

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5719109

|                                                                                                                                                                                                 |                                          |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                           |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                               |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                          |                       |
|                                                                                                                                                                                                 | <b>Name</b>                              | <b>Execution Date</b> |
|                                                                                                                                                                                                 | EBAY INC.                                | 07/17/2015            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                          |                       |
| <b>Name:</b>                                                                                                                                                                                    | PAYPAL, INC.                             |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 2211 NORTH FIRST STREET                  |                       |
| <b>City:</b>                                                                                                                                                                                    | SAN JOSE                                 |                       |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                               |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 95131                                    |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                          |                       |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                            |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 16448824                                 |                       |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                          |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (949)202-3001                            |                       |
| <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> |                                          |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 949-202-3000                             |                       |
| <b>Email:</b>                                                                                                                                                                                   | barbara.thompson@haynesboone.com         |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | HAYNES AND BOONE, LLP (70186) IP SECTION |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 2323 VICTORY AVENUE                      |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 700                                |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | DALLAS, TEXAS 75219                      |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 70481.185US04 (P963US4)                  |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | DANIEL S. KWOK                           |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Daniel S. Kwok/                         |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 09/13/2019                               |                       |
| <b>Total Attachments: 9</b>                                                                                                                                                                     |                                          |                       |
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source=70481.185US04\_Assignment\_eBay\_PayPal#page9.tif

**EXHIBIT A**  
**FORM OF RECORDABLE PATENT ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, eBay Inc., a Delaware corporation ("Assignor") hereby irrevocably assigns, transfers, conveys and delivers to PayPal, Inc., a Delaware corporation ("Assignee") all of Assignor's right, title and interest in and to the following: (a) the patents and patent applications listed in Exhibit A hereto, all patents that issue from such patent applications, and any counterparts, divisional, substitution, continuation, continuation-in-part, reissue, reexamination, extension, renewal or registrations of such patents, and any and all foreign counterparts thereof (including but not limited to all inventors certificates, utility models, invention registrations, or any other industrial property rights however denominated, as well as any foreign or U.S. intellectual property rights which claim priority to or claim priority from any of the foregoing) (collectively, the "Patents"); (b) all rights, privileges and protections of any kind whatsoever of Assignor accruing under any of the Patents provided under the applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world, including, but not limited to, the right to file foreign patent applications; (c) all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; (d) any and all claims and causes of action, with respect to any of the Patents, whether accruing before, on or after the date hereof, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement with the right but not the obligation to petition or sue for, or otherwise seek, such legal and equitable relief and to collect, or otherwise recover, any such damages; and (e) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives.

*(The remainder of this page is intentionally left blank. The signature pages follow.)*

IN WITNESS WHEREOF, Assignor caused this Patent Assignment to be duly executed on its behalf.

ASSIGNOR:

eBay Inc.

By: \_\_\_\_\_

Its: \_\_\_\_\_

S.V.P. GENERAL COUNSEL

Date: \_\_\_\_\_

JULY 17, 2015

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA ) ss.

COUNTY OF SANTA CLARA )

Before me, the undersigned authority, on this 17<sup>th</sup> day of July, 2015, personally appeared Michael Jacobson known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignor.

\_\_\_\_\_  
Notary Public



Melissa K Ritchie  
(Signature of Notary)

Melissa K Ritchie  
(Legibly Print or Stamp Name of Notary)

ACCEPTED BY:

ASSIGNEE:

PayPal, Inc.

By: [Signature]

Its: VP, Deputy General Counsel & Asst. Sec'y

Date: July 17, 2015

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA ) ss.

COUNTY OF SANTA CLARA )

Before me, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_\_\_, personally appeared \_\_\_\_\_ known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignee.

