504509178 08/17/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4555883

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| PRAKASH VARADHARAJAN | 03/21/2014 |
| ANAND VIBHOR | 03/24/2014 |
| AMEY VIJAYKUMAR KARANDIKAR | 03/21/2014 |
| MANOJ KUMAR VIJAYAN | 03/21/2014 |
| DEEPAK RAGHUNATH ATTARDE | 03/21/2014 |

RECEIVING PARTY DATA

| 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: | 15680035 |

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 9497600404

efiling@knobbe.com Email:

Correspondent Name: KNOBBE, MARTENS, OLSON, & BEAR, LLP

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14TH FLOOR Address Line 2:

Address Line 4: IRVINE, CALIFORNIA 92614

| ATTORNEY DOCKET NUMBER: COMMV.203C1 | |
|-------------------------------------|--------------------|
| NAME OF SUBMITTER: | DAMIEN J. HOWARD |
| SIGNATURE: | /Damien J. Howard/ |
| DATE SIGNED: | 08/17/2017 |
| | · |

Total Attachments: 15

PATENT REEL: 043325 FRAME: 0574

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Docket Number: COMMV.203A

Page 1 of 3

ASSIGNMENT

U.S.A.

WHEREAS, Prakash Varadharajan, an ladiem-citizen, residing at Manalapan, New Jersey, Anand Vibhor, an Indian citizen, residing at Eatontown, New Jersey, Amey Vijaykumar Karandikar, an Indian citizen, residing at Long Branch, New Jersey, Manoj Kumar Vijayan, a United States citizen, residing at Marlboro, New Jersey, and Deepak Raghunath Attarde, an Indian citizen, residing at Marlboro, New Jersey, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to SHARING OF SECONDARY STORAGE DATA (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application"):

AND WHEREAS, CommVault Systems, Inc., a Delaware Corporation, with its principal place of business at 2 Crescent Place, P.O. Box 900, Oceanport, NJ 07757 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. 61/751,680, filed January 11, 2013, and 61/752,148, filed January 14, 2013, respectively), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

| Filing Date: Janua | | Docket Number: COMMV:203A Page 2 of 3 |
|---------------------------------|---|--|
| Legal Name of inv Signature: | Attorney's Name: JOSEPI of New Jersey, authorized | Date: Date: 3/2//20// HINE A. PALTIN, an Attorney-at-Law of the State pursuant to N.J.S.A. 41:2-1, having identified the the foregoing document and who affirmed |
| Legal Name of inv | ventor: Anand Vibhor | \$ |
| Signature: | Photograph | Date: |
| - | Attorney's Signature: | Date: |
| | of New Jersey, authorized | IINE A. PALTIN, an Attorney-at-Law of the State oursuant to N.J.S.A. 41:2-1, having identified the the foregoing document and who affirmed |
| _egal Name of inv | entor: Amey Vijaykumar k | arandikar |
| Signature: | | Date: |
| | Attorney's Signature: | Date: |
| | of New Jersey, authorized | INE A. PALTIN, an Attorney-at-Law of the State oursuant to N.J.S.A. 41:2-1, having identified the the foregoing document and who affirmed |

| Filing Date: January 10, 2014 | | Page 3 of 3 | |
|-------------------------------|--|--|--|
| | ventor: Manoj Kumar Vijayan | | |
| Signature: | | Date: | |
| | Attorney's Signature: | Date: | |
| t and blame of fav | of New Jersey, authorized pursus person(s) who executed the execution of same. | A. PALTIN, an Attorney-at-Law of the State ant to N.J.S.A. 41:2-1, having identified the foregoing document and who affirmed | |
| refigi isquie (1 111) | ventor: Deepak Raghunath Attar | ue . | |
| Signature: | · | Date: | |
| | Attorney's Signature: | Date: | |
| | of New Jersey, authorized pursua | A. PALTIN, an Attorney-at-Law of the State ant to N.J.S.A. 41:2-1, having identified the foregoing document and who affirmed | |

