

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Exegy Incorporated	05/09/2013

RECEIVING PARTY DATA

Name:	IP Reservoir, LLC
Street Address:	349 Marshall Avenue, Suite 100
City:	St. Louis
State/Country:	MISSOURI
Postal Code:	63119

PROPERTY NUMBERS Total: 52

Property Type	Number
Patent Number:	7636703
PCT Number:	US0767319
Patent Number:	7702629
Patent Number:	7945528
PCT Number:	US0645653
Application Number:	60785821
Patent Number:	8379841
Application Number:	13759227
PCT Number:	US0764712
Application Number:	60814796
Patent Number:	7921046
Patent Number:	8407122
Application Number:	13076929
Application Number:	13076951
Application Number:	13076968

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Application Number:	13076982
Application Number:	13077036
Application Number:	13077224
Application Number:	13077294
PCT Number:	US0866929
Patent Number:	7840482
Application Number:	12912354
PCT Number:	US0865955
Application Number:	60865629
Patent Number:	7660793
Patent Number:	8156101
Application Number:	13442442
PCT Number:	US0784466
Patent Number:	8326819
Application Number:	13686338
PCT Number:	US0784464
Application Number:	60969384
Application Number:	12201259
PCT Number:	US0874862
Application Number:	12013302
PCT Number:	US0930623
Patent Number:	8374986
Application Number:	13759430
PCT Number:	US0943759
Application Number:	61122673
PCT Number:	US0967935
Application Number:	61421545
Application Number:	13316332
PCT Number:	US1164629
Application Number:	61570670
Application Number:	13440118
PCT Number:	US1269142
Application Number:	61616181
Application Number:	10550326
Application Number:	13165155

US0760835

Patent Number:

7954114

CORRESPONDENCE DATA

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Signature:

/Benjamin L. Volk, Jr./

Date:

07/01/2013

Total Attachments: 7

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PATENT

ASSIGNMENT

WHEREAS, **Exegy Incorporated**, a corporation of the State of Delaware, having its principal place of business at 349 Marshall Ave., Suite 100, St. Louis, MO 63119 (hereinafter "Exegy"), owns the patents and patent applications identified on Schedule A attached hereto and the inventions disclosed therein (hereinafter, collectively, the "Patent Rights"); and

WHEREAS, **IP Reservoir, LLC**, a limited liability company of the State of Delaware, having its principal place of business at 349 Marshall Ave., Suite 100, St. Louis, MO 63119 (hereinafter "IPR"), is desirous of acquiring the entire right, title and interest in and to said Patent Rights.

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) to it in hand paid, and other good and valuable consideration, the receipt and adequacy of all of which are hereby acknowledged, Exegy has sold, assigned and transferred and does hereby sell, assign and transfer unto IPR, its successors or assigns, its entire right, title and interest in and to said Patent Rights and improvements as the same are disclosed in said Patent Rights, in and to any and all letters patent and applications filed therefor, including provisionals, non-provisionals, divisionals, continuations, reissues, reexaminations and extensions to be obtained therefor in the United States and all foreign countries, and the right to sue and collect damages for any past infringement of the Patent Rights; and it further agrees to cooperate with IPR in the obtaining and sustaining of any and all such letters patent of the Patent Rights as the assignee may desire to apply for.

The Commissioner of Patents or other proper official is hereby authorized and requested to issue said Patent Rights to IPR in accordance with this Assignment.

Exegy hereby authorizes and requests the attorneys of record in said Patent Rights to insert in this Assignment the serial number, filing date, and date of execution of any items of said Patent Rights for the purposes of recording this Assignment.

For said considerations, Exegy hereby agrees, upon the request of IPR, to execute any provisional, non-provisional, divisional, continuation, continuation-in-part or substitute application for said Patent Rights, and any oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon said Patent Rights, and, in the event of any application or letters patent of the Patent Rights becoming involved in an interference, to cooperate to the best of its ability in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. Exegy agrees to perform, upon request, any affirmative acts to obtain letters patent from the Patent Rights and vest in IPR all rights therein, whereby said Patent Rights will be held and enjoyed by IPR, to the full end of the term for which said Patent Rights may be granted as fully and entirely as the same would have been held and enjoyed by Exegy if this Assignment had not been made.

And for said consideration, Exegy hereby assigns to IPR the entire right, title and interest in said Patent Rights for all foreign countries, including all priority rights, and agrees to execute, at the request of IPR, all documents in connection with any application for foreign letters patent within the Patent Rights.