SEE ATTACHED FORM

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
(Signature of Notary)

\_\_\_\_\_  
(Legibly Print or Stamp Name of Notary)

SIGNATURE PAGE TO PATENT ASSIGNMENT AGREEMENT

**PATENT**  
**REEL: 050375 FRAME: 0389**

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

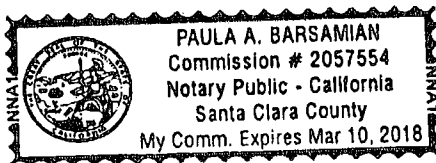
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )  
 County of Santa Clara )  
 On July 17, 2015 before me, Paula A. Barsamian, Notary Public  
 Date Here Insert Name and Title of the Officer  
 personally appeared Russell Elmer  
 Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Paula A. Barsamian  
 Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_ Document Date: \_\_\_\_\_  
 Number of Pages: \_\_\_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney In Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_  
 Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney In Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_  
 Signer Is Representing: \_\_\_\_\_

| APPLICATION NUMBER | TITLE                                                                                                                | STATUS  | DATE FILED   | PATENT NUMBER | GRANT DATE   |
|--------------------|----------------------------------------------------------------------------------------------------------------------|---------|--------------|---------------|--------------|
| 12475306           | ON-LINE REFERRAL                                                                                                     | Pending | May 29, 2009 |               |              |
|                    | METHOD, MEDIUM, AND SYSTEM FOR ADJUSTING PRODUCT RANKING SCORES BASED ON AN ADJUSTMENT FACTOR                        | Issued  | Jun 1, 2009  | 8065199       | Nov 22, 2011 |
| 12476072           |                                                                                                                      | Issued  | Jun 1, 2009  | 8370336       | Feb 5, 2013  |
|                    | METHODS AND SYSTEMS FOR DERIVING DEMAND METRICS USED IN ORDERING ITEM LISTINGS PRESENTED IN A SEARCH RESULTS PAGE    |         |              |               |              |
| 12476134           |                                                                                                                      | Issued  | Jun 9, 2009  | 8256671       | Sep 4, 2012  |
| 12481031           | Progressive Categorization and Treatment of Refund Abusers                                                           |         |              |               |              |
| 12484154           | METHOD AND SYSTEM FOR CLUSTERING                                                                                     | Pending | Jun 12, 2009 |               |              |
| 12491801           | A METHOD AND SYSTEM FOR DETECTING FRAUD                                                                              | Issued  | Jun 25, 2009 | 8548858       | Oct 1, 2013  |
|                    |                                                                                                                      | Issued  | Jun 25, 2009 | 8655763       | Feb 18, 2014 |
| 12492014           | MICROFINANCE FUNDS AGGREGATION FOR A RETAIL INVESTOR                                                                 |         |              |               |              |
| 12494652           | SECURE AUTHENTICATION BETWEEN MULTIPLE PARTIES                                                                       | Issued  | Jun 30, 2009 | 8825548       | Sep 2, 2014  |
| 12495646           | METHOD AND APPARATUS FOR A DATA PROCESSING SYSTEM                                                                    | Pending | Jun 30, 2009 |               |              |
|                    |                                                                                                                      | Issued  | Jun 30, 2009 | 8886569       | Nov 11, 2014 |
| 12495738           | SYSTEM AND METHOD FOR LOCATION BASED MOBILE COMMERCE                                                                 |         |              |               |              |
| 12495765           | SAME SCREEN QUICK PAY BUTTON                                                                                         | Pending | Jun 30, 2009 |               |              |
|                    |                                                                                                                      | Pending | Jul 6, 2009  |               |              |
| 12498209           | SYSTEMS AND METHODS FOR PREDICTING SALES OF ITEM LISTINGS                                                            |         |              |               |              |
|                    | CONTINGENT FEE ADVERTISEMENT PUBLISHING SERVICE PROVIDER                                                             | Issued  | Jul 16, 2009 | 9009064       | Apr 14, 2015 |
| 12504573           | FOR INTERACTIVE TV MEDIA SYSTEM AND METHOD                                                                           |         |              |               |              |
|                    | METHOD AND SYSTEM FOR INTEGRATING JAVA AND JAVASCRIPT TECHNOLOGIES                                                   | Issued  | Jul 17, 2009 | 8572554       | Oct 29, 2013 |
| 12505406           | BROWSER EMULATOR SYSTEM                                                                                              | Issued  | Jul 17, 2009 | 8924943       | Dec 30, 2014 |
| 12505411           | SYSTEM AND METHOD FOR TARGETED MERCHANDISING TO RETURNING USERS                                                      | Pending | Jul 29, 2009 |               |              |
| 12511473           | PAYMENT SERVICE INTEGRATION IN NETWORK-BASED MARKETPLACE TRANSACTIONS                                                | Pending | Aug 4, 2009  |               |              |
| 12535544           | METHOD AND SYSTEM TO AUTOMATE SOFTWARE TESTING USING SNIFFER SIDE AND BROWSER SIDE RECORDING AND A TOOLBAR INTERFACE | Issued  | Aug 13, 2009 | 8104020       | Jan 24, 2012 |

