506954024 11/01/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7000862

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
SANJAY HARAKHCHAI	ND KRIPAL	ANI	02/08/2018	
HEEMESH R. DWARA	MPUDI		02/14/2018	
BRAHMAIAH VALLABH	ANENI		02/14/2018	
RECEIVING PARTY DA	ATA			
Name:	COMMVA	AULT SYSTEMS, INC.		
Street Address:	1 COMM	1 COMMVAULT WAY		
City:		FALLS		
State/Country:	NEW JEF	RSEY		
Postal Code:	07724			
PROPERTY NUMBERS		Number		
	47	7511239		
Application Number:	11/	/ 3 1 2 3 9		
Application Number:		511239		
		511239		
CORRESPONDENCE [ATA (9)	49)760-9502		
CORRESPONDENCE E Fax Number: Correspondence will b	DATA (9 pe sent to th	49)760-9502 he e-mail address first; if that is unsuc		
CORRESPONDENCE E Fax Number: Correspondence will b using a fax number, if	OATA (9- pe sent to th provided; h	49)760-9502		
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone:	OATA (9 pe sent to th provided; 1 94	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v		
Fax Number: <i>Correspondence will b using a fax number, if</i> Phone: Email: Correspondent Name:	DATA (9. pe sent to th provided; 1 94 efi	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	DATA (9- provided; 1 94 efi K1 20	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i>	DATA (9- provided; 1 94 efi K1 20	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	DATA (9 provided; 1 94 efi K1 20 IR	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	DATA (9 provided; 1 94 efi K1 20 IR	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR 2VINE, CALIFORNIA 92614	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N IAME OF SUBMITTER:	DATA (9 provided; 1 94 efi K1 20 IR	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR 2VINE, CALIFORNIA 92614 COMMV.337C2	ia US Mail.	
CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE:	DATA (9 provided; 1 94 efi K1 20 IR	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF NOBBE MARTENS OLSON & BEAR, LLF COMMV.337C2 SEAN AMBROSIUS	ia US Mail.	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	DATA (9 provided; 1 94 efi K1 20 IR	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR EVINE, CALIFORNIA 92614 COMMV.337C2 SEAN AMBROSIUS /Sean Ambrosius/	ia US Mail.	
CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NO NAME OF SUBMITTER: DATE SIGNED:	DATA (9 provided; 1 94 efi Kt 20 IR UMBER:	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR 2VINE, CALIFORNIA 92614 COMMV.337C2 SEAN AMBROSIUS /Sean Ambrosius/ 11/01/2021	ia US Mail.	
CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NO NAME OF SUBMITTER: DATE SIGNED: Total Attachments: 9	DATA (9. provided; i 94 efi Kt 20 IR UMBER:	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR EVINE, CALIFORNIA 92614 COMMV.337C2 SEAN AMBROSIUS /Sean Ambrosius/ 11/01/2021 #page1.tif	ia US Mail.	
CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NO NAME OF SUBMITTER: DATE SIGNED: Cotal Attachments: 9 Source=COMMV337C2_/	DATA (9. provided; i 94 efi K1 20 IR UMBER: Assignment Assignment	49)760-9502 he e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 497600404 iling@knobbe.com NOBBE MARTENS OLSON & BEAR, LLF 040 MAIN STREET, 14TH FLOOR VINE, CALIFORNIA 92614 COMMV.337C2 SEAN AMBROSIUS /Sean Ambrosius/ 11/01/2021 #page1.tif #page2.tif #page3.tif	ia US Mail.	

source=COMMV337C2_Assignment#page5.tif
source=COMMV337C2_Assignment#page6.tif
source=COMMV337C2_Assignment#page7.tif
source=COMMV337C2_Assignment#page8.tif
source=COMMV337C2_Assignment#page9.tif

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Sanjay Harakhchand KRIPALANI, a citizen of USA, and having a mailing address of 185 Nathan Drive, Morganville, NJ 07751, USA;
- Bheemesh R. DWARAMPUDI, a citizen of USA, and having a mailing address of 109 Brookfield Drive, Jackson, NJ 08527, USA;
- Brahmalah VALLABHANENI, a citizen of INDIA, and having a mailing address of 28 Warbler Rd., Mariboro, NJ 07746, USA.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an application for Patent of the United States, which is currently entitled USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES and naming Assignor as the sole inventor(s), and filed on <u>March 1, 2018</u> as U.S. Application No. <u>15/909774</u> (the "Application"). The Assignor authorizes the Assignee, identified below, or its representatives to insert the application number and filing date of the Application after they are known.

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724, USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

(a) the Invention(s) and Application;

(b) all provisional patent applications relating to the Invention(s) and Application, including U.S. Application No. 62/466,836 filed on March 03, 2017 with the title of "USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES";

(c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;

(d) all patents that may be granted on any of the foregoing in clauses (a) through (c);

(e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);

(f) all reissues, reexaminations, inter partes reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);

(g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and

Page 1 of 3

(h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

(b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and

(c) assisting (including by giving of testimony) in any litigation, interference, derivation, inter partes review, post-grant review, covered business method patent review, supplemental examination, ex parte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assigner will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assigner's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equilable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor-

Page 2 of 3

who affirmed execution of same.

