

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4590003

|   |                              |                       |
|---|------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |                       |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |                       |
| <b>CONVEYING PARTY DATA</b>   |                              |                       |
|   | <b>Name</b>                  | <b>Execution Date</b> |
|   | VERISIGN, INC.               | 08/11/2010            |
| <b>RECEIVING PARTY DATA</b>   |                              |                       |
| <b>Name:</b>  | SYMANTEC CORPORATION         |                       |
| <b>Street Address:</b>  | 350 ELLIS STREET             |                       |
| <b>City:</b>  | MOUNTAIN VIEW                |                       |
| <b>State/Country:</b>   | CALIFORNIA                   |                       |
| <b>Postal Code:</b>   | 94043                        |                       |
| <b>PROPERTY NUMBERS Total: 5</b>  |                              |                       |
| <b>Property Type</b>  | <b>Number</b>                |                       |
| <b>Application Number:</b>  | 09132289                     |                       |
| <b>Application Number:</b>  | 10232624                     |                       |
| <b>Application Number:</b>  | 09107655                     |                       |
| <b>Application Number:</b>  | 09107331                     |                       |
| <b>Application Number:</b>  | 09298688                     |                       |
| <b>CORRESPONDENCE DATA</b>  |                              |                       |
| <b>Fax Number:</b>  | (202)663-6363                |                       |
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| <b>Email:</b>   | raquel.garcia@wilmerhale.com |                       |
| <b>Correspondent Name:</b>  | WILMERHALE, LLP              |                       |
| <b>Address Line 1:</b>  | 1875 PENNSYLVANIA AVENUE, NW |                       |
| <b>Address Line 4:</b>  | WASHINGTON, D.C. 20006       |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 1762030.00121US1             |                       |
| <b>NAME OF SUBMITTER:</b>   | RAQUEL GARCIA                |                       |
| <b>SIGNATURE:</b>   | /RAQUEL GARCIA/              |                       |
| <b>DATE SIGNED:</b>   | 09/12/2017                   |                       |
| <b>Total Attachments: 12</b>  |                              |                       |
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**PATENT ASSIGNMENT AGREEMENT**

This PATENT ASSIGNMENT AGREEMENT ("Assignment") dated as of August 9, 2010 (the "Effective Date"), is made by and between VERISIGN, INC., a Delaware corporation ("Assignor"), and SYMANTEC CORPORATION, a Delaware corporation ("Assignee").

**WITNESSETH:**

WHEREAS, Assignor and Assignee are parties to that certain Acquisition Agreement, dated as of May 19, 2010 (the "Acquisition Agreement"), pursuant to which Assignor, Assignee and certain of their respective Subsidiaries have entered into that certain Bill of Sale and Assignment and Assumption Agreement, dated as of August 9, 2010 ("Bill of Sale");

WHEREAS, pursuant to the Bill of Sale, Assignee has agreed to purchase and accept, and Assignor has agreed to sell, transfer, convey and assign to Assignee all of Assignor's right, title and interest in, to and under the Patents included in the Transferred Intellectual Property (including, without limitation, the Patents listed in Schedule A hereto) (the "Patents").

NOW, THEREFORE, in consideration of the premises and covenants set forth herein and in the Acquisition Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Assignment. Assignor hereby sells, transfers, conveys and assigns to Assignee, its successors and assigns, and Assignee hereby purchases and accepts from Assignor, all of Assignor's right, title and interest in, to and under the Patents, together with the right to sue or recover and retain damages and costs and attorneys' fees for past, present and future infringement of the Patents, or any patent based upon or claiming priority to the Patents, and to fully and entirely stand in the place of the Assignor in all matters related to the Patents.

2. Cooperation. This Assignment has been executed and delivered by the Assignor for the purpose of recording the assignment herein with the appropriate government entity. At Assignee's sole cost and expense, Assignor shall execute and deliver such other documents and take all other commercially reasonable actions which Assignee, its successors and/or assigns, may reasonably request to effect the terms of this Assignment, including its recordation in relevant state and national patent offices.