| APPLICATION NUMBER | TITLE                                                                                                     | STATUS  | DATE FILED   | PATENT NUMBER | GRANT DATE   |
|--------------------|-----------------------------------------------------------------------------------------------------------|---------|--------------|---------------|--------------|
| 12542527           | IDENTIFYING FRAUDULENT ACTIVITIES AND THE PERPETRATORS THEREOF                                            | Issued  | Aug 17, 2009 | 8959637       | Feb 17, 2015 |
| 12544241           | METHOD AND SYSTEM FOR LINKING AN ANONYMOUS ELECTRONIC TRADE ORDER TO AN IDENTITY OF A TRADER              | Issued  | Aug 20, 2009 | 8135649       | Mar 13, 2012 |
| 12544943           | SYSTEM AND METHOD FOR FEE DETERMINATION IN A COMMUNITY-BASED DISPUTE RESOLUTION                           | Pending | Aug 20, 2009 |               |              |
| 12554785           | SYSTEM AND METHOD FOR MANAGING ALLOCATION OF FUNDS BETWEEN A PLURALITY OF ENTITIES                        | Issued  | Sep 4, 2009  | 8484127       | Jul 9, 2013  |
|                    | SYSTEM AND METHOD FOR PROVIDING AUTOMATIC ADVERTISING AND CATEGORY DISTRIBUTION FOR ONLINE COMPUTER USERS | Pending | Sep 11, 2009 |               |              |
| 12558302           | CREATING REVENUE SOURCES USING PAYROLL PROCESSING                                                         | Pending | Sep 22, 2009 |               |              |
| 12564882           | CATALOG GENERATION BASED ON DIVERGENT LISTINGS                                                            | Issued  | Sep 28, 2009 | 8050979       | Nov 1, 2011  |
| 12568594           | SYSTEM AND METHOD FOR FACILITATING ELECTRONIC COMMERCE WITH CONTROLLED SPENDING OVER A NETWORK            | Pending | Sep 29, 2009 |               |              |
| 12568989           | NO AUTHENTICATION PAYMENT AND SEAMLESS AUTHENTICATION                                                     | Allowed | Sep 29, 2009 |               |              |
| 12569519           | USER INFORMATION POPULATION                                                                               | Pending | Sep 29, 2009 |               |              |
| 12569556           | SHORT CODES FOR BILL PAY                                                                                  | Issued  | Sep 29, 2009 | 8214289       | Jul 3, 2012  |
| 12569692           | MOBILE OR USER DEVICE AUTHENTICATION AND TRACKING                                                         | Issued  | Sep 29, 2009 | 8756657       | Jun 17, 2014 |
| 12569711           | NEAR FIELD COMMUNICATION AND NETWORK DATA/PRODUCT TRANSFER                                                | Pending | Sep 30, 2009 |               |              |
| 12570454           | NETWORK UPDATES OF TIME AND LOCATION                                                                      | Issued  | Sep 30, 2009 | 8781393       | Jul 15, 2014 |
| 12570544           | VERIFICATION AND LIMITS PROCESSING                                                                        | Pending | Sep 30, 2009 |               |              |
| 12571020           | SECURE TRANSACTIONS USING A POINT OF SALE DEVICE                                                          | Issued  | Sep 30, 2009 | 8630907       | Jan 14, 2014 |
| 12571290           | PAYMENT APPLICATION FRAMEWORK                                                                             | Issued  | Oct 1, 2009  | 8751387       | Jun 10, 2014 |
| 12572125           | METHOD AND SYSTEM TO EMBED APPLICATIONS IN A WEB PLATFORM                                                 | Pending | Oct 6, 2009  |               |              |
| 12574690           | SYSTEMS AND METHODS TO PROCESS A REQUEST RECEIVED AT AN APPLICATION PROGRAM INTERFACE                     | Issued  | Oct 8, 2009  | 9043401       | May 26, 2015 |
| 12576097           | METHOD AND APPARATUS FOR AUTHORIZING A PAYMENT VIA A REMOTE DEVICE                                        | Issued  | Oct 27, 2009 | 8185443       | May 22, 2012 |

| APPLICATION NUMBER | TITLE                                                                                                    | STATUS  | DATE FILED   | PATENT NUMBER | GRANT DATE   |
|--------------------|----------------------------------------------------------------------------------------------------------|---------|--------------|---------------|--------------|
| 12608288           | PAYMENT APPLICATION ON CLIENT DEVICE                                                                     | Pending | Oct 29, 2009 |               |              |
|                    |                                                                                                          | Pending | Oct 30, 2009 |               |              |
| 12610069           | METHODS AND SYSTEMS FOR COORDINATED COUPON DELIVERY                                                      | Issued  | Nov 10, 2009 | 8296187       | Oct 23, 2012 |
|                    | SYSTEM AND METHOD FOR STORAGE AND RETRIEVAL OF INFORMATION SUBJECT TO AUTHORIZATION BY A DATA CONTROLLER |         |              |               |              |
| 12616101           | INSTANT PAYOUT INCENTIVE SYSTEM                                                                          | Pending | Nov 16, 2009 |               |              |
| 12619483           | METHOD AND SYSTEM FOR PROVIDING INCENTIVES DURING A CONSUMER AND A MERCHANT PURCHASE TRANSACTION         | Pending | Nov 17, 2009 |               |              |
| 12620391           | PAYMENT USING UNIQUE PRODUCT IDENTIFIER CODES                                                            | Pending | Dec 9, 2009  |               |              |
| 12634478           | METHOD AND SYSTEM TO PRE-FETCH DATA IN A NETWORK                                                         | Issued  | Dec 10, 2009 | 7884827       | Feb 8, 2011  |
| 12635626           | DETERMINING USE OF A DISPLAY CHARACTERISTIC                                                              | Issued  | Dec 14, 2009 | 8725583       | May 13, 2014 |
| 12637649           | METHOD AND SYSTEM FOR MANAGING DATA TRANSACTION REQUESTS                                                 | Issued  | Dec 14, 2009 | 7941469       | May 10, 2011 |
| 12637662           | ON-LINE SAVINGS ACCOUNT                                                                                  | Pending | Dec 15, 2009 |               |              |
| 12638842           | METHOD AND SYSTEM TO AUTOMATICALLY REGENERATE SOFTWARE CODE                                              | Issued  | Dec 15, 2009 | 8291376       | Oct 16, 2012 |
| 12638913           | METHOD AND SYSTEM FOR ACCESS AUTHENTICATION                                                              | Issued  | Dec 15, 2009 | 8225387       | Jul 17, 2012 |
| 12638931           | ONLINE FRAUD PREVENTION USING GENETIC ALGORITHM SOLUTION                                                 | Issued  | Dec 15, 2009 | 7840520       | Nov 23, 2010 |
| 12638942           | METHOD AND A SYSTEM FOR KEYWORD VALUATION                                                                | Pending | Dec 15, 2009 |               |              |
| 12638945           | SYSTEMS AND METHODS FOR FACILITATING CALL REQUEST AGGREGATION OVER A NETWORK                             | Issued  | Dec 16, 2009 | 8683498       | Mar 25, 2014 |
| 12639555           | Dynamic Limit Funding Source                                                                             | Pending | Dec 17, 2009 |               |              |
| 12640988           | SECURE APPLICATION NETWORK                                                                               | Issued  | Dec 21, 2009 | 8387119       | Feb 26, 2013 |
| 12643656           | TRUSTED INTEGRITY MANAGER (TIM)                                                                          | Pending | Dec 21, 2009 |               |              |
| 12643972           | DYNAMIC HOSTED SHOPPING CART                                                                             | Issued  | Dec 29, 2009 | 8170921       | May 1, 2012  |
| 12648562           | SYSTEM AND METHOD TO ASSIST CUSTOMERS IN SELECTING COMPATIBLE COMPONENTS OF A PRODUCT                    | Pending | Jan 11, 2010 |               |              |
| 12685441           | SYSTEMS AND METHODS FOR FACILITATING USER IDENTITY VERIFICATION OVER A NETWORK                           | Issued  | Jan 13, 2010 | 8527758       | Sep 3, 2013  |
| 12687037           | SERVER SIDE DATA CACHE SYSTEM                                                                            | Issued  | Jan 15, 2010 | 8799409       | Aug 5, 2014  |

