

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Atrato, Inc.	11/29/2010
RECEIVING PARTY DATA	
Name:	Assurance Software and Hardware Solutions, LLC
Street Address:	331 South 104th Street
Internal Address:	Suite 150
City:	Louisville
State/Country:	COLORADO
Postal Code:	80027
PROPERTY NUMBERS Total: 15	
Property Type	Number
Patent Number:	7701700
Patent Number:	7630196
Patent Number:	7505264
Patent Number:	7626805
Patent Number:	7319586
Patent Number:	7167359
Patent Number:	7349205
Patent Number:	7359188
Patent Number:	7391609
Patent Number:	7447015
Patent Number:	7280353
Application Number:	12364271
Application Number:	12395529
Application Number:	12395509

501470879

PATENT
REEL: 025975 FRAME: 0379

OP \$600.00 7701700

Application Number:

12763195

CORRESPONDENCE DATA

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Total Attachments: 3

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ASSIGNMENT OF PATENTS

The undersigned, ATRATO, INC., a Delaware corporation (the "Patentee"), owns the United States Patents and Patent Applications listed on Exhibit A attached hereto and incorporated herein by this reference (the "Patents"). For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Patentee does hereby sell, assign and transfer to Assurance Software and Hardware Solutions, LLC, a Delaware limited liability company, Patentee's entire right, title and interest in and to the Patents for the full end of the term for which these Patents have been or will be granted.

Executed this 29 day of November, 2010, at Louisville, Colorado.

"Patentee"

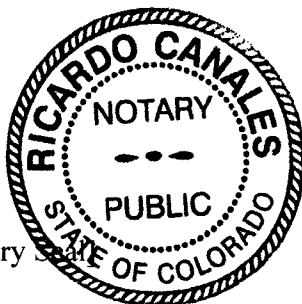
ATRATO, INC.,
a Delaware corporation

By: [Signature]
Steve Visconti, President

ACKNOWLEDGEMENT OF NOTARY PUBLIC

State of Colorado)
) ss.
County of Boulder)

The foregoing instrument was acknowledged before me this Nov. 29th, 2010, by Steve Visconti, President of Atrato, Inc., a Delaware corporation, on behalf of the corporation.



[Notary Seal]

[Signature]
Notary's Official Signature
Sept. 29th 2013
(Commission Expiration Date)

Exhibit A
Patents and Patent Applications

(including all non-provisional applications, divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for in any country or countries foreign to the United States, and all Letters Patent which may be granted in any country or countries foreign to the United States and all extensions, renewals and reissues thereof)

<i>PATENTS - Title</i>	<i>Application #</i>	<i>Date Filed</i>	<i>Patent #</i>	<i>Date Issued</i>
DISK-DRIVE SYSTEMS WITH A VARYING NUMBER OF SPARES FOR DIFFERENT EXPECTED LIFETIMES AND METHOD	11/537,610	9/30/2006	7,701,700	4/20/2010
DISK-DRIVE ENCLOSURE HAVING NON-PARALLEL DRIVES TO REDUCE VIBRATION AND METHOD	11/537,608	9/30/2006	7,630,196	12/8/2009
DISK-DRIVE ENCLOSURE HAVING PAIR-WISE COUNTER-ROTATING DRIVES TO REDUCE VIBRATION AND METHOD	11/537,614	9/30/2006	7,505,264	3/17/2009
DISK-DRIVE SYSTEM SUPPORTING MASSIVELY PARALLEL VIDEO STREAMS AND METHOD	11/537,607	9/30/2006	7,626,805	12/1/2009
DISK-DRIVE ENCLOSURE HAVING DRIVES IN A HERRINGBONE PATTERN TO IMPROVE AIRFLOW AND METHOD	11/537,598	9/29/2006	7,319,586	1/15/2008
SYSTEM AND METHOD FOR MASS STORAGE USING MULTIPLE HARD DISK-DRIVE ENCLOSURE	11/027,777	12/29/2004	7,167,359	1/23/2007
DISK-DRIVE ENCLOSURE HAVING FRONT-BACK ROWS OF SUBSTANTIALLY PARALLEL DRIVES AND METHOD	11/537,600	9/29/2006	7,349,205	3/25/2008

<i>PATENTS - Title</i>	<i>Application #</i>	<i>Date Filed</i>	<i>Patent #</i>	<i>Date Issued</i>
DISK-DRIVE ENCLOSURE HAVING ROWS OF ALTERNATELY FACING PARALLEL DRIVES TO REDUCE VIBRATION AND METHOD	11/537,605	9/29/2006	7,359,188	4/15/2008
DISK-DRIVE ENCLOSURE HAVING Laterally OFFSET PARALLEL DRIVES TO REDUCE VIBRATION AND METHOD	11/537,606	9/29/2006	7,391,609	6/24/2008
DISK-DRIVE SYSTEM HAVING MULTIPLE POWER SUPPLIES AND MIRRORING AND METHOD	11/537,603	9/29/2006	7,447,015	11/4/2008
SYSTEM AND METHOD FOR REDUCED VIBRATION INTERACTION IN A MULTIPLE-HARD-DISK-DRIVE ENCLOSURE	11/026,553	12/29/2004	7,280,353	10/9/2007
<i>PATENT APPLICATIONS - Title</i>				
SYSTEM AND METHODS FOR BLOCK-LEVEL MANAGEMENT OF TIERED STORAGE	12/364,271	2/2/2009		
SYSTEM AND METHODS FOR DETECTION, ISOLATION, AND RECOVERY OF FAULTS IN A FAIL-IN-PLACE STORAGE ARRAY	12/395,529	2/27/2009		
STORAGE SYSTEM FRONT END	12/395,509	2/27/2009		
DISK-DRIVE SYSTEMS THAT MOVES DATA TO SPARE DRIVES FROM DRIVES ABOUT TO FAIL AND METHOD	12/763,195	4/19/2010		

