

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4522369

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
ACRONIS INTERNATIONAL GMBH	07/21/2017
GROUPLOGIC, INC.	07/21/2017

RECEIVING PARTY DATA

Name:	OBSIDIAN AGENCY SERVICES, INC., AS COLLATERAL AGENT
Street Address:	2951 28TH STREET, SUITE 1000
City:	SANTA MONICA
State/Country:	CALIFORNIA
Postal Code:	90405

PROPERTY NUMBERS Total: 97

Property Type	Number
Patent Number:	8645748
Patent Number:	8732121
Patent Number:	8850060
Patent Number:	8856927
Patent Number:	8996830
Patent Number:	9213697
Patent Number:	9400886
Patent Number:	9424678
Patent Number:	9436558
Patent Number:	9471441
Patent Number:	9501234
Application Number:	14244541
Application Number:	14320409
Application Number:	14320393
Application Number:	14320422
Application Number:	14320450
Application Number:	14320496
Application Number:	14320510
Application Number:	14320526

PATENT

Property Type	Number
Application Number:	14320540
Application Number:	14320546
Application Number:	14457767
Application Number:	14869338
Application Number:	14870452
Application Number:	14867295
Application Number:	14502060
Application Number:	14867705
Application Number:	14870977
Application Number:	14868450
Application Number:	14869073
Application Number:	14502959
Application Number:	14952232
Application Number:	14964991
Application Number:	14984159
Application Number:	14959474
Application Number:	14984995
Application Number:	14971360
Application Number:	14986164
Application Number:	14965288
Application Number:	62098433
Application Number:	62147620
Application Number:	15143686
Application Number:	15165303
Application Number:	15176556
Application Number:	15201688
Application Number:	15195365
Application Number:	15204294
Application Number:	15236539
Application Number:	15245359
Application Number:	15245410
Application Number:	62218349
Application Number:	62216617
Application Number:	62218596
Application Number:	14948747
Application Number:	14948868
Application Number:	14987159
Application Number:	14987868

Property Type	Number
Application Number:	15404395
Application Number:	62278389
Application Number:	62316633
Application Number:	62279163
Application Number:	14986184
Application Number:	14988923
Application Number:	14985211
Application Number:	14979032
Application Number:	14969114
Application Number:	15079303
Application Number:	15086356
Application Number:	15131872
Application Number:	15086891
Application Number:	15084815
Application Number:	15464449
Application Number:	62316668
Application Number:	62316705
Application Number:	15137407
Application Number:	15183014
Application Number:	62351388
Application Number:	62405408
Application Number:	62334071
Application Number:	15215775
Application Number:	15392728
Application Number:	62352597
Application Number:	62414171
Application Number:	62360681
Application Number:	15047219
Application Number:	15297774
Application Number:	62383686
Application Number:	62412910
Application Number:	62412995
Application Number:	62459705
Application Number:	62445421
Application Number:	62452528
Application Number:	15429269
Application Number:	62463304
Application Number:	62458089

Property Type	Number
Application Number:	62459219
Application Number:	62471429

CORRESPONDENCE DATA

Fax Number: (202)835-7586

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.

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ATTORNEY DOCKET NUMBER: 37773.10200

NAME OF SUBMITTER: JAVIER J. RAMOS

SIGNATURE: /Javier J. Ramos/

DATE SIGNED: 07/26/2017

Total Attachments: 14

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Supplemental Patent Security Agreement

This **Supplemental Patent Security Agreement** (as amended, restated, modified or supplemented from time to time, this "Agreement"), dated as of July 21 2017, is made by ACRONIS INTERNATIONAL GMBH and GROUPLAGIC, INC. (individually, a "Grantor", and, collectively, the "Grantors"), in favor of OBSIDIAN AGENCY SERVICES, INC., in its capacity as collateral agent pursuant to the Credit Agreement (in such capacity, the "Collateral Agent").