3. Warranties. EXCEPT AS EXPRESSLY SET FORTH IN THE ACQUISITION AGREEMENT, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF NONINFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS, OR REGARDING THE SCOPE, VALIDITY, OR ENFORCEABILITY OF ANY TRANSFERRED INTELLECTUAL PROPERTY RIGHTS.

4. General Provisions. Capitalized terms used herein but not defined herein shall have the meanings set forth in the Acquisition Agreement. This Assignment, Schedule A hereto and the Acquisition Agreement constitute the entire understanding and agreement of the parties hereto with respect to the subject matter hereof and supersede all prior and contemporaneous agreements or understandings, inducements or conditions, express or implied, written or oral, between and among the parties with respect hereto. In the event of any conflict between the terms of this Assignment and the terms of the Acquisition Agreement, the terms of the Acquisition Agreement shall control. This Assignment may not be supplemented, altered, or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Assignment shall not waive any of its rights under such terms or provisions. This Assignment shall bind and inure to the benefit of the respective parties and their assigns, transferees and successors.

5. Governing Law; Jurisdiction and Venue. This Assignment shall be governed by, and construed in accordance with, the Laws of the State of New York, without regard to any conflict of laws provisions thereof that would result in the application of the laws of another jurisdiction. Both Assignee and Assignor hereby consent to and submit to the exclusive jurisdiction and venue of the federal and state courts located in the State of New York for enforcement or interpretation of this Assignment, and for any disputes under or arising out of this Assignment.

6. Counterparts. This Assignment may be executed in counterparts, each of which will be an original as regards any party whose signature appears thereon and both of which together will constitute one and the same instrument.

[Remainder of this page intentionally left blank. Signature page follows.]

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by its respective duly authorized representative as of the Effective Date.

VeriSign, Inc.

By Richard H. Goshorn  
Name: Richard H. Goshorn  
Title: Secretary

Symantec Corporation

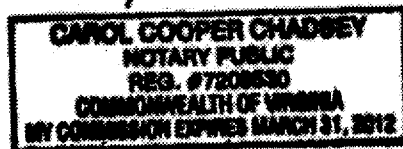
By \_\_\_\_\_  
Name:  
Title:

STATE OF Virginia )  
COUNTY OF Loudoun ) ss.:

On this 14th day of August 2010, before me, the undersigned, a notary public in and for said state and county, personally appeared Richard H. Goshorn, personally known to me (or proved to me on the basis of satisfactory evidence), to be the individual who executed the foregoing instrument on behalf of VeriSign Inc., a Delaware corporation, as the Secretary of such company and acknowledged to me that the execution and delivery of said instrument was duly authorized by said company.

Carol Cooper Chadsey  
Notary Public

(Affix Seal Below)



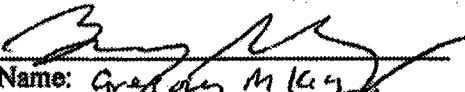
Patent Assignment - VRSN to SYMC - Signature Page

IN WITNESS WHEREOF, Assignor and Assignee have caused  
this instrument to be executed by its respective duly authorized representative as  
of the Effective Date.

VeriSign, Inc.

By \_\_\_\_\_  
Name:  
Title:

Symantec Corporation

By   
Name: Gregory M. Kay  
Title: Sr. Director, Legal

*[Signature Page to Patent Assignment Agreement]*

## ACKNOWLEDGMENT

State of California

County of Santa Clara

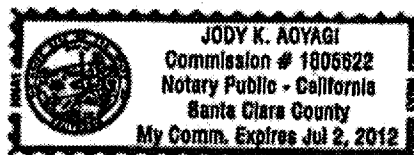
On August 5, 2010 before me, Jody K. Anyagi, Notary Public  
(Insert name and title of the officer)

personally appeared Gregory M. King  
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 Jody K. Anyagi (Seal)



