506142052 07/07/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6188783

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DA	ATA				
			Name		Execution Date
SANTHOSH SANAKKAYALA					09/22/2017
SARATH CHERIYAN JOSEPH					09/22/2017
ANANDA VENKATESHA					09/22/2017
RAJESH POLIMERA					09/22/2017
RAHUL S. PAWAR					09/22/2017
HENRY WALLACE DORNEMANN					09/22/2017
					<u>.</u>
RECEIVING PARTY DA					
Name:	COMMVAULT SYSTEMS, INC.				
Street Address:	1 COMMVAULT WAY				
City:	TINTON FALLS				
State/Country:	NEW JERSEY				
Postal Code:	07724				
PROPERTY NUMBERS	Total: 1				
Property Type		Number			
Application Number: 16		1692	16920613		
Fax Number:	s cont t	. ,	1760-9502 e-mail address first; if that is u	neucce	eeful it will be cent
			hat is unsuccessful, it will be s		
Phone: 9497		9497	97600404		
Email: efiling		ng@knobbe.com			
Correspondent Name: KNO		DBBE, MARTENS, OLSON & BEAR, LLP			
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Address Line 4:		IRVIN	NE, CALIFORNIA 92614		
ATTORNEY DOCKET NUMBER:			COMMV.305A1C1		
NAME OF SUBMITTER:			VIKAS BHARGAVA		
SIGNATURE:			/Vikas Bhargava/		

07/07/2020

DATE SIGNED:

Total Attachments: 20

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ASSIGNMENT BY INVENTORS

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

- Santhosh SANAKKAYALA, a citizen of India, and having a mailing address of 31 Willow Drive, Apt. 10, Ocean Township, NJ 07712, USA;
- Sarath Cheriyan JOSEPH, a citizen of India, and having a mailing address of 33 B Lakeview Terrace Eatontown, NJ 07724, USA;
- Ananda VENKATESHA, a citizen of India, and having a mailing address of 34 Whittier Drive, Manalapan, NJ 07726, USA;
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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 applications for Patent of the United States, which are currently entitled:

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which are referred to collectively herein as 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"):

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This Assignment is effective: July 26, 2017.

alteration Assignor's Signature: Santhosh SANAKKAYALA ept. 22,2017 Date:

Attorney's Signature:

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:	hout
Attorney's Signature	Sarath Cheriyan JOSEPH 1. Matrice Sept. 22, 2017
Attorney's Name: IOSEPHINE & PALTIN an Atto	mey-at-Law of the State of New Jersey authorized

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Assignor's Signature:

Ananda VENKATESHA

_____ Date: _____

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Assignor's Signature:

Rajesh POLIMERA

Attorney's Signature: _____ Date: _____

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Rahul S. PAWAR

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Henry Wallace DORNEMANN

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Santhosh SANAKKAYALA

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PATENT REEL: 053142 FRAME: 0483

Date:

Sarath Cheriyan JOSEPH

Date: Attorney's Signature:

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> Assignor's Signature: Ananda VENKATESHA P. 22, 2017

Attorney's Signature:/

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Assignee Matter No. 100.518.US1-US2-US3.160 Attorney Docket No. COMMV.305A1, COMMV.305A2, COMMV.305A3

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.

Assignor 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-

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 26, 2017.

Assignor's Signature:

Santhosh SANAKKAYALA

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.

Sarath Cheriyan JOSEPH

Date: Attorney's Signature:

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:

Ananda VENKATESHA

Date:

Rajesh POLIMERA

Attorney's Signature:

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:

Kan

Attorney's Signature:

épt, 22,2017 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.

Assignee Matter No. 100.518.US1-US2-US3.160 Attorney Docket No. COMMV.305A1, COMMV.305A2, COMMV.305A3

Assignor's Signature:	
Durching	Rahul S. PAWAR
Attorney's Signature: (ALAMARCAS ,	7 Willie Date:
Attorney's Name: JOSEPHINE & PALTIN, an Attorn	ey-at-Law of the State of New Jersey, authorized
pursuant to N.J.S.A. 41:2-1, having identified the pers	
who affirmed execution of same.	

