PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Thomas Holland	11/21/2008	
William McGovern	12/03/2008	

RECEIVING PARTY DATA

Name:	NetApp, Inc.
Street Address:	495 East Java Drive
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94089

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12330450

CORRESPONDENCE DATA

Fax Number: (408)720-8383

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 408-720-8300

Email: carla_nascimento@bstz.com

Correspondent Name: Joseph W. Sosinski
Address Line 1: 1279 Oakmead Parkway

Address Line 4: Sunnyvale, CALIFORNIA 94085-4040

NAME OF SUBMITTER: Joseph W. Sosinski

Total Attachments: 8

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ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 005693.P419
For good and valuable consideration, the receipt and	d sufficiency of which is hereby
acknowledged, I/we, the undersigned,Thomas Holland a	nd William McGovern
hereby sell, assign, and transfer to NetApp, Inc.	*
a <u>corporation</u> (Type of Assignee: e.g., corporation, company, partnership, university, e	of, tc.)
having a principal place of business at 495 East Java Driv	ve, Sunnyvale, CA 94089
("Assignee"), and its successors, assigns, and legal represe for the United States and all foreign countries, in and to any are disclosed in the application (provisional or non-provision have a declaration executed by the undersigned prior hereto Preserving Data Integrity of DMA I	and all inventions or improvements that al) for the United States patent which may or concurrently herewith and is entitled
said patent application also identified as follows (when know [I/we hereby authorize an attorney or agent for said and patent application who	Assignee to insert below the application

United States Patent Application Number 12/330,450 filed December 8, 2008,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

> Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway, Seventh Floor Los Angeles, CA 90025-1030 (408) 720-8300

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California		quan	
County of <u>Janta</u> C	lara		
Date A	re me, <u>YoN</u>	and G. Salv nakang. Here Insert Name and Title of the Officer.	public,
personally appeared	nas C	raig Holland Name(s) of Signer(s)	A STATE OF THE PROPERTY OF THE
Adultulululululululululululululululululul		who proved to me on the basis of satisfact be the person(s) whose name(s) (s) ale so within instrument and acknowledged ne same in (nis) had capacity (sec), and that by (nis) had their sign instrument the person(s), or the entity which the person(s) acted, executed the I certify under PENALTY OF PERJURY of the State of California that the foregoing true and correct.	ubscribed to the distribution of the distribut
		WITNESS my/nand and official seal.	
Place Notary Sest Above		Signature U Wanda L. Signature of Notary Public ONAL	to reday po
	t required by law, it i	may prove valuable to persons relying on the docu attachment of this form to another document.	ment
Description of Attached Docus	nent		
Title or Type of Document:	01-367	18	
Document Date: Nov- 21,	2008	Number of Pages:	
Signer(s) Other Than Named Above			
Capacity(ies) Claimed by Sign	er(s)		
Signer's Name:	Top of thursto here	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Trustee ☐ Guardian or Conservator ☐ Other:	
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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California personally appeared who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s/aré subscribed to the within instrument and acknowledged to me that (be/she/they executed the same in his/her/their authorized capacity(les), and that by (lis/her/their signature(s) on the instrument the person(s), or the entity upon behalf of YOLANDA G. SOTO Commission # 1717666 which the person(s) acted, executed the instrument. Notary Public - California 💈 Santa Clara County I certify under PENALTY OF PERJURY under the laws MAY Closentri, Etipliess John 16, 2011. of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Place Notary Seal 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 reallachment of this form to another document. Description of Attached Document Title or Type of Document: Document Date: 12 3 0% Number of Pages: Signer(s) Other Than Named Above: __ Capacity(les) Claimed by Signer(s) Signer's Name: Signer's Name: ___ ☐ Individual Individual ☐ Corporate Officer --- Title(s): _ Corporate Officer — Title(s): __ ☐ Partner — ☐ Limited ☐ General □ Partner — □ Limited □ General Attorney in Fact Attorney in Fact Top of thumb here Trustee Trustee ☐ Guardian or Conservator Guardian or Conservator

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Signer Is Representing:

☐ Other:

Signer is Representing:

Attorney Docket No.: 005693,P419	Patent
First Named Inventor: Thomas Holland	
Check One:	Complete If Known:
X Declaration Submitted with Initial Filing OR Declaration Submitted After Initial Filing (Surcharge under 37 C.F.R. § 1.16(f) Required).	Application No.: <u>Herewith</u> Filing Date: Art Unit: <u>Unassigned</u> Examiner Name: <u>Unassigned</u>
DECLARATION AND POWER OF ATTORNEY FOR	UTILITY OR DESIGN PATENT APPLICATION
I hereby declare that:	
(1) Each inventor's residence, mailing address, and citizens I believe the inventor(s) named below to be the original an and for which a patent is sought on the invention entitled: Preserving Data Integri	id first inventor(s) of the subject matter which is claimed
(Title of the Inve	ention)
the specification of which	
is attached hereto OR was filed on (MM/DD/YYYY) as United States Application No or PCT International Application and was amended on (MM/DD	umber n Number
I hereby state that I have reviewed and understand the corthe claim(s), as amended by any amendment specifically re	
I acknowledge the duty to disclose all information known t C.F.R. 1.56, including for continuation-in-part applications, between the filing date of the prior application and the nat continuation-in-part application.	material information which became available

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Rev. 05/29/2008

Authorization To Permit Access to Application by Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: (1) the above-identified application, (2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified US application, and (3) any U.S. application from which benefit is sought in the above-identified application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

Claim of Foreign Priority Benefits

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Check Bax Below Only if Priority Nat Claimed:	Certif	Certified Copy Attached?	
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)		Yes	No	
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	. П	☐ Yes	No.	
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)		□ Yes	No	
Additional for attached hereto.	eign application n	umbers are listed on a sup	plemental priority	data si	heet PTO/S8/028	

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Appointment of Patent Practitioners:

I hereby appoint the patent practitioners associated with the Customer Number 48102 as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

if this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

Direct all correspondence to (check one):

×	Customer	Number	48102	OR
	the state of the state of	***	ARREST STATES AND ADDRESS AND	

Correspondence Address Below:

Joseph W. Sosinski

(Name of Attorney or Agent) BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, California 94085-4040 U.S.A.

Telephone: (408) 720-8300 Fax: (408) 720-8383

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicant should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed finto the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: Patent Application Files. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: Deposit Accounts and Electronic Funds Transfer Profiles.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name: Thomas Holland (Given Name (First and Middle [Isany]), Family Name (or Surname), and Suffix [If any]) Inventor's Signature Date VOV 2/ 2-00 Residence Mountain View, CA USA (Citizenship USA (City, State, Country)) Mailing Address 495 East Java Drive Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern (Given Name (First and Middle [If any]), Family Name (or Surname), and Suffix [If any]) Inventor's Signature Date 12/3/2008 Residence San Jose, CA USA (Citizenship USA (Country))	NAME OF SOLE OR FIRST	INVENTOR:	A petition	has been filed fo	r this unsign	ed invento	ŕ
Inventor's Signature	Full Name: Thomas Ho	lland					
Residence Mountain View, CA USA Citizenship USA (City, State, Country) Mailing Address 495 East Java Drive Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern (Given Name (First and Middle (if any)), Family Name (or Surname), and Suffix (if any)) Inventor's Signature Date 12/3/2008 Residence San Jose, CA USA Citizenship USA							
Mailing Address 495 East Java Drive Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern [Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any]) Inventor's Signature Date 12/3/2008 Residence San Jose, CA USA Citizenship USA	Inventor's Signature		<i>A</i> /4/1_	Date	1/0/	27	200
Mailing Address 495 East Java Drive Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern [Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any]) Inventor's Signature Date 12/3/2008 Residence San Jose, CA USA Citizenship USA	Residence <u>Mounta</u>	in View, CA USA		Citizenship		USA	
Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern [Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix (if any]) Inventor's Signature Date 12/3/208 Residence San Jose, CA USA Citizenship USA	(Cit)	i, State, Country)		., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(6	ountry)	
Sunnyvale, CA 94089 NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Full Name: William McGovern [Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix (if any]) Inventor's Signature Date 12/3/208 Residence San Jose, CA USA Citizenship USA	Mailing Address 495	ast Java Drive					
Full Name: William McGovern (Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any]) Inventor's Signature Date 12/3/2008 Residence San Jose, CA USA Citizenship USA	Sunn	yvale, CA 94089					
Agiven Name (First and Middle [if any]), Family Name (or Surname), and Suffix (if any])	NAME OF SECOND INVER	ITOR:	A petition has be	en filed for this u	nsigned inve	otor	
Agiven Name (First and Middle [if any]), Family Name (or Surname), and Suffix (if any])	Full Name: William M	cGovern					
Residence San Jose, CA USA Citizenship USA		(Gjven Name (First and					
	Inventor's Signature	Mos K	<u> Mar</u>	Date	12/3/	2008	
	Residence Sar	Jose, CA USA		Citizenship		USA	
					(C	ountry)	
Mailing Address 495 East Java Drive Sunnyvale, CA 94089							mmeeneleeveelee

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RECORDED: 12/09/2008