WITNESSETH:

WHEREAS, the Grantors are party to a Guarantee and Collateral Agreement, dated as of February 21, 2014 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "GCA"), in favor of the Collateral Agent pursuant to which the Grantors granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in, among other property, certain intellectual property of the Grantors, and agreed as a condition thereof to execute and deliver that certain Patent Security Agreement, dated February 21, 2014 (the "Patent Security Agreement"), which was recorded with the U.S. Patent and Trademark Office on February 27, 2014 at reel 032366, frame 0328;

WHEREAS, under the terms of the GCA, the Grantors now hereby supplement the security interest in and to, among other property, certain intellectual property of the Grantors and execute this Supplemental Patent Security Agreement for submission to and recordation with the U.S. Patent and Trademark Office.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor agrees as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the GCA and used herein have the meaning given to them in the GCA.

SECTION 2. Grant of Security Interest in Patent and Patent License Collateral. Each Grantor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties a lien on and security interest in and mortgage on, and reaffirms existing grants of any lien on and security interest in and mortgage on, all of its right, title and interest in, to and under all the following Collateral of such Grantor:

- A. all Patents and Patent Licenses of such Grantor listed on Schedule I attached hereto;
- B. all Proceeds of any and all of the foregoing; and
- C. all rights to sue for past, present or future infringements thereof.

Notwithstanding anything to the contrary contained in clauses A, B and C above, the security interest created by this Supplemental Patent Security Agreement shall not extend to any Collateral excluded from the GCA.

SECTION 3. Guarantee and Collateral Agreement. The security interest granted pursuant to this Supplemental Patent Security Agreement is granted pursuant to the security interest granted to the Collateral Agent pursuant to the GCA and the Grantors hereby acknowledge and affirm that

the rights and remedies of the Collateral Agent with respect to the security interest in the Patents and Patent Licenses made and granted hereby are more fully set forth in the GCA, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Supplemental Patent Security Agreement is deemed to conflict with the GCA, the provisions of the GCA shall control unless the Collateral Agent shall otherwise determine.

SECTION 4. Termination. Upon the payment in full of the Secured Obligations and termination of the GCA, the Collateral Agent shall execute, acknowledge, and deliver to the Grantors an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patents and Patent Licenses under this Supplemental Patent Security Agreement.

SECTION 5. Counterparts. This Supplemental Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Supplemental Patent Security Agreement by signing and delivering one or more counterparts.

[signature page follows]

IN WITNESS WHEREOF, each Grantor has caused this Supplemental Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

ACRONIS INTERNATIONAL GMBH

By: _____

Name: Serguei Belousov

Title: Director

GROUPLAGIC, INC

By: _____

Name: Serguei Belousov

Title: Director and President

Accepted and Agreed:

OBSIDIAN AGENCY SERVICES, INC.,
as Collateral Agent

By: _____

Name: _____

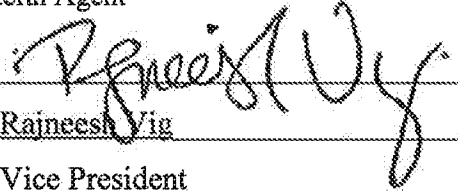
Title: _____

[Signature Page – Supplemental Patent Security Agreement]

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Accepted and Agreed:

OBSIDIAN AGENCY SERVICES, INC.,
as Collateral Agent

By: 
Name: Rajneesh Vig
Title: Vice President

[Signature Page to Supplemental Patent Security Agreement]

PATENT
REEL: 043350 FRAME: 0193

SCHEDULE I
to
SUPPLEMENTAL PATENT SECURITY AGREEMENT
PATENT REGISTRATIONS, PATENT APPLICATIONS AND PATENT LICENSES

Patent Registrations:

TITLE	GRANT DATE	PATENT NO.	ASSIGNEE
System and method for bare metal restore of a computer over a network	02/4/14	8,645,748	Acronis International GmbH
Method and system for backup to a hidden backup storage	05/20/14	8,732,121	Acronis International GmbH
Network interface within a designed virtual execution environment (VEE)	08/30/14	8,850,060	Acronis International GmbH
System and method for using snapshots for rootkit detection	10/07/14	8,856,927	Acronis International GmbH
System and method for efficient backup using hashes	03/31/15	8,996,830	Acronis International GmbH
System and method for restoration of MS Exchange server mail	12/15/15	9,213,697	Acronis International GmbH
System and method for using snapshots for rootkit detection	07/26/16	9,400,886	Acronis International GmbH
Method for Teleconferencing using 3-D Avatar	08/23/16	9,424,678 B1	Acronis International GmbH
System and method for fast backup and restoring using sorted hashes	09/6/16	9,436,558	Acronis International GmbH
Systems and methods for backup of virtual machines	06/30/14	9,471,441	Acronis International GmbH

