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FÖRM PTO-1595	U.S. DEPARTMENT OF COMMERCE
	ORM COVER SHEET United States Patent and Trademark
Office OMB No. 0651-0027 (exp. 06/30/2008)	
PATENT	SONLY
To the Director of the U.S. Patent and Trademark Office: Please	2. Name and address of receiving party(ies):
1. Name of conveying party(ies):	Z. Name and address of receiving partyles).
Panasas, Inc.	Name: Silicon Valley Bank
969 W. Maude Ave.	Name: Silicon Valley Bank
Sunnyvale, CA 94085	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No	internal Address.
3. Nature of conveyance/Execution Date(s):	Street Address: 3003 Tasman Drive
Execution Date: June 28, 2011	Diddicos. See I dellion serve
Execution Date. Julie 20, 2011	City: Santa Clara
Assignment Merger	Only.
Security Agreement Change of Name	State: CA
Joint Research Agreement	otato.
Government Interest Assignment	Country: USA Zip: 95054
Executive Order 9424, Confirmatory License	Country.
	Additional name(s) & address(es) attached? Yes No
Other	Madidollal flatfle(s) & accress(cs) attached. [100 62 10
4. Application or patent number(s):	This document is being filed together with a new application.
4. Application or patent number(s).	Li This doddhere is being med together with a few approach.
A Phase Annie Ale (-)	B. Patent No.(s)
A. Patent Application No.(s) 10372346	D483376 7007024 7194467
11825921	D483377 7007047 7461302
10918200	D483378 7036039 7681072
12149583	D483766 7155464 7793146
12219323	6985995 7191357 7805412
Additional numbers att	ached? Yes 🛛 No
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 20
concerning document should be mailed:	
•	
Name: UCC Direct Services	7. Total fee (37 CFR 1.21 (h) & 3.41) \$800.00
Internal Address: Attn: 14080632	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 187 Wolf Road, Suite 101	☐ Enclosed
	None required (government Interest not affecting title)
City: Albany	
State: NY Zip: 12205	8. Payment Information
	a. Credit Card Last 4 Numbers 5 6 83
Phone Number: 1-800-342-3676 X 4065	a. Credit Card Last 4 Numbers
	Expiration Date , o / la-
Fax Number: 800-962-7049	Later to the state of the state
	b. Deposit Account Number
Email Address: cls-udsalbany@woiterskluwer.com	Authorized User Name
11-10.	1 1.
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9. Signature: Signature	Date
SUSANO BKIE	21)
	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	sneet, anachments, and occurrents.

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of June 28, 2011, by and between SILICON VALLEY BANK ("Bank") and PANASAS, INC., a Delaware corporation ("Grantor").

RECITALS

- A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank. Grantor, and Panasas Federal Systems, Inc., a Delaware corporation, dated December 11, 2008 (as amended and as the same may be further amended, modified or supplemented from time to time, the "Loan Agreement": capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works to secure the obligations of Grantor under the Loan Agreement.
- B. Pursuant to the terms of the Loan Agreement. Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW. THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement, Granter grants and piedges to Bank a security interest in all of Granter's right, title and interest in to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents, Trademarks and Mask Works listed on Schedules A, B, C, and D hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this

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Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or new or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have cause this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:	Panasas, Inc.
Panasas, Inc. 969 W. Maude Avenue Sunnyvale, CA 94085 Attn: Stephanie Vinella, CFO Fax: (408) 215-6801 Email: svinella@panasas.com	By: Stephanie Vinella Title: CFO
	BANK:
Address of Bank:	SILICON VALLEY BANK
Silicon Valley Bank 2400 Hanover Street Palo Alto, CA 94304 Attn: Liam Fairbairn Fax: (650) 320-0016 E-mail: Ifairbairn@syb.com	By: Name: Title:

EXHIBIT A

Copyrights

Description

Registration/ Application Number Registration/ Application Date

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EXHIBIT B

Patents

<u>Description</u>

Registration/ Application Number

Registration/ Application Date

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Exmisit B

US patents held

S.A.L.	Incus.	<u>Patent</u>	Inventor(s)	Tue	
	12/03	D483,376	Mundt	Cover for blank computer slot	
Design	12/03	D483,377	Mundt	Two door computer blade cover	
Design	1.2/03	D483.378	Mundt	Single door computer blade cover	
Design	12/03	D483.766	Mundt	Single door computer blade cover	
Design Utility	1/06	6.285.995	Holland, Welch	Data file migration from a mirrored RAID to a non- mirrored XOR-based RAID without rewriting the data	
Utility	2/06	7,007,024	Zelenka	Hashing objects into multiple directories for better concurrency	
Unlity	2/06	7,007,047	Zelenka. Holland	Internally consistent file system image in distributed object-based data storage	
Utility	4/06	7.036,039	Holland	Distributing manager-failure-induced workload through the use of a manager-naming scheme	
Chility	12/06	7.155.464	Belov	Recovering and checking large file systems in an object- based data storage system	
Utility	3/07	7,121,357	Holland. Zelenka. Gibson	Hybrid quorum/primary-backup fault-tolerance mod	
Utility	3/07	7,194,467	Holland	Using whole-file and dual-mode locks to reduce locking traffic in data storage systems	
Utility	12/08	7,461,302	Halevy	System and method for I/O error recovery	
Laility	3/10	7,981,072	Gibson, Nagle. Unangst	Systems and Methods For Facilitating File Reconstruction and Restoration In Data Storage Systems Where A Raid-X Format Is Implemented At A File Level Within A Plurality Of Storage Devices	
Lanity	12/07	7,793,146	Gibson, Belov	Systems and Methods For Facilitating File Reconstruction and Restoration in Data Storage Systems Where A Raid-X Format Is Implemented At A File Level Within A Plurality Of Storage Devices	
Utility	1/08	7.805.412	Small, Mian. Gibson	Systems and Methods For Parallel Reconstruction Of Files And Objects	