Docket Number: COMMV.203A

Page 1 of 3

ASSIGNMENT

WHEREAS, Prakash Varadharajan, an Indian citizen, residing at Manalapan, New Jersey, Anand Vibhor, an Indian citizen, residing at Eatontown, New Jersey, Amey Vijaykumar Karandikar, an Indian citizen, residing at Long Branch, New Jersey, Manoj Kumar Vijayan, a United States citizen, residing at Mariboro, New Jersey, and Deepak Raghunath Attarde, an Indian citizen, residing at Mariboro, New Jersey, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to SHARING OF SECONDARY STORAGE DATA (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged. ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. 61/751,680, filed January 11, 2013, and 61/752,148, filed January 14, 2013, respectively), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid. to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

| Application No.: 14/152,871 Filing Date: January 10, 2014 | | | Docket Number: COMMV.203 Page 2 of | |
|---|---|---|---------------------------------------|--|
| Legal Name of in | ventor: Prakash Varadharajan | | CH CHAP SOURCES SERVING | |
| Signature: | - | Date: | - | |
| | Attorney's Signature: | Date: | | |
| | of New Jersey, authorized purs | A. PALTIN, an Attorney-at-Law of the Suant to N.J.S.A. 41:2-1, having identified foregoing document and who affined | State I the | |
| | ventor: Anand Vibhor | | PASSINITE AND AND A PROPERTY AND | |
| Signature: | And V. Hu | Date: 3 24 2014 | <u>م</u> | |
| | Attorney's Signature: | Date: 3 24 2014 Thinefol, Militate: 3/24 | 12014 | |
| | Attorney's Name: JOSEPHIME of New Jersey, authorized purs | A. PALTIN, an Attorney-at-Law of the Suant to N.J.S.A. 41:2-1, having identified foregoing document and who affirm | tate the | |
| Legal Name of inv | entor: Amey Vijaykumar Karar | dikar | en las vide en las suites a pieses d | |
| Signature: | | Date: | | |
| | Attorney's Signature: | Date: | | |
| | of New Jersey, authorized pursu | A. PALTIN, an Attorney-at-Law of the Stant to N.J.S.A. 41:2-1, having identified to foregoing document and who affirm | ate the | |

| Filing Date: January 10, 2014 | | Docket Number: | Page 3 of 3 |
|-------------------------------|---|--|---|
| | ventor: Manoj Kumar Vijayan | | |
| Signature: | | Date: | |
| | Attomey's Signature: | Date: | *************************************** |
| 4 | of New Jersey, authorized pursu person(s) who executed the execution of same. | A. PALTIN, an Attorney-at-Law of tant to N.J.S.A. 41:2-1, having iden foregoing document and who | tified the |
| Legal Name of inv | ventor: Deepak Raghunath Attar | de | |
| Signature: | | Date: | |
| | Attorney's Signature: | Date: | · . |
| | Attorney's Name: JOSEPHINE A of New Jersey, authorized pursua | A. PALTIN, an Attorney-at-Law of the control of the | ne State ified the |

Docket Number: COMMV.203A

Page 1 of 3

ASSIGNMENT

WHEREAS, Prakash Varadharajan, an Indian citizen, residing at Manalapan, New Jersey, Anand Vibhor, an Indian citizen, residing at Eatontown, New Jersey, Amey Vijaykumar Karandikar, an Indian citizen, residing at Long Branch, New Jersey, Manoj Kumar Vijayan, a United States citizen, residing at Marlboro, New Jersey, and Deepak Raghunath Attarde, an Indian citizen, residing at Marlboro, New Jersey, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to SHARING OF SECONDARY STORAGE DATA (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged. ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. 61/751,680, filed January 11, 2013, and 61/752,148, filed January 14, 2013, respectively), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid. to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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| Application No.: 14/152,871 Filing Date: January 10, 2014 | | Docket Number: | COMMV.203 Page 2 of |
|---|---|---|--|
| Legal Name of in | ventor: Prakash Varadharajan | | |
| Signature: | | Date: | THE REAL PROPERTY AND THE PROPERTY AND T |
| • | Attorney's Signature: | | |
| | Attorney's Name: JOSEPHINE A. PALTIN, of New Jersey, authorized pursuant to N.J.s person(s) who executed the foregoing execution of same. | an Attorney-at-Law of S.A. 41:2-1, having ider | the State |
| • | | | |
| Legal Name of inv | rentor: Anand Vibhor | Data | |
| wignorano. | | Date: | |
| | Attorney's Signature: | | |
| · | Attorney's Name: JOSEPHINE A. PALTIN, of New Jersey, authorized pursuant to N.J.S person(s) who executed the foregoing execution of same. | 5.A. 41:2-1, having iden | tified the |
| Legal Name of inv | entor: Amey Vijaykumar Karandikar | | |
| Signature: | Attorney's Signature: Josephine S. Attorney's Name: Josephine A. PALTIN, of New Jersey, authorized pursuant to N.J.S. person(s) who executed the foregoing execution of same. | A. 41:2-1. having ident | 20/4 ne State ified the |

| Application No.: 14/152,871 Filing Date: January 10, 2014 | | Docket Number: COMMV.203A Page 3 of 3 |
|---|---|---|
| Legal Name of in | ventor: Manoj Kumar Vijayan | |
| Signature: | | Date: |
| | Attorney's Signature: | Date: |
| Legal Name of inv | person(s) who executed the for execution of same. entor: Deepak Raghunath Attard | oregoing document and who affirmed |
| | | |
| | | Date: |
| | Attorney's Name: JOSEPHINE A. of New Jersey, authorized pursuan | PALTIN, an Attorney-at-Law of the State to N.J.S.A. 41:2-1, having identified the regoing document and who affirmed |

