

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5939196

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AAKASH CHAKRAVARTHY VIJAYAKUMAR	04/28/2017
SURYA PRAKASH RAMACHANDRAN	05/03/2017
PRASANNA KUMAR THOPPE RAVINDRAN	04/28/2017
GANESH KUMAR SUBRAMANIAN	04/28/2017
PAVAN KUMAR REDDY BEDADALA	04/27/2017
NEHA MATHUR	04/26/2017
SHILPA NAGENDRA	04/28/2017
SUPREETH SANUR	04/28/2017
JUGPREET SINGH TALWAR	04/28/2017
JIE CHEN	04/28/2017
PRIYA SUNDARESAN	04/28/2017
RAJESH POLIMERA	04/28/2017
HARI PRASAD RAVULA	04/28/2017
VINAY K. PAMARTHI	05/01/2017

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:	15976770

CORRESPONDENCE DATA

Fax Number: (206)359-9398

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: 2063598000

Email: patentprocurement@perkinscoie.com

Correspondent Name: PERKINS COIE LLP
Address Line 1: P.O. BOX 1247
Address Line 2: PATENT-SEA
Address Line 4: SEATTLE, WASHINGTON 98111

ATTORNEY DOCKET NUMBER: 060692-8148.US01

NAME OF SUBMITTER: ANNDREYA PEREZ

SIGNATURE: /Anndreya Perez/

DATE SIGNED: 01/30/2020

Total Attachments: 80

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ASSIGNMENT BY INVENTORS

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

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Ameer Krishna Apts, 3rd Main Road LIC Nagar, Madipakkam, Chennai, 600091, India;
- Surya Prakash Ramachandran, a citizen of India, having a mailing address of No.1, 4th Street, Iyappan Nagar, Kamaraj Nagar, Avadi, Chennai, Tamil Nadu, PIN Code- 600071 India;
- Prasanna Kumar Thoppe Revindran, a citizen of India, having a mailing address of 11/147, Chinna Kanmal 7th Street, C M R Road, Madurai City, Pincode: 625009, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
- Pavan Kumar Reddy Bedadala, a citizen of India, having a mailing address of 9 Masters Blvd. Piscataway, New Jersey 08854 USA;
- Neha Mathur, a citizen of India, having a mailing address of 84 Austin Street, Tinton Falls, New Jersey 07712 USA;
- Shilpa Nagendra, a citizen of India, having a mailing address of 1578 Vista Club Circle Apt. 128, Santa Clara, California 95054 USA;
- Supreeth Sarur, a citizen of India, having a mailing address of 65 Rio Robles E, Apt. 3302, San Jose, California 95134 USA;
- Jugpreet Singh Talwar, a citizen of India, having a mailing address of 190 Ryland Street, San Jose, California 95110 USA;
- Jie Chen, a citizen of China, having a mailing address of 3077 Zion Lane, San Jose, California 95132 USA;
- Priya Sundaresan, a citizen of India, having a mailing address of 335 Elan Village Lane #222, San Jose, California 95134 USA;
- Rajesh Polimera, a citizen of India, having a mailing address of 81 Wood Duck Court, Freehold, New Jersey 07728 USA;
- Hari Prasad Ravula, a citizen of India, having a mailing address of 8 Country Club Rd. Apt. 28 Eatontown, New Jersey 07724 USA;

- Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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 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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080692-8148.US00

Assignor's Signature: _____

V. Akash

AAKASH CHAKRAVARTHY VIJAYAKUMAR

Attorney's Signature: _____

Date: _____

28 April 2017

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: _____

SURYA PRAKASH RAMACHANDRAN

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: _____

PRASANNA KUMAR THOPPE RAVINDRAN

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080882-8148.US00

Assignor's Signature: _____

GANESH KUMAR SUBRAMANIAN

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: _____

PAVAN KUMAR REDDY BEDADALA

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: _____

NEHA MATHUR

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

SHILPA NAGENDRA

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: _____

SUPREETH SANUR

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: _____

JUGPREET SINGH TALWAR

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060602-8148.US00

Assignor's Signature: _____

JIE CHEN

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: _____

PRIYA SUNDARESAN

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: _____

RAJESH POLIMERA

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080892-8148.US00

Assignor's Signature: _____

HARI PRASAD RAVULA

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: _____

VINAY K. PAMARTHI

Attorney's Signature: _____ Date: _____

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- Prasanna Kumar Thoppe Ravindran, a citizen of India, having a mailing address of 11/147, Chinna Kanmal 7th Street, C M R Road, Madurai City, Pincode: 625008, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
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- Vinay K. Pamarthi, a citizen of India, having a mailing address of 158 Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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.