SCHEDULE A

Jurisdiction	Patent No.	Application No.	Title	Status	TC Reference Number
USA	7,936,793	11,081,214	Method and Apparatus for Approximate Pattern Matching	Issued	44826-99322
PCT	N/A	PCT/US2007/067319	Method and Apparatus for Approximate Pattern Matching	Expired	44826-68356
CA	N/A	2630371	Method and Apparatus for Approximate Pattern Matching	Pending	44826-79499
JP	N/A	07761249.1	Method and Apparatus for Approximate Pattern Matching	Pending	44826-79301
EP	N/A	11176040.1	Method and Apparatus for Approximate Pattern Matching	Pending	44826-97353
JP	N/A	2009-509252	Method and Apparatus for Approximate Pattern Matching	Allowed	44826-79302
USA	7,702,629	117293,619	Method and Device for High Performance Regular Expression Pattern Matching	Issued	44826-39149
USA	7,945,529	127713,380	Method and Device for High Performance Regular Expression Pattern Matching	Issued	44826-88116
PCT	N/A	PCT/US2006/048563	Method and Device for High Performance Regular Expression Pattern Matching	Expired	44826-24930
AU	2006320643	2006320643	Method and Device for High Performance Regular Expression Pattern Matching	Issued	44826-75332
CA	N/A	2029618	Method and Device for High Performance Regular Expression Pattern Matching	Allowed	44826-75333
EP	N/A	06838554.1	Method and Device for High Performance Regular Expression Pattern Matching	Pending	44826-75334
JP	N/A	2008-543412	Method and Device for High Performance Regular Expression Pattern Matching	Allowed	44826-75335
USA	N/A	60/785,821	Method and System for High Throughput Blockwise Independent Encryption/Decryption	Expired	44826-67955
USA	8,179,841	11/690,034	Method and System for High Throughput Blockwise Independent Encryption/Decryption	Issued	44826-67649
USA	N/A	13/759,227	Method and System for High Throughput Blockwise Independent Encryption/Decryption	Pending	44826-111926
PCT	N/A	PCT/US2007/064712	Method and System for High Throughput Blockwise Independent Encryption/Decryption	Expired	44826-67650
USA	N/A	60/814,796	High Speed Processing of Financial Information Using FPGA Devices	Expired	44826-62207
USA	7,921,948	11/765,308	High Speed Processing of Financial Information Using FPGA Devices	Issued	44826-69254
USA	8,407,122	13/070,906	High Speed Processing of Financial Information Using FPGA Devices	Issued	44826-95688
USA	N/A	13/070,929	High Speed Processing of Financial Information Using FPGA Devices	Pending	44826-95689
USA	N/A	13/070,951	High Speed Processing of Financial Information Using FPGA Devices	Pending	44826-95686
USA	N/A	13/070,968	High Speed Processing of Financial Information Using FPGA Devices	Pending	44826-94010

USA	N/A	13/076,982	High Speed Processing of Financial Information Using FPGA Devices	Pending	44226-95685
USA	N/A	13/077,036	High Speed Processing of Financial Information Using FPGA Devices	Allowed	44226-94011
USA	N/A	13/077,204	High Speed Processing of Financial Information Using FPGA Devices	Allowed	44226-95687
USA	N/A	13/077,204	High Speed Processing of Financial Information Using FPGA Devices	Pending	44226-95684
PCT	N/A	PCT/US2008/066929	High Speed Processing of Financial Information Using FPGA Devices	Expired	44226-75562
CA	N/A	2091229	High Speed Processing of Financial Information Using FPGA Devices	Pending	44226-86682
EP	N/A	08771027.3	High Speed Processing of Financial Information Using FPGA Devices	Pending	44226-86685
JP	N/A	2010-513245	High Speed Processing of Financial Information Using FPGA Devices	Pending	44226-86684
USA	7,840,462	11/760,211	Method and System for High Speed Options Pricing	Issued	44226-64381
USA	N/A	12/912,154	Method and System for High Speed Options Pricing	Pending	44226-92186
PCT	N/A	PCT/US2008/065955	Method and System for High Speed Options Pricing	Expired	44226-76310
CA	N/A	2698502	Method and System for High Speed Options Pricing	Pending	44226-86247
EP	N/A	08756714.3	Method and System for High Speed Options Pricing	Pending	44226-86246
JP	N/A	2010-511331	Method and System for High Speed Options Pricing	Pending	44226-86246
USA	N/A	007865,629	Method and System for High Performance Processing of Structured and Unstructured Enterprise Data Using FPGA Devices	Expired	44226-64582
USA	7,660,793	11/938,709	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Issued	44226-72530
USA	8,136,101	12/640,891	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Issued	44226-89209
USA	N/A	13/442,442	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Pending	44226-102539
PCT	N/A	PCT/US2007/084466	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Expired	44226-72534
EP	N/A	07945086.5	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Pending	44226-82941
JP	N/A	2008-356536	Method and System for High Performance Integration, Processing and Searching of Structured and Unstructured Data Using Coprocessors	Pending	44226-82942
USA	8,320,519	11/938,732	Method and System for High Performance Data Metatagging and Data Indexing Using Coprocessors	Issued	44226-65792
USA	N/A	13/680,339	Method and System for High Performance Pattern Indexing	Pending	44226-108515
PCT	N/A	PCT/US2007/084464	Method and System for High Performance Data Metatagging and Data Indexing Using Coprocessors	Expired	44226-72692