PATENT

REEL: 043560 FRAME: 0277

# Schedule A

## Patents and Patent Applications

| No  | Title   | Country | Application No.   | Filing Date | Patent No. | Issue Date | Status   | Substatus             |
|-----|---|---------|-------------------|-------------|------------|------------|----------|-----------------------|
| 1.  | One Time Password   | CA      | 2583741           | 10/17/2005  |            |            | Pending  |                       |
| 2.  | One Time Password   | JP      | 2007-536963       | 10/17/2005  |            |            | Pending  | Published             |
| 3.  | One Time Password   | PC      | PCT/US2005/037113 | 10/17/2005  |            |            | Inactive | Expired               |
| 4.  | Method and System to Generate HMAC-Based One Time Password                          | US      | 60/618600         | 10/15/2004  |            |            | Inactive | Expired               |
| 5.  | One Time Password   | US      | 11/665027         | 5/6/2009    |            |            | Pending  | Published             |
| 6.  | Time and Event Based One Time Password  | CA      | 2649686           | 3/27/2007   |            |            | Pending  |                       |
| 7.  | Time and Event Based One Time Password  | JP      | 2009-506502       | 3/27/2007   |            |            | Pending  |                       |
| 8.  | Time and Event Based One Time Password  | PC      | PCT/US07/07483    | 3/27/2007   |            |            | Pending  | Published             |
| 9.  | Time and Event Based One Time Password  | US      | 11/407996         | 4/21/2006   |            |            | Pending  | Published             |
| 10. | Risk Management for Public Key Management Infrastructure Using Digital Certificates | US      | 09/132289         | 8/11/1998   | 6324645    | 11/27/2001 | Granted  |                       |
| 11. | System And Method For Network Based Fraud And Authentication Services               | CA      | 2641995           | 2/12/2007   |            |            | Pending  | Nat. Phase            |
| 12. | System And Method For Network Based Fraud And Authentication Services               | JP      | 2008-554432       | 2/12/2007   |            |            | Pending  | Examination requested |
| 13. | System And Method For Network Based Fraud And Authentication Services               | PC      | PCT/US07/03822    | 2/12/2007   |            |            | Pending  | Nat. Phase            |
| 14. | Identity Protection   | US      | 60/771861         | 2/10/2006   |            |            | Inactive | Expired               |
| 15. | System and Method for Network-Based Fraud and Authentication Services               | US      | 11/705064         | 2/12/2007   |            |            | Pending  | Published             |
| 16. | Token Sharing System and Method   | CA      | 2607562           | 5/5/2006    |            |            | Pending  |                       |
| 17. | Token Sharing System and Method   | JP      | 2008-510256       | 5/5/2006    |            |            | Pending  | Examination requested |
| 18. | Token Sharing System and Method   | PC      | PCT/US2006/017404 | 5/5/2006    |            |            | Inactive | Expired               |
| 19. | Token Sharing System and Method   | US      | 60/678214         | 5/6/2005    |            |            | Inactive | Expired               |
| 20. | Token Sharing System and Method   | US      | 11/416227         | 5/5/2006    |            |            | Pending  | Published             |
| 21. | Method and System of Securely Escrowing Private Keys in a Public Key                | BR      | PI0313958.1       | 9/2/2003    |            |            | Pending  |                       |

