PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6719343

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE NAME previously recorded on Reel 020915 Frame 0599. Assignor(s) hereby confirms the ASSIGNEE WAS "MANDIANT CORPORATION".

CONVEYING PARTY DATA

Name	Execution Date
MATTHEW FRAZIER	04/28/2008
JASON SHIFFER	04/24/2008
DAVID MERKEL	04/08/2008
KEVIN MANDIA	04/08/2008
MATTHEW PEPE	04/23/2008

RECEIVING PARTY DATA

Name:	MANDIANT CORPORATION
Street Address:	675 NORTH WASHINGTON STREET
Internal Address:	SUITE 210
City:	ALEXANDRIA
State/Country:	VIRGINIA
Postal Code:	22314

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	7937387

CORRESPONDENCE DATA

Fax Number: (714)546-9035

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 714-641-5100 Email: jngo@rutan.com

Correspondent Name: RUTAN & TUCKER, LLP

Address Line 1: 18575 JAMBOREE RD., 9TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92612

ATTORNEY DOCKET NUMBER: 101966.0101P P01-1202

NAME OF SUBMITTER: WILLIAM W. SCHAAL, REG. NO. 39018

SIGNATURE: /William W. Schaal/

DATE SIGNED: 05/19/2021

PATENT 506672528 REEL: 056296 FRAME: 0470

Total Attachments: 18 source=Marked-Assignment-Cover-Sheet-101966-0101P-7937387#page1.tif source=Marked-Assignment-Cover-Sheet-101966-0101P-7937387#page2.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page1.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page2.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page3.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page4.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page5.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page6.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page7.tif source=Original-Assignment executed Inventors-Mandiant-Corp-101966-0101P-P01-1202#page8.tif source=WWS-Assignment-correct-101966-0101P-7937387#page1.tif source=WWS-Assignment-correct-101966-0101P-7937387#page2.tif source=WWS-Assignment-correct-101966-0101P-7937387#page3.tif source=WWS-Assignment-correct-101966-0101P-7937387#page4.tif source=WWS-Assignment-correct-101966-0101P-7937387#page5.tif source=WWS-Assignment-correct-101966-0101P-7937387#page6.tif source=WWS-Assignment-correct-101966-0101P-7937387#page7.tif source=WWS-Assignment-correct-101966-0101P-7937387#page8.tif

PATENT REEL: 056296 FRAME: 0471

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthew Frazier	04/28/2008
Jason Shiffer	04/24/2008
David Merkel	04/08/2008
Kevin Mandia	04/08/2008
Matthew Pepe	04/23/2008

RECEIVING PARTY DATA

Name:	Mandiant Corporation
Street Address:	675 North Washington Street
Internal Address:	Suite 210
City:	Alexandria
State/Country:	VIRGINIA
Postal Code:	22314

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12024827

CORRESPONDENCE DATA

Fax Number: (202)408-6399

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202.408.6400

Email: rsabett@sonnenschein.com

Correspondent Name: SONNENSCHEIN NATH & ROSENTHAL LLP

Address Line 1: P.O. BOX 061080

Address Line 2: WACKER DRIVE STATION, SEARS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606-1080

ATTORNEY DOCKET NUMBER: 30019260-0004

PATENT REEL: 056296 FRAME: 0472

500533817

\$40.00 120248

NAME OF SUBMITTER:	Randy V. Sabett
Total Attachments: 6 source=0004TwoDeclarations#page1.tif source=0004TwoDeclarations#page2.tif source=0004TwoDeclarations#page3.tif source=0004TwoDeclarations#page4.tif source=0004TwoDeclarations#page5.tif source=0004TwoDeclarations#page6.tif	

PATENT REEL: 056296 FRAME: 0473

ASSIGNMENT

WHEREAS, Matthew Frazier, residing at 2500 Blarendon Blvd #712, Arlington VA 22201; Jason Shiffer, residing at 1214 Ware St., Vienna, VA 22180; David Merkel, residing at 911 Elden Street, Herndon VA 20170; Kevin Mandia, residing at 39 Millstone Lane, Pottstown, PA 19465; and Matthew Pepe, residing at 2500 Clarendon Blvd #712, Arlington VA 22201; all citizens of the United States, have invented a certain new and useful invention ("INVENTION") entitled "SYSTEM AND METHOD FOR DATA PRESERVATION AND RETRIEVAL" and have executed an application for a United States Patent, entitled the same, having a filing date of February 1, 2008, and identified as United States Patent Application Serial No. 12/024,827 ("APPLICATION"); and

