_	
	661
	3399499
	0 3
-	00.0
	\$44
-	P
1	

COMMERCE RECORDATION (FORM COVER SHEET United States Patent and Trademark Office			
OMB No. 0651-0027 (exp. 06/30/2008)				
	IARKS ONLY ce: Please record the attached documents or the new address(es) below.			
Name of conveying party(ies): Panasas, Inc. Name of conveying party(ies):	2. Name and address of receiving party(ies): Additional name(s) of conveying parties attached? ☐Yes ☒ No			
969 W. Maude Ave. Sunnyvale, CA 94085	Name: Silicon Valley Bank			
_	Internal Address:			
☐ Individual(s) ☐ Association				
☐ General Partnership ☐ Limited Partnership	Street Address: 3003 Tasman Drive			
Corporation-State: DE				
☐ Other	City: Santa Clara State: CA			
Additional name(s) of conveying parties attached? ☐Yes ⊠ No	Country: USA			
3. Nature of conveyance/ Execution Date(s):	Zip: 94085			
Execution Date(s): June 28, 2011	Association Citizenship			
☐ Assignment ☐ Merger	☐ General Partnership Citizenship ☐ Limited Partnership Citizenship			
Security Agreement	 ☐ Corporation Citizenship : United States, California ☐ Other Citizenship 			
	If assignee is not domiciled in the United States, a domestic representative designation is attached: ☐ Yes ☒ No			
Other : 4. Application number(s) or registration number(s) and Iden	(Designations must be a separate document from assignment)			
A. Trademark Application No.(s)	B. Trademark Registration No.(s)			
11/11/11/11/11/11/11/11/11/11/11/11/11/	3399499 2848395 2884963 2518090 2848393 2886927 2883791 2903681 2798480			
1 - 1017 (172)	2848394 2836984 2884120 2883635			
A COLUMN TO THE TAKEN THE TAKE	2884112 2836972 2792470 2867312			
C. Identification or Description of Trademark(s) (and Filing E Registration Number is unknown):	Date if Application or Additional sheets attached? Yes No			
5. Name and address of party to whom correspondence	6. Total number of applications and			
concerning document should be mailed:	registrations involved: 17			
Name: UCC Direct Services				
Internal Address: Attn: 14080632	7. Total fee (37 CFR 2.6 (b)(6) & 3.41): \$ 440.00 Authorized to be charged by credit card			
Street Address: 187 Wolf Road, Suite 101	 ☐ Authorized to be charged to deposit account ☐ Enclosed 			
City: Albany State: NY ZIP: 12205	8. Payment Information:			
Phone Number: 1-800-342-3676 X 4065	a. Credit Card Last 4 Numbers 5-68-3 Expiration Date 6/6/1			
Fax Number: 1-800-962-7049	!			
Email Address: cls-udsalbany@wolterskluwer.com	b. Deposit Account Number Authorized User Name			
9. Signature.	7/7/1/			
Signature Sus An O	Date			
2 SUSANG	Total number of pages including cover			

Name of Person Signing

sheet, attachments, and document:

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").

RECUTALS

- 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, Tradomarks, 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, Grantor grants and pledges to Bank a security interest in all of Grantor'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

SF) 1678648v (

TRADEMARK REEL: 004578 FRAME: 0667 Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now 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 Ann: 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 Aito, CA 94304 Attn: Liam Fairbairn Fax: (650) 320-0016 E-mail: [fairbairn@svb.com	Name:

EXHIBIT A

Copyrights

Description

Registration/ Application Number Registration/ Application Date

None

EXHIBIT B

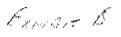
Patents

Description

Registration/ Application Number

Registration/ Application Date

SEE FOLLOwing



US patents held

	Issue Like	Parent No.	Inventor(s)	<u>Title</u>
Design	12/03	D483,376	Mundt	Cover for blank computer slot
Design	12/03	D483.377	Mundt	Two door computer blade cover
Design	12/03	D483,378	Mundt	Single door computer blade cover
Design	12/03	19483,766	Mundt	Single door computer blade cover
Utility	1706	6.985.995	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	Zelepka	Hashing objects into multiple directories for better concurrency
Unitiny	2/06	7,007,047	Zelenka. Holland	Internally consistent file system image in distributed object-based data storage
Utility	4/06	7.030.039	Holland	Distributing manager-failure-induced workload through the use of a manager-naming scheme
Litility	12/06	7.155.464	Bolov	Recovering and checking large file systems in an object- based data storage system
Utility	3/07	7.191.357	Holiand, Zelenka, Gibson	Hybrid quorum/primary-backup fault-tolerance model
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	Halcvy	System and method for I/O error recovery
स्मतीस्र	3/10	7/81/15/2	Gibson, Nagle, Unungst	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	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