TITLE	GRANT DATE	PATENT NO.	ASSIGNEE
System and Method for incrementally performing full data backup	11/22/16	9,501,234	Acronis International GmbH

Patent Applications:

TITLE	APPLICATION NUMBER	OWNER
Method and System for Backup to a Hidden Backup Storage	14/244,541	Acronis International GmbH
Using a Storage Path to Facilitate Disaster Recovery	14/320,409	Acronis International GmbH
Configuring Backup and Recovery Routines in a Cloud Environment	14/320,393	Acronis International GmbH
Granular Recovery Using Hot-Plug Virtual Disks	14/320,422	Acronis International GmbH
Hot Recovery Of Virtual Machines	14/320,450	Acronis International GmbH
Snapshotless backup	14/320,496	Acronis International GmbH
Recovery Of Virtual Machine Files Using Disk Attachment	14/320,510	Acronis International GmbH
Agentless File Backup Of A Virtual Machine	14/320,526	Acronis International GmbH
Continuous replication of a machine to point-in-time versions	14/320,540	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
Data Backup Parallelization	14/320,546	Acronis International GmbH
System and method to increase speed of file restore from archive by reorganizing restore order	14/457,767	Acronis International GmbH
Consistent Backup	14/869,338	Acronis International GmbH
Fast Incremental Backup Method and System	14/870,452	Acronis International GmbH
Backing Up Virtual Disk Changes	14/867,295	Acronis International GmbH
System and Method for Platform-Independent Migration and Replication of Computer Systems	14/502,060	Acronis International GmbH
Automated Disaster Recovery	14/867,705	Acronis International GmbH
Systems and Methods of Effective Cataloguing Using File System Metadata	14/870,977	Acronis International GmbH
Systems and Methods of Backup and Recovery of Journaling Systems	14/868,450	Acronis International GmbH
Method of Network-less Access to Applications During Backup of a Virtual Machine	14/869,073	Acronis International GmbH
Synchronized Change Tracking in Data Storage Volumes	14/502,959	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
Reducing data transmitted during backup	14/952,232	Acronis International GmbH
Backing up a virtual machine using a snapshot with memory	14/964,991	Acronis International GmbH
Systems and methods for backup of computing systems	14/984,159	Acronis International GmbH
Systems and methods for backup of computing systems	14/984,159	Acronis International GmbH
Data storage system for performance management	14/959,474	Acronis International GmbH
Proximity sensor responsive data access systems and methods	14/984,995	Acronis International GmbH
Preventive Hash Loading	14/971,360	Acronis International GmbH
Increasing Speed of Synchronization and Restore	14/986,164	Acronis International GmbH
Creation of consistent copies of application data	14/965,288	Acronis International GmbH
Changed Blocks Tracking Methods and Systems for Writable Snapshots	62/098,433	Acronis International GmbH
Method for sending secret messages between mobile devices	62/147620	Acronis International GmbH
Method for snapshotless backup of a virtual machine	15/143,686	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
Remote Private Key Security	15/165,303	Acronis International GmbH
System and method for optimization of operating system restore	15/176,556	Acronis International GmbH
Mathematical model and algorithms to ensure multi-level reliability of the redundant cloud data storage	15/201,688	Acronis International GmbH
Dynamic redundancy in storage systems	15/195,365	Acronis International GmbH
Event-based restore	15/204,294	Acronis International GmbH
Optimization of packetized data transmission in TCP-based networks	15/236,539	Acronis International GmbH
System and method for automatic data backup based on multi-factor environment monitoring	15/245,359	Acronis International GmbH
System and method for controlling access to OS resources	15/245,410	Acronis International GmbH
Backup of personalized user data	62/218349	Acronis International GmbH
Recovery Of Virtual Machine While Running The Virtual Machine From Backup Archive	62/216,617	Acronis International GmbH
System and method for prioritization of data backup and recovery traffic using QoS tagging	62/218,596	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
Backup of virtual machines from storage snapshot	14/948,747	Acronis International GmbH
Backup of user data with validity check	14/948,868	Acronis International GmbH
System and method for incrementally performing full data backup	14/987,128	Acronis International GmbH
