

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6055659

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                            |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                     |
| DANIEL R. MCPHERSON   | 04/05/2016                                |
| MATTHEW A. THOMAS   | 04/11/2016                                |
| QI ALFRED CHEN  | 05/29/2016                                |
| ERIC M. OSTERWEIL   | 04/11/2016                                |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | VERISIGN, INC.                            |
| <b>Street Address:</b>  | 12061 BLUEMONT WAY                        |
| <b>City:</b>  | RESTON                                    |
| <b>State/Country:</b>   | VIRGINIA                                  |
| <b>Postal Code:</b>   | 20190                                     |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                             |
| <b>Application Number:</b>  | 15469404                                  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (703)997-4905                             |
| <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>   | 703-917-0000                              |
| <b>Email:</b>   | docketing@mh2law.com                      |
| <b>Correspondent Name:</b>  | MH2 TECHNOLOGY LAW GROUP LLP (W/VERISIGN) |
| <b>Address Line 1:</b>  | 1951 KIDWELL DRIVE                        |
| <b>Address Line 2:</b>  | SUITE 310                                 |
| <b>Address Line 4:</b>  | TYSONS CORNER, VIRGINIA 22182             |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 11569.293                                 |
| <b>NAME OF SUBMITTER:</b>   | CHRISTINE S. WOODARD                      |
| <b>SIGNATURE:</b>   | /christine s. woodard/                    |
| <b>DATE SIGNED:</b>   | 04/10/2020                                |
| <b>Total Attachments: 4</b>   |   |
| source=11569.0293-pro Assignment_5-31-16#page1.tif  |   |
| source=11569.0293-pro Assignment_5-31-16#page2.tif  |   |

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**ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention claimed and/or described in an application for United States Letters Patent entitled:

**DETECTING AND MITIGATING HIGHLY VULNERABLE/VALUABLE DOMAINS USING PASSIVE DNS  
MEASUREMENTS**

filed March 25, 2016, as United States Application No. 62/313,557, and

WHEREAS, Vensign, Inc.  
a corporation of Delaware

whose post office address is 12061 Bluemont Way, Reston, VA 20190

(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this patent and this application, and all divisions and continuations thereof, and any provisional application whose benefit is claimed therefrom, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further payment or consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers, such as postage and notary fees, shall be borne by the Assignee, its successors and assigns

AND, I HEREBY authorize and request the Assignee's agents, MH2 Technology Law Group LLP, whose address is 1951 Kidwell Drive, Suite 550, Tysons Corner, VA 22182, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

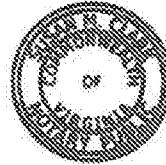
County of Fairfax )  
 )  
 ) ss. Name: Eric M. Osterwell  
 ) Mailing Address: c/o Verisign Legal Dpt.  
 ) 12061 Bluemont Way, Reston, VA 20190  
 )  
 ) Residence: Fairfax, VA  
 State of Virginia ) By: [Signature]  
 Date: 4/14/2016

Subscribed and sworn to before me this 11<sup>th</sup> day of April, 2016  
[Signature], Notary Public



County of Fairfax )  
 )  
 ) ss. Name: Daniel R. McPherson  
 ) Mailing Address: c/o Verisign Legal Dpt.  
 ) 12061 Bluemont Way, Reston, VA 20190  
 )  
 ) Residence: Leesburg, VA  
 State of Virginia ) By: [Signature]  
 Date: 4/8/2016

Subscribed and sworn to before me this 5<sup>th</sup> day of April, 2016  
[Signature], Notary Public



Susan M. Clark  
 NOTARY PUBLIC  
 Commonwealth of Virginia  
 Reg. #4575282  
 My Commission Expires  
 September 30, 2019

County of Fairfax )  
 )  
 ) ss. Name: Matthew A. Thomas  
 ) Mailing Address: c/o Verisign Legal Dpt.  
 ) 12061 Bluemont Way, Reston, VA 20190  
 )  
 ) Residence: Atlanta, GA  
 State of Virginia ) By: [Signature]  
 Date: 4/14/16

Subscribed and sworn to before me this 11<sup>th</sup> day of April, 2016  
[Signature], Notary Public



**ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS Eric M. Osterweil, Daniel R. McPherson, Matthew A. Thomas, and Qi Alfred Chen, (hereinafter referred to as Assignor or Assignors), have made an invention claimed and/or described in a provisional application for United States Letters Patent entitled:

**DETECTING AND MITIGATING HIGHLY VULNERABLE/VALUABLE DOMAINS USING PASSIVE DNS MEASUREMENTS**

filed March 25, 2016, as United States Application No. 62/313,557; and

WHEREAS, Verisign, Inc.  
a corporation of Delaware

whose post office address is 12061 Bluemont Way, Reston, VA 20190

(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for Letters Patent on this invention and the Letters Patent to be issued upon such applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this provisional application, and all non-provisional applications, divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, as well as all rights to claim priority on the basis of this provisional application in any foreign country, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof;

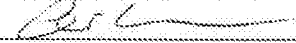
AND, I HEREBY authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree for myself, my successors and my assigns, that I will, without further payment or consideration, communicate to Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers, such as postage and notary fees, shall be borne by the Assignee, its successors and assigns;

AND, I HEREBY authorize and request the Assignee's agents, MH2 Technology Law Group LLP, whose address is 1951 Kidwell Drive, Suite 550, Tysons Corner, VA 22182, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known;

IN TESTIMONY WHEREOF, I have hereunto set my hand.

|                              |   |
|------------------------------|---|
| County of <u>Washtenaw</u> ) | Name: <u>Qi Alfred Chan</u>   |
| )                            | ss. Mailing Address: <u>c/o Verisign Legal Dpt.</u>   |
| )                            | <u>12061 Bluemont Way, Reston, VA 20190</u>   |
| )                            | Residence: <u>Ann Arbor, MI</u>   |
| State of <u>Michigan</u> )   | By: <u></u> |
| )                            | Date: <u>05/29/2016</u>   |

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
\_\_\_\_\_, Notary Public