| No  | Title  | Country | Application No.   | Filing Date | Patent No. | Issue Date | Status   | Substatus             |
|-----|--|---------|-------------------|-------------|------------|------------|----------|-----------------------|
|     | Infrastructure   |         |                   |             |            |            |          |                       |
| 22. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | CA      | 2497561           | 9/2/2003    |            |            | Pending  |                       |
| 23. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | CR      | 7773              | 9/2/2003    |            |            | Pending  | Published             |
| 24. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | JP      | 2004-534408       | 9/2/2003    |            |            | Pending  | Published             |
| 25. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | MX      | PA/a/2005/002417  | 9/2/2003    | 257771     | 6/9/2008   | Granted  |                       |
| 26. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | PC      | PCT/US03/27342    | 9/2/2003    |            |            | Inactive | Expired               |
| 27. | Method and System of Securely Escrowing Private Keys in a Public Key Infrastructure                    | US      | 10/232624         | 9/3/2002    | 6931133    | 8/16/2005  | Granted  |                       |
| 28. | Hybrid Authentication  | PC      | PCT/US04/18446    | 6/10/2004   |            |            | Inactive | Expired               |
| 29. | Hybrid Authentication  | US      | 60/477405         | 6/11/2003   |            |            | Inactive | Expired               |
| 30. | Hybrid Authentication  | US      | 10/664501         | 6/10/2004   |            |            | Pending  | Published             |
| 31. | Countering Credentials Copying   | PC      | PCT/US2001/025927 | 8/16/2001   |            |            | Inactive | Expired               |
| 32. | Countering Credentials Theft   | US      | 60/226429         | 8/16/2000   |            |            | Inactive | Expired               |
| 33. | Countering Credentials Copying   | US      | 09/921265         | 8/1/2001    |            |            | Inactive | Abandoned             |
| 34. | Authenticated Communication Using a Shared Unpredictable Secret  | US      | 11/340948         | 1/27/2006   |            |            | Pending  | Published             |
| 35. | System for Rating Trustworthiness of Sites on a Computer Network and for Managing Personal Information | US      | 60/143387         | 7/12/1999   |            |            | Inactive | Expired               |
| 36. | Token Provisioning   | CA      | 2556155           | 2/23/2005   |            |            | Pending  |                       |
| 37. | Token Provisioning   | JP      | 2007-500914       | 2/23/2005   |            |            | Pending  | Allowed               |
| 38. | Token Provisioning   | PC      | PCT/US05/05482    | 2/23/2005   |            |            | Inactive | Expired               |
| 39. | Token Provisioning   | US      | 10/782751         | 2/23/2004   | 7548620    | 6/16/2009  | Granted  |                       |
| 40. | Token Provisioning   | US      | 12/468144         | 5/19/2009   |            |            | Pending  | Published             |
| 41. | Token Authentication System And Method   | CA      | 2556148           | 2/23/2005   |            |            | Pending  | Examination requested |
| 42. | Token Authentication System And Method   | JP      | 2007-500913       | 2/23/2005   |            |            | Pending  | Published             |
| 43. | Token Authentication System And Method   | PC      | PCT/US2005/005461 | 2/23/2005   |            |            | Inactive | Expired               |
| 44. | Token Authentication   | US      | 60/546194         | 2/23/2004   |            |            | Inactive | Expired               |

| No  | Title  | Country  | Application No.   | Filing Date | Patent No. | Issue Date | Status   | Substatus           |
|-----|--|----------|-------------------|-------------|------------|------------|----------|---------------------|
|     | System   |          |                   |             |            |            |          |                     |
| 45. | Token Authentication System and Method   | US       | 10/590415         | 10/20/2006  |            |            | Pending  | Published           |
| 46. | Digital Certificate Cross-Referencing  | US       | 09/107655         | 6/30/1998   | 6615347    | 9/2/2003   | Granted  |                     |
| 47. | Defining Content Zones   | PC       | PCT/US01/09628    | 3/26/2001   |            |            | Inactive | Expired             |
| 48. | Defining Content Zones   | US       | 09/311607         | 5/13/1999   |            |            | Inactive | Abandoned           |
| 49. | Web Site Authentication  | CA       | 2667341           | 11/5/2007   |            |            | Pending  |                     |
| 50. | Web Site Authentication  | PC       | PCT/US2007/083624 | 11/5/2007   |            |            | Pending  | Published           |
| 51. | System and Method for Website Authentication Using a Shared Secret   | US       | 11/593036         | 11/6/2006   |            |            | Pending  | Published           |
| 52. | Blinded Authentication of Digital Certificate Subscribers  | US       | 09/240913         | 1/29/1999   |            |            | Inactive | Abandoned           |
| 53. | Local Hosting of Digital Certificate Services  | US       | 09/107331         | 6/30/1998   | 6564320    | 5/13/2003  | Granted  |                     |
| 54. | Server-Assisted Regeneration of a Strong Secret from a Weak Secret   |          | 2376361           | 6/29/2000   |            |            | Pending  |                     |
| 55. | Server-Assisted Regeneration of a Strong Secret from a Weak Secret   | CA<br>PC | PCT/US00/18546    | 6/29/2000   |            |            | Inactive | Expired             |
| 56. | Password-Based Encryption and Recovery Protocol Immune to Password Guessing and Server Compromise                          | US       | 60/141571         | 6/29/1999   |            |            | Inactive | Expired             |
| 57. | Secure Generation and Regeneration of a Strong Secret from a Weak Secret Assisted by Multiple Servers                      | US       | 60/167453         | 11/23/1999  |            |            | Inactive | Expired             |
| 58. | Server-Assisted Regeneration of a Strong Secret from a Weak Secret   | US       | 60/168834         | 3/10/2000   |            |            | Inactive | Expired             |
| 59. | Server-Assisted Regeneration of a Strong Secret from a Weak Secret   | US       | 09/574687         | 5/17/2000   | 6629356    | 12/7/2004  | Granted  |                     |
| 60. | Rights Trading System  | CA       | 2520961           | 3/31/2004   |            |            | Pending  |                     |
| 61. | Rights Trading System  | JP       | 2006-509474       | 3/31/2004   |            |            | Inactive | Abandoned-Published |
| 62. | Rights Management System   | PC       | PCT/US04/009703   | 3/31/2004   |            |            | Inactive | Expired             |
| 63. | Rights Trading System  | US       | 10/402959         | 4/1/2003    |            |            | Inactive | Abandoned-Published |
| 64. | Method and System for Registering and Automatically Retrieving Digital-Certificates in Voice Over Internet Protocol (VOIP) | JP       | 2004-519672       | 6/30/2003   |            |            | Pending  | Allowed             |

| No  | Title   | Country | Application No.   | Filing Date | Patent No. | Issue Date | Status   | Substatus |
|-----|---|---------|-------------------|-------------|------------|------------|----------|-----------|
|     | Communications  |         |                   |             |            |            |          |           |
| 65. | Method and System for Registering and Automatically Retrieving Digital-Certificates in Voice Over Internet Protocol (VOIP) Communications | PC      | PCT/US03/20417    | 6/30/2003   |            |            | Inactive | Expired   |
| 66. | Method and System for Registering and Automatically Retrieving Digital-Certificates in Voice Over Internet Protocol (VOIP) Communications | US      | 10/190849         | 7/9/2002    | 6842449    | 1/11/2005  | Granted  |           |
| 67. | Key Mapping and Aliasing  | US      | 60/083323         | 4/28/1998   |            |            | Inactive | Expired   |
| 68. | Secure Mapping and Aliasing of Private Keys Used in Public Key Cryptography   | US      | 09/298688         | 4/23/1999   | 6553493    | 4/22/2003  | Granted  |           |
| 69. | Entity Authentication in a Shared Hosting Computer Network Environment  | PC      | PCT/US02/24340    | 7/31/2002   |            |            | Inactive | Expired   |
| 70. | Organizational Authentication in Shared Hosting SSL Environments  | US      | 60/309203         | 7/31/2001   |            |            | Expired  |           |
| 71. | Entity Authentication in a Shared Hosting Computer Network Environment  | US      | 10/071548         | 2/8/2002    | 7231659 B2 | 6/12/2007  | Granted  |           |
| 72. | Machine, Method and Article of Manufacture for Client-Side One-Time Digital Signing System  | US      | 60/371460         | 4/10/2002   |            |            | Inactive | Expired   |
| 73. | Credential Management System and Method   | US      | 12/186651         | 8/6/2008    |            |            | Pending  | Published |
| 74. | Credential Management System and Method   | PC      | PCT/US2009/052923 | 8/6/2009    |            |            | Pending  | Published |
| 75. | Single Action Authentication via Mobile Devices   | US      | 12/635252         | 12/10/2009  |            |            | Pending  |           |
| 76. | Service Assisted Secret Provisioning  | US      | 12/650158         | 12/30/2009  |            |            | Pending  |           |
| 77. | Data Replication Across Enterprise Boundaries   | US      | 12/649829         | 12/30/2009  |            |            | Pending  |           |
| 78. | A Method and Apparatus to Provide Authentication Using an Authentication Card   | BR      | PI0709392-B       | 3/14/2007   |            |            | Pending  |           |
| 79. | A Method and Apparatus to Provide Authentication Using an Authentication Card   | PC      | PCT/US2007/006549 | 3/14/2007   |            |            | Inactive | Expired   |
| 80. | Method and Apparatus  | US      | 11/376678         | 3/14/2006   | 7347366    | 3/25/2008  | Granted  |           |

| No  | Title  | Country | Application No.   | Filing Date | Patent No. | Issue Date | Status   | Substatus |
|-----|--|---------|-------------------|-------------|------------|------------|----------|-----------|
|     | to Provide Authentication Using an Authentication Card                                   |         |                   |             |            |            |          |           |
| 81. | A Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices | BR      | PI0712152-0       | 6/11/2007   |            |            | Pending  |           |
| 82. | A Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices | CA      | 2652084           | 6/11/2007   |            |            | Pending  |           |
| 83. | A Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices | JP      | 2009-514567       | 6/11/2007   |            |            | Pending  | Published |
| 84. | A Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices | PC      | PCT/US2007/070916 | 6/11/2007   |            |            | Inactive | Expired   |
| 85. | Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices   | US      | 60/812386         | 6/9/2006    |            |            | Inactive | Expired   |
| 86. | Method and Apparatus to Provide Authentication and Privacy with Low Complexity Devices   | US      | 11/761273         | 6/11/2007   |            |            | Pending  | Published |
| 87. | A Method And Apparatus For Mobile Time-Based UI For VIP                                  | PC      | PCT/US2009/062588 | 10/29/2009  |            |            | Pending  |           |
| 88. | Method and Apparatus for Mobile Time-Based UI for VIP                                    | US      | 12/260997         | 10/29/2008  |            |            | Pending  |           |
| 89. | Method and System for Authenticating Internet Communications                             | US      | 61/179335         | 5/18/2009   |            |            | Pending  |           |
| 90. | Method and System for Weighting Transactions in a Fraud Detection System                 | US      | 12/604208         | 10/22/2009  |            |            | Pending  |           |
| 91. | Streamlined Process for Enrollment of Multiple Digital Certificates                      | US      | 12/710665         | 2/23/2010   |            |            | Pending  |           |
| 92. | Method and System for Clustering Transactions in a Fraud Detection System                | US      | 12/604220         | 10/22/2009  |            |            | Pending  |           |
| 93. | Methods and Apparatus for Provisioning Devices with Secrets                              | US      | 12/651255         | 12/31/2009  |            |            | Pending  |           |
| 94. | Method and System to Combine Multiple Digital Certificates                               | US      | 12/639765         | 12/16/2009  |            |            | Pending  |           |

| No   | Title   | Country | Application No.  | Filing Date | Patent No. | Issue Date | Status   | Substatus |
|------|---|---------|------------------|-------------|------------|------------|----------|-----------|
|      | Using the Subject Alternative Name Extension  |         |                  |             |            |            |          |           |
| 95.  | Method and System for Co-Termination of Digital Certificates  | US      | 12/846834        | 12/23/2009  |            |            | Pending  |           |
| 96.  | Infrequent Users Fraud Detection  | US      | 12/626061        | 11/25/2009  |            |            | Pending  |           |
| 97.  | Alternative Approach to Deployment and Payment for Digital Certificates   | US      | 12/846515        | 12/23/2009  |            |            | Pending  |           |
| 98.  | Method and Apparatus to Provide Public Key Authentication with Low Complexity Devices   | US      | 11/336255        | 1/20/2006   |            |            | Pending  |           |
| 99.  | Method and System for Provisioning Multiple Digital Certificates  | US      | 12/639771        | 12/16/2009  |            |            | Pending  |           |
| 100. | Method and System For Providing Security Seals On Web Pages   | US      | 12/750007        | 3/30/2010   |            |            | Pending  |           |
| 101. | Method and System For Providing Security Seals On Web Pages   | US      | 61/264179        | 11/24/2009  |            |            | Pending  |           |
| 102. | Dynamic Web Services Systems and Method For Use of Personal Trusted Devices and Identity Tokens                                       | US      | 60/747,703       | 5/19/2006   |            |            | Inactive | Expired   |
| 103. | Dynamic Web Services Systems and Method For Use of Personal Trusted Devices and Identity Tokens                                       | US      | 11/750,077       | 5/17/2007   |            |            | Pending  | Published |
| 104. | Dynamic Web Services Systems and Method For Use of Personal Trusted Devices and Identity Tokens                                       | WO      | PCT/US07/69253   | 5/18/2007   |            |            | Inactive | Expired   |
| 105. | Method And System For Secure Storage, Management And Linkage Of Personal Authentication Credentials Data Over A Network               | US      | 60/176020        | 1/14/2000   |            |            | Inactive | Expired   |
| 106. | Method And System For Secure Storage, Management And Linkage Of Personal Authentication Credentials Data Over A Network               | US      | 09/759225        | 1/16/2001   | 7155739    | 12/26/2006 | Granted  |           |
| 107. | Method And System For Secure Registration, Storage, Management and Linkage of Personal Authentication Credentials Data Over a network | PC      | PCT/US2001/01249 | 1/16/2001   |            |            | Inactive | Expired   |

| No  | Title   | Country | Application No. | Filing Date | Patent No. | Issue Date | Status         | Substatus |
|-----|---|---------|-----------------|-------------|------------|------------|----------------|-----------|
| 108 | IDF2010-1450: A/B Testing for Seal 2.0 Programs   | US      |                 |             |            |            | Not yet filed. |           |
| 109 | Data Replication Between Multiple Online Databases  | US      |                 |             |            |            | Not yet filed. |           |
| 110 | IDF2009-035: Massive Credential Provisioning for Portable Devices with Lazy Activation            | US      |                 |             |            |            | Not yet filed. |           |
| 111 | IDF2009-036: SMS OTP with Server Generated Credential   | US      |                 |             |            |            | Not yet filed. |           |
| 112 | IDF2009-041: Midterm Upgrade of Digital Certificates  | US      |                 |             |            |            | Not yet filed. |           |
| 113 | IDF2009-042: Follow the Sun Support Model by Grouping Multiple Regional Jurisdictions             | US      |                 |             |            |            | Not yet filed. |           |
| 114 | IDF2009-043: Streamlined Process for Automatic Administrator ID Approval and Privilege Assignment | US      |                 |             |            |            | Not yet filed. |           |
| 115 | IDF2009-047: Streamlined CSR Generation, Certificate Enrollment, and Certificate Delivery         | US      |                 |             |            |            | Not yet filed. |           |
| 116 | IDF2009-048: Unit Allocation Across Enterprise Customer's Organizational Hierarchy                | US      |                 |             |            |            | Not yet filed. |           |
| 117 | IDF2009-49: Multiple User Access to Certificate Center Enterprise Account                         | US      |                 |             |            |            | Not yet filed. |           |
| 118 | IDF2009-050: Streamline Authentication Process for Digital Certificates                           | US      |                 |             |            |            | Not yet filed. |           |
| 119 | IDF2009-051: Certificate Discovery  | US      |                 |             |            |            | Not yet filed. |           |
| 120 | IDF2009-052: Resolution of Disputes with Seal Users   | US      |                 |             |            |            | Not yet filed. |           |
| 121 | IDF2009-053: New Applications of Internet-Based Seal  | US      |                 |             |            |            | Not yet filed. |           |
| 122 | IDF2009-054: One Click Authentication via Mobile Device (Client side)                             | US      |                 |             |            |            | Not yet filed. |           |