WHEREAS, Mandiant, a Delaware corporation with a principal place of business at 675 North Washington Street, Suite 210, Alexandria VA 22314, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in, to and under said INVENTION and the United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said INVENTION and all Letters Patent of the United States to be obtained therefor on said APPLICATION or any non-provisional, continuation, continuation-in-part, divisional, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNORS also assign all of their right, title and interest in and to said INVENTION in all foreign countries, and all applications for Letters Patent which may evolve therefrom, including the right to claim International Convention priority.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, said INVENTION and said Letters Patent as may be known and accessible to ASSIGNORS, and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, defend and enforce said applications, said INVENTION and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

(signatures on the following pages)

Page 1 of 4

	, ASSIGNOR has executed this Invention Assignment es Patent Application Serial No. 12/024,827).
Matthew Frazier	
STATE OF NEW YORK) COUNTY OF New YORK)	
On this 38 day of Affil, 20 adequate proof of identification, who hand and official seal. NOTARY My Commission expires:	O08, before me personally appeared Matthew Frazier, with executed the above Invention Assignment. WITNESS my GLORIA FRANCAVILLA NOTARY PUBLIC, STATE OF NEW YORK NO. 01FR5033646 QUALIFIED IN SUFFOLK COUNTY CQ短路的 ON EXPIRES 2/36/10
IN WITNESS WHEREOF, (including for United States Patent Ap	ASSIGNOR has executed this Invention Assignment plication Serial No. 12/024,827).
STATE OF) SS. COUNTY OF)	
On this day of, 2 adequate proof of identification, who hand and official seal.	2008, before me personally appeared Jason Shiffer, with executed the above Invention Assignment. WITNESS my
NOTARY	
My Commission expires:	ro . "
	[Seal]

U.S. Patent Application Serial No. 12/024,827

(including for United States Patent Application Serial No. 12/024,827).
David Merkel
STATE OF) SS.
COUNTY OF)
On this day of, 2008, before me personally appeared David Merkel, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
NOTARY
My Commission expires: [Seal]
IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827).
Kevin Mandia
STATE OF) SS.
STATE OF) SS. COUNTY OF)
STATE OF) SS.
STATE OF) SS. COUNTY OF) On this day of, 2008, before me personally appeared Kevin Mandia, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
STATE OF) SS. COUNTY OF On this day of, 2008, before me personally appeared Kevin Mandia, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.

Matthew Pepe	
STATE OF))
COUNTY OF) SS.)
	, 2008 before me personally appeared Matthew Pepe, with on, who executed the above Invention Assignment. WITNESS my
NOTARY My Commission expires:	[Seal]

ASSIGNMENT

WHEREAS, Matthew Frazier, residing at 2500 Blarendon Blvd #712, Arlington VA 22201; Jason Shiffer, residing at 1214 Ware St., Vienna, VA 22180; David Merkel, residing at 911 Elden Street, Herndon VA 20170; Kevin Mandia, residing at 39 Millstone Lane, Pottstown, PA 19465; and Matthew Pepe, residing at 2500 Clarendon Blvd #712, Arlington VA 22201; all citizens of the United States, have invented a certain new and useful invention ("INVENTION") entitled "SYSTEM AND METHOD FOR DATA PRESERVATION AND RETRIEVAL" and have executed an application for a United States Patent, entitled the same, having a filing date of February 1, 2008, and identified as United States Patent Application Serial No. 12/024,827 ("APPLICATION"); and

Corporation

WHEREAS, Mandiant, a Delaware corporation with a principal place of business at 675 North Washington Street, Suite 210, Alexandria VA 22314, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in, to and under said INVENTION and the United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said INVENTION and all Letters Patent of the United States to be obtained therefor on said APPLICATION or any non-provisional, continuation, continuation-in-part, divisional, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNORS also assign all of their right, title and interest in and to said INVENTION in all foreign countries, and all applications for Letters Patent which may evolve therefrom, including the right to claim International Convention priority.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, said INVENTION and said Letters Patent as may be known and accessible to ASSIGNORS, and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, defend and enforce said applications, said INVENTION and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

