Exhibit 16

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Oblon Spivak

ATTORNEYS AT LAW

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

RE: Control No.: 90/010,856
Inventor(s): Richard Michael NEMES
Filing Date: February 9, 2010
For: METHODS AND APPARATUS FOR INFORMATION STORAGE
AND RETRIEVAL USING A HASHING TECHNIQUE WITH
EXTERNAL CHAINING AND ON-THE-FLY REMOVAL OF
EXPIRED DATA
Group Art Unit: 3992
Examiner: A. J. Kosowski

Docket No.: 358121US91RX

SIR:

Attached hereto for filing are the following papers:

IDS Transmittal PTO Form 1449

Cited References (50) - 1 Box Submission under 37 C.F.R. 1.555/1.565 in Ex Parte Reexamination of U.S. Patent No. 5,893,120 w/Attachments (3) - 1 Box Certificate of Service

Credit card payment is being made online (if electronically filed), or is attached hereto (if paper filed), in the amount of <u>\$0.00</u> to cover any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, please charge or credit the difference to Deposit Account No. <u>15-0030</u>.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

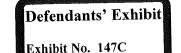
Scott A. McKeown

Registration No. 42,866

Customer Number

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Case No. 6:09-cv-00269-LED

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YAHOO00525252



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Richard Michael NEMES CONTROL 90/010.856 GAU: 3992 NO: FILED: February 9, 2010 EXAMINER: A. J. KOSOWSKI FOR: METHODS AND APPARATUS FOR INFORMATION STORAGE AND RETRIEVAL USING A HASHING TECHNIQUE WITH EXTERNAL CHAINING AND ON-THE-FLY REMOVAL OF EXPIRED DATA

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

64811 U.S. PTO

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the reference(s) listed on the attached form PTO-1449 and/or accompanying documents from a corresponding foreign application. Copies of the listed reference(s) are attached, where required, as are either statements of relevancy or any readily available partial or full English translations of pertinent portions of any non-English language reference(s).
- □ Credit card payment is being made online (if electronically filed), or is attached hereto (if paper filed), in the amount required under 37 CFR §1.17(p).

RELATED CASES

- □ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- Credit card payment is being made online (if electronically filed), or is attached hereto (if paper filed), in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- □ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

Scott A. McKeown Registration No. 42,866

Customer Number 22850 Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 02/10)

4 26/24/10 ATTY DOCKET NO. CONTROL NO. Form PTO 1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 358121US91RX 90/010,856 INVENTOR LIST OF REFERENCES CITED BY APPLICANT **Richard Michael NEMES** FILING DATE GROUP 3992 February 9, 2010 **U.S. PATENT DOCUMENTS** EXAMINER DOCUMENT SUB FILING DATE DATE NAME CLASS INITIAL NUMBER CLASS IF APPROPRIATE AA 5,701,432 12/23/1997 Wong, et al. AB 4,695,949 09/22/1987 Thatte, et al. AC 4,989,132 01/29/1991 Mellender, et al. AD 4,996,663 02/26/1991 Nemes AE 5,043,885 08/27/1991 Robinson AF 5,765,174 06/09/1998 Bishop AG 5,778,430 07/07/1998 Ish, et al. 11/23/1999 AH 5,991,775 Beardsley, et al. AI 6,119,214 09/12/2000 Dirks AJ 5,881,241 03/09/1999 Corbin . AK 6,243,667 06/05/2001 Kerr, et al. AL AM AN FOREIGN PATENT DOCUMENTS DOCUMENT TRANSLATION DATE COUNTRY NUMBER YES NO AO AP AQ AR AS AT ΑU AV OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) Johnson, T. et al.; A Distributed, Replicated, Data-Balanced Search Structure; Pgs. 1-27 AW Appel, A. W., et al.; Hash-consing Garbage Collection; Pgs. 1-18; 02/1993 AX Bays, C.; Some Techniques for Structuring Chained Hash Tables; The Computer Journal; Vol. 16.; No. 2; Pgs. 126-131; AY 04/1972 Bastani, F. B., et al.; Concurrent Maintenance of Data Structures in a AZ Distributed Environment; The Computer Journal; Vol. 31; No. 2; 1988; Additional References sheet(s) attached Pgs. 165-174 Examiner **Date Considered** *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