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(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.

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.

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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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.156
Attorney Docket No.: 060692-8148.US00


Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____


SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: May 03, 2017

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: _____

PRASANNA KUMAR THOPPE RAVINDRAN

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.572.USP1.150
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PAVAN KUMAR REDDY BEDADALA

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NEHA MATHUR

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.572.USP1.150
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Assignor's Signature: _____

SHILPA NAGENDRA

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: _____

SUPREETH SANUR

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.

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JUGPREET SINGH TALWAR

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080882-8148.US00

Assignor's Signature: _____

JIE CHEN

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: _____

PRIYA SUNDARESAN

Attorney's Signature: _____ Date: _____

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RAJESH POLIMERA

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.672.USP1.150
Attorney Docket No.: 060892-8148.US00

Assignor's Signature: _____

HARI PRASAD RAVULA

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: _____

VINAY K. PAMARTHI

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");

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Ameer Krishna Apts, 3rd Main Road Lic Nagar, Madipakkam, Chennai, 600091, India;
- Surya Prakash Ramachandran, a citizen of India, having a mailing address of No.1, 4th Street, Iyappan nagar, Kamaraj Nagar, Avadi, Chennai, Tamil Nadu , PIN Code- 600071 India;
- Prasanna Kumar Thoppe Ravindran, a citizen of India, having a mailing address of 11/147, Chinna Karmai 7th Street, C M R Road, Madurai City, Pincode: 625009, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
- Pavan Kumar Reddy Bedadala, a citizen of India, having a mailing address of 9 Masters Blvd. Piscataway, New Jersey 08854 USA;
- Neha Mathur, a citizen of India, having a mailing address of 84 Austin Street, Tinton Falls, New Jersey 07712 USA;
- Shilpa Nagendra, a citizen of India, having a mailing address of 1578 Vista Club Circle Apt. 128, Santa Clara, California 95054 USA;
- Supreeth Sarur, a citizen of India, having a mailing address of 65 Rio Robles E, Apt. 3302, San Jose, California 95134 USA;
- Jugpreet Singh Talwar, a citizen of India, having a mailing address of 190 Ryland Street, San Jose, California 95110 USA;
- Jie Chen, a citizen of China, having a mailing address of 3077 Zion Lane, San Jose, California 95132 USA;
- Priya Sundaresan, a citizen of India, having a mailing address of 335 Elan Village Lane #222, San Jose, California 95134 USA;
- Rajesh Polimera, a citizen of India, having a mailing address of 81 Wood Duck Court, Freshhold, New Jersey 07728 USA;
- Hari Prasad Ravula, a citizen of India, having a mailing address of 8 Country Club Rd. Apt. 26 Eatontown, New Jersey 07724 USA;

- Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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 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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PRASANNA KUMAR THOPPE RAVINDRAN

Attorney's Signature: _____

Date: _____

28 April 2017

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 Docket No.: 100.572.USP1.150
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Assignor's Signature: _____

GANESH KUMAR SUBRAMANIAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PAVAN KUMAR REDDY SEDADALA

Attorney's Signature: _____ Date: _____

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NEHA MATHUR

Attorney's Signature: _____ Date: _____

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Attorney's Signature: _____ Date: _____

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PRIYA SUNDARESAN

Attorney's Signature: _____ Date: _____

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RAJESH POLIMERA

Attorney's Signature: _____ Date: _____

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HARI PRASAD RAVULA

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VINAY K. PAMARTHI

Attorney's Signature: _____ Date: _____

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- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Ameer Krishna Apts, 3rd Main Road LIC Nagar, Madipakkam, Chennai, 600091, India;
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- (b) all provisional patent applications relating to the invention(s) and Application;
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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.

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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;
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- (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.