TRADEMARK REEL: 004578 FRAME: 0671

EXMINET B

Foreign patents held

ZANDE	Issue Date	Country	Patent No.	HANGORUS (S.)	Line
Utility	6/09	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

Iyye .	Application <u>Date</u>	Application No.	Inventor(s)	Title
Utility	2/03	10/372,346 20040003055	Serenyi. Ffolland	Allowing client systems to interpret higher-revision data structures in storage systems
Utility	4/04	11/825,921; 10/918.202 20060036636	Small, Belov, Halovy	Distributed object-based storage system that uses pointers stored as attributes for object analysis and monitoring
Litlify	8/04	1 <mark>0/918,200</mark> 2006003 <u>6602</u>	Unangst. Moyer	Distributed object-based storage system that stores virtualization maps in object attributes
Utility	5/08	12/149,583	Jacobson, Gibson	Data Storage Systems, Methods and Networks Having a Snapshot Efficient Block Map
L'Glity	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

TRADEMARK REEL: 004578 FRAME: 0672

EXHIBIT C

Trademarks

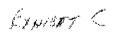
Description

Registration/ Application Number

Registration/ Application Date

JAC FALLOWING

Panasas Trademark Portfolio (Active Only)



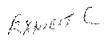
Mark	Reg. No.	Reg. Date	Statue	Active / Expired	Juried.
ACCELERATING FIME TO RESELTS	1300400	18-Mar-08	Registered	Active	V.S
ACTIVESCALE	2886927	02 Mars2005	Regustered	Active	F0 (30,194)
ACTIVESCALE	2848394	03-,665-2004	Registered	Active-Renewed 6 1/2010	U.S.
angart i i i ^r eti karangan kan kan kan kan kan kan kan kan kan k			***		klapikanya fakkap sak (MVn)); Bilaji bipikak abak
DIRECTELOW	2884112	27«Apr-2004	Registered	Active	EUSTM
		· · · · · · · · · · · · · · · · · · ·			and the state of t
DIRECTFLOW	2848395	(31 - turn-Z(934	P egistered	Active-Renewed 6/1/2010	U,S.
		the terminania			
DIRECTORMADE	288(3791	23-8cn-2004	18-agretatest	Active	EUCTM
(************************************					**************************************
DIRECTORELADE	2836984	27: 119-2004	Ruggetered	b Spicest 412712040	u.s.
and the second s					ATTION AND ADDRESS OF THE PARTY.
Miscullaneous Design (Paursas Logo)	2836972	27-Apr-2004	Registered	Active-Renewed 4/27/2010	£7, 8 ,
<u> </u>		· ····································			
MYPANASAS	2884963	23-Sep-2004	Rogistered	Active	EURCTM
V-11,	<i></i>				421.6
MYPANASAS	290,3681	16-New-2004	Registered	Astroc	Ų.s.
The state of the s			N. C. P. L. L. C.		1,445
የላእሌሮፕየላፑ	2884120	Obs Apr 2004	Registered	Active	WUW DM
And the state of t			A THE RESERVE OF THE PARTY OF T		1, 2, 24, 3341
TANACITYE	2792470	09-taes-2003	Regardered	7 Applicant 12,49-70000	11.8.
N-H-1646 nyunawawan/Promin na amaran manakana atomo ma					- 4 5 3 ° 9
PANASAS	2518090	03-Apro-2003	Registered	Acrive	EU/CTM
			Total Affice of Control of Control	1 (34.73.36	THE COLUMN TO SERVE
PANASAS	2798480	23-t3ec-2093	Registered	Aprive-Renewed 12/23/2009	U:S.
	The state of the s		in the process of the control of the		1,24 : 457 :
Panasas Plago	2883635	13. May. 2004	Registered	Active	DELICTES T
			3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	√. AFW1.k.C.	EGGTAT
'ANASAS Pun P Design	2867312	27-/10-2004	haratega 3	Active-Renewed	1) ¢
Andreas and the second	WM12016	. v e / 11 he (11 he)	ecquateren	7:27/2010	U.S.

Panasas Confidential

1 of 2

4/25/2011 2:47 PM

Panasas Trademark Portfolio (Active Only)



Mark	Reg. No.	Reg. Date	Status	Active / Expired	Juned.
PANASAS STORAGE CUSTER	When the traces we consiste a second	annon de la constanta de la co	Proposed/ untiled	Preprised/ un(ibal	U,S.
STORAGEBLADE	7,848,393	(15-Jum-21864	Regestered	Explose the COME	U.S.

Panasas Confidential 2 of 2 4/25/2011 2:47 PM

EXHIBITO

Mask Works

Description

Registration/ Application Number

Registration/ Application Date

SPI 16286an, t

TRADEMARK REEL: 004578 FRAME: 0676

RECORDED: 07/07/2011