64811 U.S. PTO

SHEET 2 OF 4

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE		ATTY DOCKET NO.	CONTROL NO.	
(modinod)		PATENT AND TRADEMARK OFFICE	358121US91RX	90/010,856	
LIST OF REFERENCES CITED BY APPLICANT			INVENTOR		
		ENCES CITED BY APPLICANT	Richard Michael NEMES		
			FILING DATE	GROUP	
			February 9, 2010	3992	
		OTHER REFERENCES (Including Author, Title, Date, Pertinent F	Pages, etc.)	
F	A AA	Kruse, R. L., et al.; CD-ROM Prepare 717 Pgs.	ed by Mailhot, P.A.; Prentice Hall - Data Str	uctures and Program Design in C++; 2000;	
	аав	Kirsch, A., et al; Hash-Based Technik	ques for High-Speed Packet Processing; P	gs. 1-40	
F	AAC	Seligmann, J., et al.; Incremental Ma	ture Garbage Collection Using the Train Al	gorithm; 1995; Pgs. 235-252	
F	AAD	Bohannon, P., et al.; The Architectur	e of the Dali Main-Memory Storage Manag	er; 1997; Pgs. 115-151	
F	AAE	Van Wyk, C. J., et al.; Algorithmica -	The Complexity of Hashing with Lazy Dele	tion; 1986; Pgs. 17-29	
ŀ	AAF	Szymanski, T. G., et al.; Special Fea	ture: Goalie: A Space Efficient System for V	/LSI Artwork Analysis; 1985; Pgs. 64-72	
A	∿AG	van Rijsbergen, C. J.; Department of Computing Science - University of Glasgow; Information Retrieval; Pgs. 1-147			
F	∿АН	Jannick, J.; Sigmond Record, Vol. 24	I, No. 1; Implementing Deletion in B+-Trees	; 03/1995; Pgs. 33-38	
	ΑΑΙ	Rusling; D. A.; The Linux Kernel; Ver	rsion 0.8-3; Pgs. 1-176		
/	AAJ	Chandranmenon, G. P.; et al.; IEEE/ Processing; Pgs. 141-152; 1996	ACM Transactions on Networking, Vol. 4, N	Io. 2; Trading Packet Headers for Packet	
F	аак	Ramakrishna, M. V.; Hashing in Practice, Analysis of Hashing and Universal Hashing; 1988; Pgs. 191-199			
F	AAL	Varghese, G., et al.; Hashed and Hierarchical Timing Wheels: Data Structures for the Efficient Implementation of a Timer Facility; 1987; Pgs. 25-38 Waldvogel, M., et al.; Scalable High Speed IP Routing Lookups; 1997; Pgs. 25-36			
A	аам				
A	AAN	 Fagin, R., et al.; ACM Transactions on Database Systems, Vol. 4, No. 3; Extendible Hashing - A Fast Access Method for Dynamic Files; 09/1979; Pgs. 315-344 Schmidt, J. P., et al.; On Aspects of Universality and Performance for Closed Hashing; 1989; Pgs. 355-366 Larson, P. A; Algorithms and Data Structures; Dynamic Hash Tables, Volume 31, No. 4; 04/1988; Pgs. 446-457 			
A	440				
A	∿AP				
م	AAQ	Chiang, K. W., et al.; Time Efficient V	/LSI Artwork Analysis Algorithms in GOALI	E2; 1988; Pgs. 471-476	
Examiner				Date Considered	
			t citation is in conformance with MPEP 609	Draw line through citation if not in	
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Form PTO 1449	U.S. DEPARTMENT OF COMMERCE	ATTY DOCKET NO.	CONTROL NO.			
(Modified)	PATENT AND TRADEMARK OFFICE	358121US91RX	90/010,856			
		INVENTOR				
LIST OF REFE	RENCES CITED BY APPLICANT	Richard Michael NEMES				
		FILING DATE	GROUP			
		February 9, 2010	3992			
	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pa	ages, etc.)			