(signatures on the following pages)

Matthew Frazier
STATE OF)
) SS. COUNTY OF)
On this day of, 2008, before me personally appeared Matthew Frazier, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
NOTARY
My Commission expires: [Seal]
IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827). STATE OF VACCOUNTY OF ALVANDED SS.
On this 14 day of MVI, 2008, before me personally appeared Jason Shiffer, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal. CHRISTINA FONTANA Notary Public Commonwealth of Virginia Reg. #7133648 My Commission Exps. Jan. 31, 2011 My Commission expires:
[Seal]

•				
IN WITNESS WHEREOF, AS (including for United States Patent Applic			nvention Assignme	nt
Sand Mull		· · · · · · · · · · · · · · · · · · ·		
David Merkel				
STATE OF VA COUNTY OF Alexandria) SS.				
On this 8 day of April, 200 adequate proof of identification, who exe hand and official seal. NOTARY My Commission expires:	98, before me ecuted the abo	CHRISTI Not Common	ed David Merkel, winnent. WITNESS nonent. WITNESS nonenterment. WITNESS nonenterment. NA FONTANA description of the second seco	th ny
IN WITNESS WHEREOF, AS (including for United States Patent Application) Kevin Mandia STATE OF COUNTY OF Alexandria On this day of April, 200 adequate proof of identification, who exchand and official seal. NOTARY My Commission expires:	cation Serial N	personally appeared by Invention Assignment CHRISTIN Notan Germonwe Reg. #	ed Kevin Mandia, wi	th 1y
	[Seal]		Jan. 31,2011	
				<u>. </u>

STATE OF VA)

COUNTY OF Alexandria)

On this 23 day of 400, 2008 before me personally appeared Matthew Pepe, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.

NOTARY

My Commission expires:

[Seal]

CHRISTINA FONTANA
Notary Public
Commonwealth of Virginia
Reg. #7133648
My Commission Exps. Jan. 31, 2011

ASSIGNMENT

WHEREAS, Matthew Frazier, residing at 2500 Blarendon Blvd #712, Arlington VA 22201; Jason Shiffer, residing at 1214 Ware St., Vienna, VA 22180; David Merkel, residing at 911 Elden Street, Herndon VA 20170; Kevin Mandia, residing at 39 Millstone Lane, Pottstown, PA 19465; and Matthew Pepe, residing at 2500 Clarendon Blvd #712, Arlington VA 22201; all citizens of the United States, have invented a certain new and useful invention ("INVENTION") entitled "SYSTEM AND METHOD FOR DATA PRESERVATION AND RETRIEVAL" and have executed an application for a United States Patent, entitled the same, having a filing date of February 1, 2008, and identified as United States Patent Application Serial No. 12/024,827 ("APPLICATION"); and

Corporation 511913434

WHEREAS, Mandiant, a Delaware corporation with a principal place of business at 675 North Washington Street, Suite 210, Alexandria VA 22314, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in, to and under said INVENTION and the United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said INVENTION and all Letters Patent of the United States to be obtained therefor on said APPLICATION or any non-provisional, continuation, continuation-in-part, divisional, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNORS also assign all of their right, title and interest in and to said INVENTION in all foreign countries, and all applications for Letters Patent which may evolve therefrom, including the right to claim International Convention priority.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, said INVENTION and said Letters Patent as may be known and accessible to ASSIGNORS, and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, defend and enforce said applications, said INVENTION and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

(signatures on the following pages)

U.S. Patent Application Serial No. 12/024,827

IN WITNESS WHERE (including for United S	OF, ASSIGNOR has executed this Invention Assignment States Patent Application Serial No. 12/024,827).
Matthew Frazier	
STATE OF NEW YORK) SS	•
On this 28 day of AMIL adequate proof of identification, whand and official seal. NOTARY My Commission expires: 91361.0	, 2008, before me personally appeared Matthew Frazier, with ho executed the above Invention Assignment. WITNESS my GLORIA FRANCAVILLA NOTARY PUBLIC, STATE OF NEW YORK NO. 01FR5033646 QUALIFIED IN SUFFOLK COUNTY COMMISSION EXPIRES 9/36/10
	F, ASSIGNOR has executed this Invention Assignmen Application Serial No. 12/024,827).
STATE OF)	
COUNTY OF) ss	
	_, 2008, before me personally appeared Jason Shiffer, with ho executed the above Invention Assignment. WITNESS my

[Seal]

NOTARY.