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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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080692-8148.US00

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

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: _____

PRASANNA KUMAR THOPPE RAVINDRAN

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060882-8148.US00

Assignor's Signature: _____

Ganesh Kumar

GANESH KUMAR SUBRAMANIAN

Attorney's Signature: _____

Josephine A. Paltin

Date: _____

28 April 2017

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: _____

PAVAN KUMAR REDDY BEDADALA

Attorney's Signature: _____

Date: _____

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NEHA MATHUR

Attorney's Signature: _____

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Assignee Docket No.: 100.572.USP1.150
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SHILPA NAGENDRA

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SUPREETH SANUR

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Assignee Docket No.: 100,572.USP1.150
Attorney Docket No.: 660882-6148.US00

Assignor's Signature: _____

JIE CHEN

Attorney's Signature: _____ Date: _____

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PRIYA SUNDARESAN

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RAJESH POLIMERA

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ASSIGNMENT BY INVENTORS

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

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Ameer Krishna Apts, 3rd Main Road Lic Nagar, Madipakkam, Chennai, 600091, India;
- Surya Prakash Ramachandran, a citizen of India, having a mailing address of No.1, 4th Street, Iyappan nagar, Kamaraj Nagar, Avadi, Chennai, Tamil Nadu , PIN Code- 600071 India;
- Prasanna Kumar Thoppe Ravindran, a citizen of India, having a mailing address of 11/147, Chinna Kanmai 7th Street, C M R Road, Madurai City, Pincode: 625009, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
- Pavan Kumar Reddy Bedadala, a citizen of India, having a mailing address of 9 Masters Blvd. Piscataway, New Jersey 08854 USA;
- Neha Mathur, a citizen of India, having a mailing address of 84 Austin Street, Tinton Falls, New Jersey 07712 USA;
- Shilpa Nagendra, a citizen of India, having a mailing address of 1578 Vista Club Circle Apt. 128, Santa Clara, California 95054 USA;
- Supreeth Sanur, a citizen of India, having a mailing address of 65 Rio Robles E, Apt. 3302, San Jose, California 95134 USA;
- Jugpreet Singh Talwar, a citizen of India, having a mailing address of 190 Ryland Street, San Jose, California 95110 USA;
- Jie Chen, a citizen of China, having a mailing address of 3077 Zion Lane, San Jose, California 95132 USA;
- Priya Sundaresan, a citizen of India, having a mailing address of 335 Elan Village Lane #222, San Jose, California 95134 USA;
- Rajesh Polimera, a citizen of India, having a mailing address of 81 Wood Duck Court, Freehold, New Jersey 07728 USA;
- Hari Prasad Ravula, a citizen of India, having a mailing address of 8 Country Club Rd. Apt. 26 Eatontown, New Jersey 07724 USA;

- * Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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 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: October 03, 2016.

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: _____

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PRASANNA KUMAR THOPPE RAVINDRAN

Attorney's Signature: _____ Date: _____

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GANESH KUMAR SUBRAMANIAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____



PAVAN KUMAR REDDY BEDADALA

Attorney's Signature: _____ Date: 27 April 2017

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: _____

NEHA MATHUR

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.

Assignee Docket No.: 100.572.USP1.150

Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

SHILPA NAGENDRA

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.

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SUPREETH SANUR

Attorney's Signature: _____ Date: _____

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JUGPREET SINGH TALWAR

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PRIYA SUNDARESAN

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: _____

RAJESH POLIMERA

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080692-8148.US00

Assignor's Signature: _____

HARI PRASAD RAVULA

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

VINAY K. PAMARTHI

Attorney's Signature: _____ Date: _____

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- Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017 as U.S. Application No. 62/504,978 (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.

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- (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.

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(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.

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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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.150

Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: _____

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PRASANNA KUMAR THOPPE RAVINDRAN

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GANESH KUMAR SUBRAMANIAN

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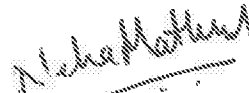
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PAVAN KUMAR REDDY BEDADALA

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Assignor's Signature: _____



NEHA MATHUR

Attorney's Signature: _____ Date: 26 April 2017

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 Docket No.: 100.572.USP1.150

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SHILPA NAGENDRA

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SUPREETH SANUR

Attorney's Signature: _____ Date: _____

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JUGPREET SINGH TALWAR

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PRIYA SUNDARESAN

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RAJESH POLIMERA

Attorney's Signature: _____ Date: _____

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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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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 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: October 03, 2016.