EP	N/A	07845164.0	Method and System for High Performance Data Metadata and Data Indexing Using Coprocessors	Pending	44926-82943
JP	N/A	2005-536935	Method and System for High Performance Data Metadata and Data Indexing Using Coprocessors	Pending	44926-82944
USA	N/A	60/907,384	Method and Apparatus for Hardware-Accelerated Encryption with Integrated Key Management	Expired	44926-70268
USA	N/A	12/201,259	Method and Apparatus for Hardware-Accelerated Encryption/Decryption	Pending	44926-77928
PCT	N/A	PCT/US2008/074862	Method and Apparatus for Hardware-Accelerated Encryption/Decryption	Expired	44926-78092
EP	N/A	08798992.7	Method and Apparatus for Hardware-Accelerated Encryption/Decryption	Pending	44926-87661
USA	N/A	12/111,912	Method and System for Low Latency Basket Calculation	Pending	44926-72354
PCT	EP	PCT/US2109/030623	Method and System for Low Latency Basket Calculation	Expired	44926-80028
CA	EP	2797044	Method and System for Low Latency Basket Calculation	Pending	44926-90086
EP	EP	09700533.9	Method and System for Low Latency Basket Calculation	Pending	44926-90087
JP	EP	2010-542380	Method and System for Low Latency Basket Calculation	Pending	44926-90089
USA	8,374,986	12/121,473	Method and System for Accelerated Stream Processing	Issued	44926-72736
USA	N/A	13/759,430	Method and Apparatus for Accelerated Data Quality Checking	Pending	44926-110621
PCT	N/A	PCT/US2009/041759	Method and System for Accelerated Stream Processing	Expired	44926-82596
UK	N/A	1019313.4	Method and System for Accelerated Stream Processing	Allowed	44926-91508
USA	N/A	11/122,675	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Expired	44926-89492
PCT	N/A	PCT/US2009/067955	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Expired	44926-89878
USA	N/A	13/132,406	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-96819
USA	N/A	13/154,804	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-97231
USA	N/A	13/154,824	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-97232
CA	N/A	2744746	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-96816
EP	N/A	09832816.0	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-96815
JP	N/A	2011-240927	Method and Apparatus for High Speed Processing of Financial Market Depth Data	Pending	44926-96817
USA	N/A	81421,240	Method and Apparatus for Managing Orders in Financial Markets	Expired	44926-24012

USA	N/A	13/516,332	Method and Apparatus for Managing Orders in Financial Markets	Pending	44826-104986
PCT	N/A	PCT/US2011/094629	Method and Apparatus for Managing Orders in Financial Markets	Pending	44826-104988
USA	N/A	61/576,670	Method and Apparatus for Low Latency Data Distribution	Expired	44826-93272
USA	N/A	13/440,118	Method and Apparatus for Low Latency Data Distribution	Pending	44826-93273
PCT	N/A	PCT/US2012/69142	Method and Apparatus for Low Latency Data Distribution	Pending	44826-108589
USA	N/A	61/616,181	Offload Processing of Data Packets Containing Financial Information	Expired	44826-102934
USA	N/A	13/833,898	Offload Processing of Data Packets Containing Financial Information	Pending	44826-112414
USA	N/A	61/790,254	Offload Processing of Data Packets	Pending	44826-112496
PCT	N/A	PCT/US2012/33889	Offload Processing of Data Packets	Pending	44826-112537
USA	N/A	13/550,326	Intelligent Data Storage and Processing Using FPGA Devices	Abandoned	33047-57363
USA	N/A	13/165,153	Intelligent Data Storage and Processing Using FPGA Devices	Allowed	33047-97426
PCT	N/A	PCT/US2004/014021	Intelligent Data Storage and Processing Using FPGA Devices	Expired	33047-48386
AU	N/A	2004273496	Intelligent Data Storage and Processing Using FPGA Devices	Abandoned	33047-57368
CA	N/A	2522862	Intelligent Data Storage and Processing Using FPGA Devices	Abandoned	33047-57368
CA	N/A	2753064	Intelligent Data Storage and Processing Using FPGA Devices	Pending	33047-100065
EP	N/A	04752043.3	Intelligent Data Storage and Processing Using FPGA Devices	Pending	33047-57367
EP	N/A	12165819.9	Intelligent Data Storage and Processing Using FPGA Devices	Pending	33047-103889
JP	N/A	2406-514919	Intelligent Data Storage and Processing Using FPGA Devices	Abandoned	33047-57386
USA	7/354,114	11/339,892	Firmware Socket Module for FPGA-Based Pipeline Processing	Issued	44826-59523
PCT	N/A	PCT/US2007/080835	Firmware Socket Module for FPGA-Based Pipeline Processing	Expired	44826-65332
AU	N/A	2607208128	Firmware Socket Module for FPGA-Based Pipeline Processing	Abandoned	44826-75663
CA	N/A	2649140	Firmware Socket Module for FPGA-Based Pipeline Processing	Pending	44826-75664
EP	1,394,274 B1	07762449.2	Firmware Socket Module for FPGA-Based Pipeline Processing †	Issued	44826-75665
JP	N/A	2008-352578	Firmware Socket Module for FPGA-Based Pipeline Processing	Pending	44826-75666

†Validated in DE, FR, GB