My Commission expires:

IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827).
David Merkel
STATE OF) SS.
COUNTY OF)
On this day of, 2008, before me personally appeared David Merkel, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
NOTARY My Commission expires: [Seal]
IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827).
Kevin Mandia
STATE OF) SS.
COUNTY OF)
On this day of, 2008, before me personally appeared Kevin Mandia, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
NOTARY
My Commission expires: [Seal]

Matthew Pepe		***************************************		
STATE OF)			w.
COUNTY OF) ss.			
On this adequate proo hand and offici	f of identification, who	2008 before me posterior about 2008 contraction 2008 cont	personally appeared A ove Invention Assignm	flatthew Pepe, with ent. WITNESS my
NOTARY My Commissio	o avnime:			
wy Commissio	n avhnas	[Seal]		

ASSIGNMENT

WHEREAS, Matthew Frazier, residing at 2500 Blarendon Blvd #712, Arlington VA 22201; Jason Shiffer, residing at 1214 Ware St., Vienna, VA 22180; David Merkel, residing at 911 Elden Street, Herndon VA 20170; Kevin Mandia, residing at 39 Millstone Lane; Pottstown, PA 19465; and Matthew Pepe, residing at 2500 Clarendon Blvd #712, Arlington VA 22201; all citizens of the United States, have invented a certain new and useful invention ("INVENTION") entitled "SYSTEM AND METHOD FOR DATA PRESERVATION AND RETRIEVAL" and have executed an application for a United States Patent, entitled the same, having a filing date of February 1, 2008, and identified as United States Patent Application Serial No. 12/024,827 ("APPLICATION"); and

Corporation 511/13/24

WHEREAS, Mandiant, a Delaware corporation with a principal place of business at 675 North Washington Street, Suite 210, Alexandria VA 22314, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in, to and under said INVENTION and the United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said INVENTION and all Letters Patent of the United States to be obtained therefor on said APPLICATION or any non-provisional, continuation, continuation-in-part, divisional, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNORS also assign all of their right, title and interest in and to said INVENTION in all foreign countries, and all applications for Letters Patent which may evolve therefrom, including the right to claim International Convention priority.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, said INVENTION and said Letters Patent as may be known and accessible to ASSIGNORS, and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, defend and enforce said applications, said INVENTION and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

(signatures on the following pages)

U.S. Patent Application Serial No. 12/024,827

Matthew Frazier
STATE OF) SS.
COUNTY OF) SS.
On this day of, 2008, before me personally appeared Matthew Frazier, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.
NOTARY
My Commission expires: [Seal]
IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827).
STATE OF VA)
COUNTY OF AWAMEIN SS.
On this 4 day of 401, 2008, before me personally appeared Jason Shiffer, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal. CHRISTINA FONTANA Notary Public Commonwealth of Virginia Reg. #7133648 My Commission Exps. Jen. 31, 2011
My Commission expires: [Seal]

IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827).
David Merkel
STATE OF VA COUNTY OF Alexandria SS.
On this S day of APCI 2008, before me personally appeared David Merkel, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal. OHRISTINA FONTANA Notary Public Commonwealth of Virginia Reg. #7133648 My Commission Exps. Ján. 31, 2011 [Seal]
IN WITNESS WHEREOF, ASSIGNOR has executed this Invention Assignment (including for United States Patent Application Serial No. 12/024,827). Line Mandia STATE OF VA COUNTY OF Alexandria SS.
On this 8 day of APRI, 2008, before me personally appeared Kevin Mandia, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal. OHRISTINA FONT NA Notary Public Commonwealth of the sinila Reg. #71336-8 http://doi.org/10.2011 My Commission expires: [Seal]

Matthew Pepe

STATE OF VA

COUNTY OF Alexandria SS

On this 23 day of April. 2008 before me personally appeared Matthew Pepe, with adequate proof of identification, who executed the above Invention Assignment. WITNESS my hand and official seal.

NOTARY

My Commission expires:

CHRISTINA FONTANA
Notary Public
Commonwealth of Virginia
Reg. #7133648
My Commission Exps. Jan. 31, 2011

[Seal]