No amendment to this Assignment shall be valid unless signed in writing by the party to be bound. No course of conduct or dealing by Assignee will act as an amendment, modification, or waiver of any provision of this Assignment.

This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: July 22, 2016.

Assignor's Signature: Saniav Harakhchand KRIPALANI Attorney's Signature: Date: Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. #1:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same. Assignor's Signature: Bheemesh R. DWARAMPUDI Attorney's Signature: ______ Date: _____ Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same. Assignor's Signature: Brahmalah VALLABHANENI Attomey's Signature: _____ Date: _____ Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Sanjay Harakhchand KRIPALANI, a citizen of USA, and having a mailing address of 185 Nathan Drive, Morganville, NJ 07751, USA;
- Bheemesh R. DWARAMPUDI, a citizen of USA, and having a mailing address of 109 Brookfield Drive, Jackson, NJ 08527, USA;
- Brahmalah VALLABHANENI, a citizen of INDIA, and having a mailing address of 28 Warbler Rd., Mariboro, NJ 07746, USA.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an application for Patent of the United States, which is currently entitled USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES and naming Assignor as the sole inventor(s), and filed on <u>March 1, 2018</u> as U.S. Application No. <u>15/909774</u> (the "Application"). The Assignor authorizes the Assignee, identified below, or its representatives to insert the application number and filing date of the Application after they are known.

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724, USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

(a) the Invention(s) and Application;

(b) all provisional patent applications relating to the Invention(s) and Application, including U.S. Application No. 62/466,836 filed on March 03, 2017 with the title of "USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES";

(c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;

(d) all patents that may be granted on any of the foregoing in clauses (a) through (c);

(e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);

(f) all reissues, reexaminations, inter partes reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);

(g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and

Page 1 of 3

(h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assigner represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and Is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

(b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and

(c) assisting (including by giving of testimony) in any litigation, interference, derivation, inter partes review, post-grant review, covered business method patent review, supplemental examination, ex parte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assigned will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assigner's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor-

Page 2 of 3

No amendment to this Assignment shall be valid unless signed in writing by the party to be bound. No course of conduct or dealing by Assignee will act as an amendment, modification, or waiver of any provision of this Assignment.

This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: July 22, 2016.

Assignor's Signature:

Sanjay Harakhchand KRIPALANI

Attorney's Signature: _____ Date: _____

Date: Feb. 14, 2018

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Assignor's Signature: D.R.N. Dullingua Dea

Bheemesh R. DWARAMPUDI

Attorney's Signature: Autorine A. Mille

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Assignor's Signature:

Brahmalah VALLABHANENI

Attorney's Signature: _____ Date:

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Sanjay Harakhchand KRIPALANI, a citizen of USA, and having a mailing address of 185 Nathan Drive, Morganville, NJ 07751, USA;
- Bheemesh R. DWARAMPUDI, a citizen of USA, and having a mailing address of 109 Brookfield Drive, Jackson, NJ 08527, USA;
- Brahmalah VALLABHANENI, a citizen of INDIA, and having a mailing address of 28 Warbler Rd., Mariboro, NJ 07746, USA.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an application for Patent of the United States, which is currently entitled USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES and naming Assignor as the sole inventor(s), and filed on <u>March 1, 2018</u> as U.S. Application No. <u>15/909774</u> (the "Application"). The Assignor authorizes the Assignee, identified below, or its representatives to insert the application number and filing date of the Application after they are known.

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724, USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

(a) the Invention(s) and Application;

(b) all provisional patent applications relating to the Invention(s) and Application, including U.S. Application No. 62/466,836 filed on March 03, 2017 with the title of "USING STORAGE MANAGERS IN RESPECTIVE DATA STORAGE MANAGEMENT SYSTEMS FOR LICENSE DISTRIBUTION, COMPLIANCE, AND UPDATES";

(c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;

(d) all patents that may be granted on any of the foregoing in clauses (a) through (c);

(e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);

(f) all reissues, reexaminations, inter partes reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);

(g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and

Page 1 of 3

(h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assigner;

(b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and

(c) assisting (including by giving of testimony) in any litigation, interference, derivation, *inter* partes review, post-grant review, covered business method patent review, supplemental examination, ex parte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assigned Will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assignor's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor.

Page 2 of 3

No amendment to this Assignment shall be valid unless signed in writing by the party to be bound. No course of conduct or dealing by Assignee will act as an amendment, modification, or waiver of any provision of this Assignment.

This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: July 22, 2016.

Assignor's Signature:

Saniav Harakhchand KRIPALANI

Attorney's Signature: _____ Date: _____

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Assignor's Signature:

Bheemesh R. DWARAMPUDI

Attorney's Signature: _____Date: _____

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Assignor's Signature:	C. Bratinoa it
	Brahmalah VALLABHANENI
Attorney's Signature: Attorney's Signature:	alti Date: Felo 14, 2018
	mey-at-Law of the State of New Jersey, authorized

pursuant to N.J.S.A-41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Page 3 of 3

PATENT REEL: 057986 FRAME: 0686

RECORDED: 11/01/2021