Assignor's Signature: _____

AAKASH CHAKRAVATHY VIJAYKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PRASANNA KUMAR THOPPE RAVINDRAN

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 080592-S148.US00

Assignor's Signature: _____

GANESH KUMAR SUBRAMANIAN

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: _____

PAVAN KUMAR REDDY BEDADALA

Attorney's Signature: _____ Date: _____

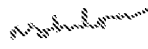
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Assignor's Signature: _____

NEHA MATHUR

Attorney's Signature: _____ Date: _____


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Assignor's Signature: 

SHILPA NAGENDRA

Attorney's Signature:  Date: 28 April 2017

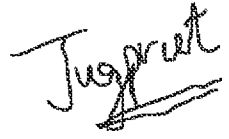
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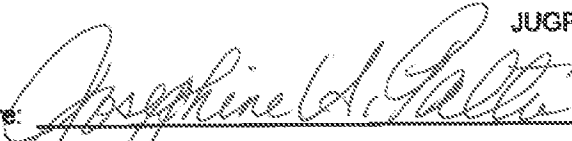
SUPREETH SANUR

Attorney's Signature:  Date: 28 April 2017

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: 

JUGPREET SINGH TALWAR

Attorney's Signature:  Date: 28 April 2017

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: _____

Jie Chen

JIE CHEN

Attorney's Signature: _____

Josephine A. Paltin

Date: _____

28 April 2017

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: _____

Priya

PRIYA SUNDARESAN

Attorney's Signature: _____

Josephine A. Paltin

Date: _____

28 April 2017

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Assignor's Signature: _____

RAJESH POLIMERA

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

HARI PRASAD RAVULA

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: _____

VINAY K. PAMARTHI

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"):

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Ameer Krishna Apts, 3rd Main Road Lic Nagar, Madipakkam, Chennai, 600091, India;
- Surya Prakash Ramachandran, a citizen of India, having a mailing address of No.1, 4th Street, Iyappan nagar, Kamaraj Nagar, Avadi, Chennai, Tamil Nadu , PIN Code- 600071 India;
- Prasanna Kumar Thoppe Ravindran, a citizen of India, having a mailing address of 11/147, Chinna Kanmai 7th Street, C M R Road, Madurai City, Pincode: 625009, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
- Pavan Kumar Reddy Bedadala, a citizen of India, having a mailing address of 9 Masters Blvd. Piscataway, New Jersey 08854 USA;
- Neha Mathur, a citizen of India, having a mailing address of 84 Austin Street, Tinton Falls, New Jersey 07712 USA;
- Shiipa Nagendra, a citizen of India, having a mailing address of 1578 Vista Club Circle Apt. 128, Santa Clara, California 95054 USA;
- Supreeth Sanur, a citizen of India, having a mailing address of 65 Rio Robles E, Apt. 3302, San Jose, California 95134 USA;
- Jugpreet Singh Talwar, a citizen of India, having a mailing address of 190 Ryland Street, San Jose, California 95110 USA;
- Jie Chen, a citizen of China, having a mailing address of 3077 Zion Lane, San Jose, California 95132 USA;
- Priya Sundaresan, a citizen of India, having a mailing address of 335 Elan Village Lane #222, San Jose, California 95134 USA;
- Rajesh Polimera, a citizen of India, having a mailing address of 81 Wood Duck Court, Freehold, New Jersey 07728 USA;
- Hari Prasad Ravula, a citizen of India, having a mailing address of 8 Country Club Rd. Apt. 26 Eatontown, New Jersey 07724 USA;

- * Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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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- (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);
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- (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.

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- (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.

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.

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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: October 03, 2016.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

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: _____

PRASANNA KUMAR THOPPE RAVINDRAN

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GANESH KUMAR SUBRAMANIAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PAVAN KUMAR REDDY BEDADALA

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: _____

NEHA MATHUR

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060892-8148.US00

Assignor's Signature: _____

SHILPA NAGENDRA

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

SUPREETH SANUR

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

JUGPREET SINGH TALWAR

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

JIE CHEN

Attorney's Signature: _____ Date: _____

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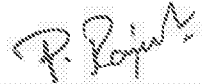
Assignor's Signature: _____

PRIYA SUNDARESAN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____



RAJESH POLIMERA

Attorney's Signature:  Date: 28 April 2017

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 Docket No.: 100.572.USP1.150
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HARI PRASAD RAVULA

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VINAY K. PAMARTHI

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ASSIGNMENT BY INVENTORS

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

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Amaar Krishna Apts, 3rd Main Road Lic Nagar, Madipakkam, Chennai, 600091, India;
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- (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.

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: October 03, 2016.

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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: _____

SURYA PRAKASH RAMACHANDRAN

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: _____

PRASANNA KUMAR THOPPE RAVINDRAN

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.

Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060682-8148.US00

Assignor's Signature: _____

GANESH KUMAR SUBRAMANIAN

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: _____

PAVAN KUMAR REDDY BEDADALA

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

NEHA MATHUR

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

SHILPA NAGENDRA

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

SUPREETH SANUR

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

JUGPREET SINGH TALWAR

Attorney's Signature: _____ Date: _____

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JIE CHEN

Attorney's Signature: _____ Date: _____

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Assignor's Signature: _____

PRIYA SUNDARESAN

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: _____

RAJESH POLIMERA

Attorney's Signature: _____ Date: _____

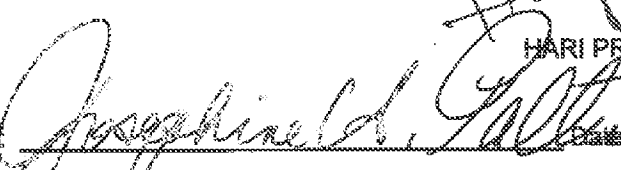
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Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____


HARI PRASAD RAVULA

Attorney's Signature: _____

 28 April 2017
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: _____

VINAY K. PAMARTHI

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"):

- AAKASH CHAKRAVARTHY VIJAYAKUMAR, a citizen of India, having a mailing address of 143/19 Aamar Krishna Apts, 3rd Main Road Lic Nagar, Madipakkam, Chennai, 600091, India;
- Surya Prakash Ramachandran, a citizen of India, having a mailing address of No.1, 4th Street, Iyappan nagar, Kamaraj Nagar, Avadi, Chennai, Tamil Nadu , PIN Code- 600071 India;
- Prasanna Kumar Thoppe Ravindran, a citizen of India, having a mailing address of 11/147, Chinna Kanmai 7th Street, C M R Road, Madurai City, Pincod: 625009, Tamil Nadu, India;
- Ganesh Kumar Subramanian, a citizen of India, having a mailing address of 9 Ayyappa Nagar, State Bank Colony 2nd Street, NGO Colony, Palayamkottai, Tirunelveli - 627007 India;
- Paven Kumar Reddy Bedadala, a citizen of India, having a mailing address of 9 Masters Blvd. Piscataway, New Jersey 08854 USA;
- Neha Mathur, a citizen of India, having a mailing address of 84 Austin Street, Tinton Falls, New Jersey 07712 USA;
- Shilpa Nagendra, a citizen of India, having a mailing address of 1578 Vista Club Circle Apt. 128, Santa Clara, California 95054 USA;
- Supreeth Sanur, a citizen of India, having a mailing address of 65 Rio Robles E, Apt. 3302, San Jose, California 95134 USA;
- Jugpreet Singh Talwar, a citizen of India, having a mailing address of 190 Ryland Street, San Jose, California 95110 USA;
- Jie Chen, a citizen of China, having a mailing address of 3077 Zion Lane, San Jose, California 95132 USA;
- Priya Sundaresan, a citizen of India, having a mailing address of 335 Elan Village Lane #222, San Jose, California 95134 USA;
- Rajesh Polimera, a citizen of India, having a mailing address of 81 Wood Duck Court, Freehold, New Jersey 07728 USA;
- Hari Prasad Revula, a citizen of India, having a mailing address of 8 Country Club Rd. Apt. 26 Eatontown, New Jersey 07724 USA;

- * Vinay K. Pamarthi, a citizen of India, having a mailing address of 15B Lakeview Terrace, Eatontown, New Jersey 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 an application for Patent of the United States, which is currently entitled **NATURAL LANGUAGE INTEGRATED WITH DATABASE MANAGEMENT** and naming Assignor as the sole inventor(s), and filed on May 11, 2017, as U.S. Application No. 62/504,978 (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;
- (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.

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(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.

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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: October 03, 2016.

Assignor's Signature: _____

AAKASH CHAKRAVARTHY VIJAYAKUMAR

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.

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SURYA PRAKASH RAMACHANDRAN

Attorney's Signature: _____ Date: _____

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PAVAN KUMAR REDDY BEDADALA

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NEHA MATHUR

Attorney's Signature: _____ Date: _____

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Assignee Docket No.: 100.572.USP1.150
Attorney Docket No.: 060692-8148.US00

Assignor's Signature: _____

SHILPA NAGENDRA

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.

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SUPREETH SANUR

Attorney's Signature: _____ Date: _____

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JUGPREET SINGH TALWAR

Attorney's Signature: _____ Date: _____

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PRIYA SUNDARESAN

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RAJESH POLIMERA

Attorney's Signature: _____ Date: _____

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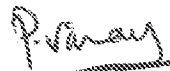
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HARI PRASAD RAVULA

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Assignor's Signature: _____



VINAY K. PAMARTHI

Attorney's Signature: _____



Date: _____

May 01, 2017

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