| APPLICATION NUMBER | TITLE                                                                                                                                                      | STATUS  | DATE FILED   | PATENT NUMBER | GRANT DATE   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|---------------|--------------|
| 12690748           | SYSTEMS AND METHODS FOR PROCESSING INCOMPLETE TRANSACTIONS OVER A NETWORK                                                                                  | Pending | Jan 20, 2010 |               |              |
|                    |                                                                                                                                                            | Issued  | Jan 22, 2010 | 8516437       | Aug 20, 2013 |
| 12692015           | SYSTEM AND METHOD FOR CREATING, MANAGING, AND REUSING SCHEMA TYPE DEFINITIONS IN SERVICES ORIENTED ARCHITECTURE SERVICES, GROUPED IN THE FORM OF LIBRARIES |         |              |               |              |
|                    | METHODS AND SYSTEMS FOR SIMULATING A SEARCH TO GENERATE AN OPTIMIZED SCORING FUNCTION                                                                      | Pending | Jan 26, 2010 |               |              |
| 12694191           | SYSTEMS AND METHODS FOR FACILITATING ACCOUNT VERIFICATION                                                                                                  | Pending | Jan 27, 2010 |               |              |
| 12694945           | OVER A NETWORK                                                                                                                                             |         |              |               |              |
|                    | TARGETED MULTI-DIMENSION DATA EXTRACTION FOR REAL-TIME ANALYSIS                                                                                            | Pending | Feb 15, 2010 |               |              |
| 12705940           | RECOMMENDATIONS BASED ON BRANDING                                                                                                                          | Pending | Feb 17, 2010 |               |              |
| 12707618           | AUCTION WITH INTEREST RATE BIDDING                                                                                                                         | Issued  | Feb 22, 2010 | 8015103       | Sep 6, 2011  |
| 12710294           | TEMPORARY SESSION DATA STORAGE                                                                                                                             | Issued  | Feb 25, 2010 | 8190564       | May 29, 2012 |
| 12712514           | SYSTEM AND METHOD TO UNIFORMLY MANAGE OPERATIONAL LIFE CYCLES AND SERVICE LEVELS                                                                           | Pending | Feb 26, 2010 |               |              |
| 12714425           | CLOUD COMPUTING: UNIFIED MANAGEMENT CONSOLE FOR SERVICES AND RESOURCES IN A DATA CENTER                                                                    | Pending | Feb 26, 2010 |               |              |
| 12714429           | SECURE EXPANDABLE ADVERTISEMENTS USING AN API AND CROSS-DOMAIN COMMUNICATIONS                                                                              | Issued  | Mar 2, 2010  | 8452710       | May 28, 2013 |
| 12716022           | DOCUMENT PROCESSING USING RETRIEVAL PATH DATA                                                                                                              | Pending | Mar 3, 2010  |               |              |
| 12717082           | DOCUMENT PROCESSING USING RETRIEVAL PATH DATA                                                                                                              | Pending | Mar 3, 2010  |               |              |
| 12717088           | DOCUMENT PRESENTATION USING RETRIEVAL PATH DATA                                                                                                            | Pending | Mar 3, 2010  |               |              |
| 12717091           | BUSINESS RULES MANAGEMENT SYSTEM                                                                                                                           | Issued  | Mar 3, 2010  | 8689175       | Apr 1, 2014  |
| 12717107           | Dynamic Pattern Insertion Layer                                                                                                                            | Issued  | Mar 3, 2010  | 8707048       | Apr 22, 2014 |
| 12718430           | SECURE IDENTITY BINDING (SIB)                                                                                                                              | Allowed | Mar 5, 2010  |               |              |
| 12718912           | SYSTEM AND METHOD TO PROVIDE QUERY LINGUISTIC SERVICE                                                                                                      | Issued  | Mar 5, 2010  | 8949265       | Feb 3, 2015  |
| 12718929           | DISTRIBUTED STREAM PROCESSING                                                                                                                              | Pending | Mar 5, 2010  |               |              |
| 12718934           | METHOD AND SYSTEM FOR ENTERPRISE-WIDE MIGRATION                                                                                                            | Issued  | Mar 18, 2010 | 8793368       | Jul 29, 2014 |
| 12727109           | FREE-FORM ENTRIES DURING PAYMENT PROCESSES                                                                                                                 | Issued  | Mar 23, 2010 | 8554280       | Oct 8, 2013  |