System and method of using data blocks to optimize file storage	14/987,159	Acronis International GmbH
System and method of using performance-maintaining commands for generating a backup of unsupported file systems	14/987,868	Acronis International GmbH
Method for improving security of private communications	15/404,395	Acronis International GmbH
Comprehensive backup of modular mobile devices	62/278389	Acronis International GmbH
User behavioral avatar based on personalized backup	62/316633	Acronis International GmbH
System and method for synchronization of large amounts of data while maintaining control over access rights to such data	62/279,163	Acronis International GmbH
Parallel multicast restore from deduplicated storage	14/986,184	Acronis International GmbH
System and method of removing unused regions of a data file	14/988,923	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
Optimized lock detection in a change block tracker	14/985211	Acronis International GmbH
Application-consistent snapshotless backup of virtual machines using volume tracking	14/979032	Acronis International GmbH
System and method for restoration of MS Exchange server mail	14/969114	Acronis International GmbH
The method of data allocation to increase the reliability of storage	15/079,303	Acronis International GmbH
Virtual restore using a boot from cloud with ability of next applying of this to physical machine	15/086,356	Acronis International GmbH
System and method for agentless backup of virtual machines	15/131,872	Acronis International GmbH
System and method for fast parallel data processing in distributed storage systems	15/086,891	Acronis International GmbH
System and method for data protection during full data backup	15/084,815	Acronis International GmbH
System and method for data backup using unmanned aerial vehicle	15/464,449	Acronis International GmbH
Data center for disaster recovery	62/316,668	Acronis International GmbH
Geo-location-based mobile user authentication	62/316705	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
System and method of validating data for incremental format of backup archive	15/137,407	Acronis International GmbH
System and method for incrementally performing full data backup	15/183,014	Acronis International GmbH
System and method for data deduplication using log-structured merge trees	62/351,388	Acronis International GmbH
File authenticity proof using blockchain technology	62/405,408	Acronis International GmbH
System and Method for File Time-Stamping Using Blockchain	62/334,071	Acronis International GmbH
System and method for verifying data integrity using a blockchain network	15/215,775	Acronis International GmbH
System and method for managing services and licenses using a blockchain network	15/392,728	Acronis International GmbH
Methods of preserving and protecting user data from modification or loss due to malware	62/352,597	Acronis International GmbH
System and method for video authentication using watermarks	62/414,171	Acronis International GmbH
System and method for dynamic online backup optimization	62/360,681	Acronis International GmbH
Anonymous cloud data storage and anonymizing non-anonymous storage	15/047,219	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
System and method for data storage using log-structured merge trees	15/297,774	Acronis International GmbH
System and method for backing up social network data	62/383,686	Acronis International GmbH
System and method for data backup using data binning and deduplication	62/412,910	Acronis International GmbH
System and method for verification of data transferred among several data storages	62/412,995	Acronis International GmbH
Wearable human interface devices and systems	62/459,705	Acronis International GmbH
Proved authenticity of restored files and ransomware prevention	62/445,421	Acronis International GmbH
System and method for support of integrity of data storage with erasure coding	62/452,528	Acronis International GmbH
System and method of using encryption algorithms in p2p encryption mode to restore integrity of data	15/429,269	Acronis International GmbH
Ransomware protection and data restoration systems and methods	62/463,304	Acronis International GmbH
System and method for efficient backup on common applications	62/458,089	Acronis International GmbH
System and method for automatic software installation and configuration	62/459,219	Acronis International GmbH

TITLE	APPLICATION NUMBER	OWNER
System and method for data classification during file backup	62/471,429	Acronis International GmbH

Patent Licenses: