

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Peter Corbett</td><td>01/05/2001</td></tr><tr><td>Michael Kazar</td><td>12/29/2009</td></tr><tr><td>Bruce Leverett</td><td>01/19/2010</td></tr><tr><td>Alan S. Driscoll</td><td>01/07/2010</td></tr><tr><td>Srishylam Simharajan</td><td>02/01/2010</td></tr><tr><td>Toby Smith</td><td>02/18/2010</td></tr><tr><td>Devang Shah</td><td>01/07/2010</td></tr></tbody></table>		Name	Execution Date	Peter Corbett	01/05/2001	Michael Kazar	12/29/2009	Bruce Leverett	01/19/2010	Alan S. Driscoll	01/07/2010	Srishylam Simharajan	02/01/2010	Toby Smith	02/18/2010	Devang Shah	01/07/2010
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<table border="1"><tr><td>Name:</td><td>NetApp, Inc.</td></tr><tr><td>Street Address:</td><td>495 East Java Drive</td></tr><tr><td>City:</td><td>Sunnyvale</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94089</td></tr></table>		Name:	NetApp, Inc.	Street Address:	495 East Java Drive	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94089						
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PROPERTY NUMBERS Total: 1																	
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12713744</td></tr></tbody></table>		Property Type	Number	Application Number:	12713744												
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Application Number:	12713744																
CORRESPONDENCE DATA																	
Fax Number: (650)838-4350 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone: 650-838-4300																	
Email: patentprocurement@perkinscoie.com																	
Correspondent Name: Perkins Coie LLP																	
Address Line 1: P.O. Box 1208																	
Address Line 4: Seattle, WASHINGTON 98111-1208																	
ATTORNEY DOCKET NUMBER:	67272-8222.US01																

501104076

PATENT
REEL: 023997 FRAME: 0984

CH \$40.00 12713744

NAME OF SUBMITTER:

Matthew Wade Hindman

Total Attachments: 8

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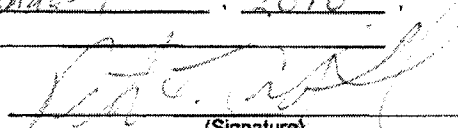
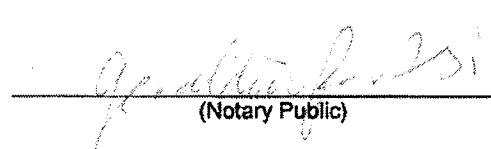
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Based on PTO Sample Form (former PTO/SB/15) (08/03)

ASSIGNMENT OF APPLICATION		Docket Number (Optional) 67272-8222.US01
<p>Whereas, I/We, <u>Peter Corbett</u> of <u>Lexington, Massachusetts</u>, hereafter referred to as applicant, have invented certain new and useful improvements in METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS</p> <p><input checked="" type="checkbox"/> for which an application for a United States Patent was filed on <u>Concurrently Herewith</u> Application Number _____</p> <p><input type="checkbox"/> for which an application for a United States Patent was executed on _____, and</p> <p>Whereas, <u>NetApp, Inc.</u> of <u>Delaware</u> here referred to as "assignee" whose mailing address is <u>495 East Java Drive, Sunnyvale, California 94089</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>Now, therefore, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.</p> <p>Executed this <u>5th</u> day of <u>January</u>, <u>2010</u>, at <u>W. Haverhill, MA</u></p> <div style="text-align: right; margin-right: 100px;"> (Signature)</div> <p>State of <u>Massachusetts</u>) County of <u>Norfolk</u>) SS: <u>Peter Corbett</u> Printed Name/Registration No., if applicable</p> <p>Before me personally appeared said <u>Peter Corbett</u> and acknowledged the foregoing instrument to be his free act and deed this <u>5th</u> day of <u>Jan</u>, <u>2010</u></p> <div style="text-align: right; margin-right: 100px;"> (Notary Public)</div> <p>Seal</p> <p><small>NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*</small></p> <p><input checked="" type="checkbox"/> *Total of <u>7</u> forms are submitted.</p>		

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Michael Kazar of _____

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
Application Number _____☐ for which an application for a United States Patent was executed on _____, andWhereas, NetApp, Inc. of Delaware here
referred to as "assignee" whose mailing address is 495 East Java Drive; Sunnyvale, California 94089
is desirous of acquiring the entire right, title and interest in the same;Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.Executed this 29 day of December, 2009
at 5000 McKnight Rd, Pitts. PA 15237
(Signature)State of Pennsylvania)
County of Allegheny) SS: Michael Kazar
Printed Name/Registration No., if applicableBefore me personally appeared said Michael Kazar
and acknowledged the foregoing instrument to be his free act and deed this 29
day of December, 2009

COMMONWEALTH OF PENNSYLVANIA

Seal

Notarial Seal
Geraldine J. Crivelli, Notary Public
Ross Twp., Allegheny County
My Commission Expires May 5, 2013
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of 7 forms are submitted.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Bruce Leverett of Pittsburgh, Pennsylvania

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
Application Number _____☐ for which an application for a United States Patent was executed on _____, andWhereas, NetApp, Inc. of Delaware here
referred to as "assignee" whose mailing address is 495 East Java Drive; Sunnyvale, California 94089

is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 19 day of January, 2010.
at Cranberry Twp. PA

Bruce W. Leverett
(Signature)

State of Pennsylvania)
County of Butler)

SS: Bruce Leverett
Printed Name/Registration No., if applicable

Before me personally appeared said Bruce Leverett

and acknowledged the foregoing instrument to be his free act and deed this

day of January, 2010

Seal COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Ashley Butler, Notary Public
Cranberry Twp., Butler County
My Commission Expires Feb. 28, 2013

Ashley Butler
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of 7 forms are submitted.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Alan S. Driscoll of Fremont, California

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
Application Number _____☐ for which an application for a United States Patent was executed on _____, andWhereas, NetApp, Inc. of Delaware here
referred to as "assignee" whose mailing address is 495 East Java Drive; Sunnyvale, California 94089
is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 7 day of January, 2010
at _____Alan S. Driscoll
(Signature)State of _____)
County of _____) SS: Alan S. Driscoll
Printed Name/Registration No., if applicableBefore me personally appeared said Alan S. Driscoll
and acknowledged the foregoing instrument to be his free act and deed this _____
day of _____

Seal

See attached
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of 7 forms are submitted.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Srishylam Simharajan of Cranberry Twp, Pennsylvania

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
Application Number _____☐ for which an application for a United States Patent was executed on _____, andWhereas, NetApp, Inc. of Delaware here referred to as "assignee" whose mailing address is 495 East Java Drive, Sunnyvale, California 94089

is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 1st day of FEBRUARY, 2010
at CRANBERRY TWP, PA-16066

S. R.
(Signature)

State of PENNSYLVANIA)
County of BUTLER) SS: Srishylam Simharajan
Printed Name/Registration No., if applicable

Before me personally appeared said Srishylam Simharajan
and acknowledged the foregoing instrument to be his free act and deed this 1st
day of FEBRUARY, 2010.

Seal
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Eileen M. Horne, Notary Public
Cranberry Twp., Butler County
My Commission Expires Oct. 29, 2013

Eileen M. Horne
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of 7 forms are submitted.

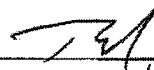
ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Toby Smith of Pittsburgh, Pennsylvania

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
Application Number _____☐ for which an application for a United States Patent was executed on _____, andWhereas, NetApp, Inc. of Delaware here
referred to as "assignee" whose mailing address is 495 East Java Drive, Sunnyvale, California 94089
is desirous of acquiring the entire right, title and interest in the same;Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States.
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behoof, and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.Executed this 18 day of February, 2010
at Google Pittsburgh, PA

(Signature)

State of PA)
County of Allegheny) SS: Toby Smith
Printed Name/Registration No., if applicableBefore me personally appeared said Toby Smith
and acknowledged the foregoing instrument to be his free act and deed this 18th
day of February, 2010

Seal

Christine Johnson, Notary Public
 Allegheny County
 My Commission Expires Oct. 15, 2010
 Member, Pennsylvania Association of Notaries



(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit
multiple forms if more than one signature is required, see below*.☒ *Total of 7 forms are submitted.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

67272-8222.US01

Whereas, I/We, Devang Shah of San Jose, California

hereafter referred to as applicant, have invented certain new and useful improvements in

METHOD AND APPARATUS FOR UNORDERED IDEMPOTENT LOGICAL REPLICATION OPERATIONS☒ for which an application for a United States Patent was filed on Concurrently Herewith
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referred to as "assignee" whose mailing address is 495 East Java Drive; Sunnyvale, California 94089
is desirous of acquiring the entire right, title and interest in the same;Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
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entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States.
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.Executed this 7th day of Jan, 2010
at _____
(Signature)State of _____)
County of _____) SS: Devang Shah
Printed Name/Registration No., if applicableBefore me personally appeared said Devang Shah
and acknowledged the foregoing instrument to be his free act and deed this
day of _____

Seal

See attached
(Notary Public)NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit
multiple forms if more than one signature is required, see below.☒ *Total of 7 forms are submitted.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

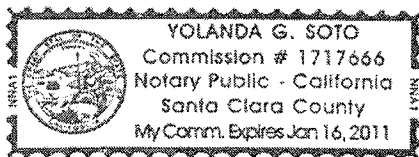
State of California

County of Santa Clara

On Jan 7, 2010 before me, Yolanda G. Soto
Date Here Insert Name and Title of the Officer

personally appeared Alan Stuart Driscoll and
Name(s) of Signer(s)
Devang K. Shari

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Yolanda G. Soto
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: P01-5621

Document Date: Jan 7, 2010 Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

☐ Corporate Officer — Title(s): _____ ☐ Corporate Officer — Title(s): _____

☐ Individual ☐ Individual

☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact ☐ Attorney in Fact

☐ Trustee ☐ Trustee

☐ Guardian or Conservator ☐ Guardian or Conservator

☐ Other: _____ ☐ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____