,132	September 27, 2016	REAL TIME VIRTUAL DRAFT SYSTEM AND METHOD
G4144-00017	15/235,199	October 12, 2016	SYSTEMS AND METHODS FOR MONITORING REFERRALS
G4144-00018	15/235,090	August 11, 2016	SYSTEM AND METHODS FOR MONITORING CONSTRUCTION PROJECTS
G4144-00019	15/281,433	September 30, 2016	INFORMATION MASKING USING CERTIFICATE AUTHORITY
G4144-00020	15/285,757	October 5, 2016	CERTIFICATE AUTHORITY MASTER KEY TRACKING ON DISTRIBUTED LEDGER
G4144-00021	15/234,947	August 11, 2016	A SYSTEM AND METHOD FOR IMPLEMENTING HYBRID PUBLIC-PRIVATE BLOCK-CHAIN LEDGERS
G4144-00025			REAL-TIME APPROVAL AND SETTLEMENT OF DATA EXCHANGES BETWEEN COMPUTING SYSTEMS
G4144-00103	15/275,657	September 26, 2016	AUTOMATIC PROVISIONING OF SERVICES TO NETWORK-CONNECTED DEVICES

G4144-00104	15/281,479	September 30, 2016	AUTOMATED IMPLEMENTATION OF PROVISIONED SERVICES BASED ON CAPTURED SENSOR DATA
G4144-00105	15/349,508	November 11, 2016	DATA-AGGREGATING GRAPHICAL USER INTERFACES
G4144-00106	15/366,546	December 1, 2016	ASYNCHRONOUS CRYPTOGRAM-BASED AUTHENTICATION PROCESSES
G4144-00151	15/349,274	November 11, 2016	AUTOMATIC PERFORMANCE OF PARAMETER-BASED OPERATIONS IN TRUSTED NETWORK ENVIRONMENTS
G4144-00156	15/278,852	September 28, 2016	REAL TIME VIRTUAL DRAFT SYSTEM AND METHOD
G4144-00157	15/281,558	September 30, 2016	AUTOMATED IMPLEMENTATION OF PROVISIONED SERVICES BASED ON CAPTURED SENSOR DATA