Assignor's Signature:

Henry Wallace DORNEMANN

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"):

- Santhosh SANAKKAYALA, a citizen of India, and having a mailing address of 31 Willow Drive, Apt. 10, Ocean Township, NJ 07712, USA;
- Sarath Cheriyan JOSEPH, a citizen of India, and having a mailing address of 33 B Lakeview Terrace Eatontown, NJ 07724, USA;
- Ananda VENKATESHA, a citizen of India, and having a mailing address of 34 Whittier Drive, Manalapan, NJ 07726, USA;
- Rajesh POLIMERA, a citizen of India, and having a mailing address of 81 Wood Duck Court, Freehold, NJ 07728, USA.
- Rahul S. PAWAR, a citizen of USA, and having a mailing address of 19 Barn Swallow Blvd., Marlboro, NJ 07746, USA;
- Henry Wallace DORNEMANN, a citizen of USA, and having a mailing address of 19 Russell Terrace, Eatontown, NJ 07724, 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 applications for Patent of the United States, which are currently entitled:

- HEARTBEAT MONITORING OF VIRTUAL MACHINES FOR INITIATING FAILOVER OPERATIONS IN A DATA STORAGE MANAGEMENT SYSTEM, INCLUDING OPERATIONS BY A MASTER MONITOR NODE (Applicant Docket No. 100.518.US1.160; Attorney Docket No. COMMV.305A1) and naming Assignor as the sole inventor(s), and filed on <u>26-Sep-2017</u> as U.S. Application No. <u>15/716391</u>;
- HEARTBEAT MONITORING OF VIRTUAL MACHINES FOR INITIATING FAILOVER OPERATIONS IN A DATA STORAGE MANAGEMENT SYSTEM, USING PING MONITORING OF TARGET VIRTUAL MACHINES (Applicant Docket No. 100.518.US2.160; Attorney Docket No. COMMV.305A2) and naming Assignor as the sole inventor(s), and filed on <u>26-Sep-2017</u> as U.S. Application No. <u>15/716386</u>;
- 3. HEARTBEAT MONITORING OF VIRTUAL MACHINES FOR INITIATING FAILOVER OPERATIONS IN A DATA STORAGE MANAGEMENT SYSTEM, INCLUDING VIRTUAL MACHINE DISTRIBUTION LOGIC (Applicant Docket No. 100.518.US3.160; Attorney Docket No. COMMV.305A3), and naming Assignor as the sole inventor(s), and filed on 26-Sep-2017 as U.S. Application No. <u>15/716340</u>,

which are referred to collectively herein as 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"):

Page 1 of 5

(a) the Invention(s) and Application;

- (b) all provisional patent applications relating to the Invention(s) and Application, including:
 - U.S. Provisional Patent Application Serial No. 62/402,269, filed on Sept. 30, 2016 and entitled "Heartbeat Monitoring of Virtual Machines for Initiating Failover Operations in a Data Storage Management System" and
 - U.S. Provisional Patent Application Serial No. 62/604,988, filed on July 28, 2017, and entitled "Heartbeat Monitoring of Virtual Machines for Initiating Failover and/or Failback Operations in a Data Storage Management System";

(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

(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

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Assignee Matter No. 100.518.US1-US2-US3.160 Attorney Docket No. COMMV.305A1, COMMV.305A2, COMMV.305A3

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Santhosh SANAKKAYALA

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PATENT REEL: 053142 FRAME: 0493

Date:

Sarath Cheriyan JOSEPH

Date:

Attorney's Signature:

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Assignor's Signature:

Ananda VENKATESHA

Date: _

Attorney's Signature: _

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Rajesh POLIMERA

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Rahul S. PAWAR

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Assignor's Signature:

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Attorney's Signature: 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.

Page 5 of 5

PATENT REEL: 053142 FRAME: 0495

RECORDED: 07/07/2020