Docket Number: COMMV.203A

Page 1 of 3

ASSIGNMENT

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| Filing Date: January 10, 2014 | | Docket Number: | Page 2 of | |
|-------------------------------|--|---|--------------------|--|
| | ventor: Prakash Varadh | · | | |
| Signature: | *************************************** | Date: | Date: | |
| | 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. | | | |
| Legal Name of inv | rentor: Anand Vibhor | | | |
| Signature: | | Date: | , | |
| | Attorney's Signature: | Date: | P42776444444444444 | |
| | of New Jersey, authorize | PHINE A. PALTIN, an Attorney-at-Law of the pursuant to N.J.S.A. 41:2-1, having idented the foregoing document and who | tified the | |
| | entor: Amey Vijaykumar | · Karandikar | | |
| Signature: | | Date: | | |
| • | | Date: | | |
| | Attorney's Name: JOSEF of New Jersey, authorized | PHINE A. PALTIN, an Attorney-at-Law of the dispursuant to N.J.S.A. 41:2-1, having idention the foregoing document and who a | ne State | |

| Application No.: 14/152,871 Filing Date: January 10, 2014 | | Docket Number: COMMV.203A Page 3 of 3 |
|---|--|--|
| Legal Name of in | ventor: Manoj Kumar Vijayan | |
| Signature: | Attorney's Signature: fas plane(Attorney's Name: JOSEPHINE A. PAL of New Jersey, authorized pursuant to be person(s) who executed the forego execution of same. | TIN, an Attorney-at-Law of the State N.J.S.A. 41:2-1, having identified the |
| | ventor: Deepak Raghunath Attarde | Date: |
| | Attorney's Signature: | *************************************** |
| | Attorney's Name: JOSEPHINE A. PALT of New Jersey, authorized pursuant to New Jersey, authorized the foregoing account of some | riN, an Attorney-at-Law of the State LJ.S.A. 41:2-1, having identified the |

Docket Number: COMMV.203A

Page 1 of 3

ASSIGNMENT

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| Application No.: 14/152,871 Filing Date: January 10, 2014 | | Docket Number: COMMV.203A Page 2 of 3 | |
|---|---|--|--|
| Legal Name of inv | ∕entor: Prakash Varadharajan | | |
| Signature: | | Date: | |
| | Attorney's Signature: | Date: | TO THE TAXABLE PARTY OF TAXAB |
| | of New Jersey, authorized pure | E.A. PALTIN, an Attorney-at-Law of suant to N.J.S.A. 41:2-1, having ide o foregoing document and who | ntified the |
| Legal Name of inv | ventor: Anand Vibhor | Date: | |
| | | Date: | |
| | Attorney's Name: JOSEPHINE of New Jersey, authorized purs | E A. PALTIN, an Attorney-at-Law of suant to N.J.S.A. 41:2-1, having idea foregoing document and who | the State |
| Legal Name of inv | entor: Amey Vijaykumar Kara | | |
| oignature; į | | | |
| | | Date: | |
| | of New Jersey, authorized purs | A. PALTIN, an Attorney-at-Law of uant to N.J.S.A. 41:2-1, having ider foregoing document and who | ntified the |

execution of same.

| Filing Date: January 10, 2014 | | Page 3 of 3 | | | |
|---|---|---|--|--|--|
| Legal Name of inventor: Manoj Kumar Vijayan | | | | | |
| Signature: | | Date: | | | |
| | Attorney's Signature: | Date: | | | |
| | of New Jersey, authorized pursua | PALTIN, an Attorney-at-Law of the State int to N.J.S.A. 41:2-1, having identified the foregoing document and who affirmed | | | |
| Legal Name of inv | rentor: Deepak Raghunath Attarc | le | | | |
| Signature: | Deltud | | | | |
| | Attorney's Signature: Josephi | paje: 3/2/12014 ine S. Jalipate: 3/21/2014 | | | |
| | Attorney's Name: JØSEPHINE A of New Jersey, authorized pursua | PALTIN, an Attorney-at-Law of the State nt to N.J.S.A. 41:2-1, having identified the oregoing document and who affirmed | | | |

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