| APPLICATION NUMBER | TITLE                                                                                                        | STATUS    | DATE FILED   | PATENT NUMBER | GRANT DATE   |
|--------------------|--------------------------------------------------------------------------------------------------------------|-----------|--------------|---------------|--------------|
| 12730567           | NON-NUMERIC PERSONAL IDENTIFICATION                                                                          | Issued    | Mar 24, 2010 | 8838987       | Sep 16, 2014 |
|                    | HARDWARE-BASED ZERO-KNOWLEDGE STRONG AUTHENTICATION                                                          | Pending   | Mar 25, 2010 |               |              |
| 12732168           | (HOKSA)                                                                                                      | Pending   | Mar 26, 2010 |               |              |
| 12748045           | Terminology Management Database                                                                              | Pending   | Mar 31, 2010 |               |              |
| 12751733           | TRUSTED REMOTE ATTESTATION AGENT (TRAA)                                                                      | Issued    | Mar 31, 2010 | 8244641       | Aug 14, 2012 |
| 12751861           | A METHOD AND APPARATUS FOR DATA RECIPIENT STORAGE AND RETRIEVAL OF DATA USING A NETWORK COMMUNICATION DEVICE | Issued    | Mar 31, 2010 | 8539569       | Sep 17, 2013 |
| 12751986           | SYSTEMS AND METHODS FOR FACILITATING USER AUTHENTICATION OVER A NETWORK                                      | Pending   | Mar 31, 2010 |               |              |
| 12752011           | CHARGEBACK RESPONSE TOOL                                                                                     | Pending   | Mar 31, 2010 |               |              |
| 12752028           | SERVICE LEVEL AGREEMENT BASED STORAGE ACCESS                                                                 | Pending   | Apr 1, 2010  |               |              |
|                    | SYSTEM AND METHOD FOR MANAGING ALLOCATION OF FUNDS                                                           | Pending   |              |               |              |
| 12752976           | BETWEEN A PLURALITY OF ENTITIES                                                                              | Pending   | Apr 1, 2010  |               |              |
| 12752985           | PAYMENT APPLICATION FRAMEWORK                                                                                | Issued    | Apr 1, 2010  | 8650614       | Feb 11, 2014 |
| 12752988           | INTERACTIVE PHISHING DETECTION (IPD)                                                                         | Pending   | Apr 5, 2010  |               |              |
| 12754006           | TWO DEVICE AUTHENTICATION                                                                                    | Pending   | Apr 5, 2010  |               |              |
|                    | SYSTEMS AND METHODS FOR FACILITATING TAX STATUS CATEGORIZATION OVER A NETWORK                                | Pending   | Apr 5, 2010  |               |              |
| 12754035           | WIDGET FRAMEWORK, REAL-TIME SERVICE ORCHESTRATION, AND REAL-TIME RESOURCE AGGREGATION                        | Pending   | Apr 6, 2010  |               |              |
| 12754564           | METHODS AND SYSTEMS PROVIDING A MULTI-MERCHANT REWARDS PLATFORM                                              | Issued    | Apr 6, 2010  | 8803660       | Aug 12, 2014 |
| 12755209           | HANDHELD DEVICE FOR ON-SITE DATACENTER MANAGEMENT                                                            | Pending   | Apr 6, 2010  |               |              |
| 12755289           | METHOD AND SYSTEM FOR SYNCHRONOUS AND ASYNCHRONOUS MONITORING                                                | Pending   | Apr 6, 2010  |               |              |
| 12755296           | VALIDATION OF INTERNAL DATA IN BATCH APPLICATIONS                                                            | Pending   | Apr 6, 2010  |               |              |
| 12755300           | COMPUTERIZED SYSTEM FOR FACILITATING TRANSACTIONS BETWEEN PARTIES ON THE INTERNET USING E-MAIL               | Abandoned | Apr 12, 2010 |               |              |
| 12758711           |                                                                                                              |           |              |               |              |

PATENT