Explan B

Foreign patents held

	SSULE 1/111	Country	<u>Patent No.</u>	Inventor(s)	<u> Titte</u>
Utility	6409	China	ZL 200580034789.1	Unangst. Moyer	Distributed object-based storage system that stores virtualization maps in object attributes
Utility	6/09	Hong Kong	HKP0820063-CN- 2:50624	Unangst, Moyer	Distributed object-based storage system that stores virtualization maps in object attributes

Patents applied for

1.12c	Application Date	Application No.	<u>Inventor(s)</u>	<u>Ťfalle</u>
Utility	2/03	10/372,346 20040003055	Screnyi. Holland	Allowing client systems to interpret higher-revision data structures in storage systems
Utility	4/04	11/825,921; 10/918,202 20060036636	Small, Belov, Halevy	Distributed object-based storage system that uses pointers stored as attributes for object analysis and monitoring
Utility	8/04	10/918,200 20060036 <u>602</u>	Unangst, Moyer	Distributed object-based storage system that stores virtualization maps in object attributes
Ctility	5/08	12/149,583	Jacobson, Gibson	Data Storage Systems, Methods and Networks Having a Snapshot Efficient Block Map
Utility	7/08	12/219,323	Gronke. Welch, Gibson	Block Group Error Correcting Codes for Repairing Unrecoverable Read Errors
	8/4/05	1898/DELNP/2007		Distributed Object-Based Storage System that Stores Virtualization Maps in Object Attributes

EXHIBIT C

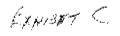
Trademarks

Description

Registration/ Application Number Registration/ Application Date

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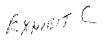
Panasas Trademark Portfolio (Active Only)



Merk	Reg. No.	Reg. Date	Status	Active / Expired	. behul
ACCELERATING	3399499	18-Mər-08	Registered	.Netwo	U.S.
TIME TO RESILTS	4,77447	10-MA1-00	E1001/10012 27/02		A CONTRACTOR OF THE CONTRACTOR
ACTIVESCALE	2886927	0);-Mar-2003	Registered	ACTIFIC	EFFCTM
ACTIVESCALE	284H304	01 - Tan 2004	Registered	Active-Removed 6-02010	U.S.
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DIRECTVION	2884112	27-Apr-2004	Regustyred	Active	rt/crtM
DIRECTELOW	2848375	111-3-m-20104	Registered	Active Renewed 6:17010	IJ.S.
DYRECTORBLADE	3883791	23-Sep-2004	Registered	Active	EISCTM
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				
DIRECTORBLADE	2836984	27/Apr-2004	Registered	Especial d 25 three	11.8.
Miscollaneous Design (Ponașas Logo)	2836972	27- Nar-2004	Registered	Active-Renewed 4/27/2010	U.S.
MYPANASAS	2884963	23-Sep-2004	Registered	Active	EURTM
MYPANASAS	2903681	16-Nov-2004	Rogistered	Active	U.\$.
PANACITAN,	2884120	06-848-2004	Registered	.Yeqiye	EUCIM
PANACTIVE	2792476	09-Dec-2003	Registered	h d'odent (200 3010)	11.8.
Average and a second se	and the state of t				
PANASAS	2518090	,03-Арт-2003	Registered	Active	EU/CTM
PANASAS	2798480	23-Due-2003	Registered	Active-Ranawod 12/23/2009	U.S.
Panasas P logo	2883635	13. May 2004	Registered	Activo	g0 tr 750
1 SELECTION OF THE PROPERTY OF	267771727	Colorate Stock	Programmer	,	125 15 1 154
PANASAS Plus P Design	1867312	27-4-2004	Registured	Active-Renewed 7.27/2010	U.S.

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Panasas Trademark Portfolio (Active Only)



Mark	Rog. No.	Reg. Date	Status	Active / Expired	Jurisd.
PANASAS STORAGE CLUSTER			Proposed/ unified	Proposed: vatikal	U.S.
STORAGERLADE	2848393	01-Jun-2004	Registered	\$ spanned to 1 1200g A	U.S

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EXHIBIT D

Mask Works

Description

Registration/ Application Number

Registration/ Application Date

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PATENT REEL: 026595 FRAME: 0059

RECORDED: 07/13/2011