		rveys, Vol. 7, No. 1; Hash Table Methods; 0	03/1975; Pgs. 5-19			
AAA						
ААВ	Deutsch, L. P., et al.; Communications of the ACM, Vol. 19, No. 9; An Efficient, Incremental, Automatic Garbage Collector; 09/1976; Pgs. 522-526					
AAC	Graham, S. L., et al.; Communications of the ACM, Vol. 21, No. 7; Pseudochaining in Hash Tables; 07/1978; Pgs. 554-					
AAD	Yao, A.; Journal of the Association for Computing Machinery, Vol. 28, No. 3; Should Tables be Sorted?; 07/1981; Pgs. 615- 628					
AAE		Karger, D., et al; Consistent Hashing and Random Trees: Distributed Caching Protocols for Relieving Hot Spots on the World Wide Web; 1997; Pgs. 654-663				
AAF	AG Albers, S., et al.; Self-Organizing Data Structures; Pgs. 1-39 AG Seltzer, M.; A New Hashing Package for UNIX; Winter '91; Pgs. 173-184 AH Tamassia, R.; ACM Computing Surveys, Vol. 28, No. 1; Data Structures; 03/1996; Pgs. 23-26					
AAG						
ААН						
AAI						
	Morrison J. A., et al: SIAM J. Comp.	Vol. 16. No. 6 - A Queuing Analysis of Has	shing with Lazy Deletion: 12/1987; Pgs.			
AAJ	AAJ Morrison, J. A., et al; SIAM J. Comp., Vol. 16, No. 6 - A Queuing Analysis of Hashing with Lazy Deletion; 12/1987; F					
AAK	Dietzfelbinger, M., et al.; Dynamic Perfect Hashing: Upper and Lower Bounds, Revised Version; 01/07/1990; Pgs. 1-33 AAK					
AAL	Kenyon-Mathieu, C.M., et al.; General Methods for the Analysis of the Maximum Size of Dynamic Data Structures; Pgs. 473 AAL 487					
ААМ	Mathieu, C. M., et al.; Rapports de Recherche N°851, Maximum Queue Size and Hashing with Lazy Deletion; 06/1988; M 23 Pgs.					
AAN		Aldous, D., et al.; SIAM J. Comp., Vol. 21, No. 4, Maximum Size of a Dynamic Data Structure: Hashing with Lazy Deletion Revisited*; 08/1992; Pgs. 713-732				
ААР	Printout - Ethernet Address Resolutio	Printout - Ethernet Address Resolution Protocol; 7 Pgs.				
AAQ		- The Regents of University of California; Copyright (c) 1995 - Paul Henning Kamp; 6				
Examiner	†	c	Date Considered			
		t citation is in conformance with MPEP 609; with next communication to applicant.	Draw line through citation if not in			

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Form PTO 1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO.	CONTROL NO.			
(Modified)		358121US91RX	90/010,856			
		APPLICANT				
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		FILING DATE	GROUP			
		February 9, 2010	3992			
	OTHER REFERENCES (Including Author, Title, Date, Pertinent Page	etc.)			
AA	Printout - Copyright (c) 1994 by Florian La Roche; Pgs. 1-20					
AA		e Issues in Full-Text Information Retrieval - Te	chnical Report 95-81; 10/1995; 179 Pgs.			
~~	Costello, A. M., et al.; Redesigning the BSD Callout and Timer Facilities; 11/02/1995; 12 Pgs.					
AA	Foster, J. M Senior Research Fellow, Dept. of Engineering, Aberdeen University; List Processing; 1967; 54 Pgs.					
AA		Printout - Wavelan Pcmcia driver, Jean II-HPLB '96; Pgs. 1-78				
AA		Van Wyk, C. J.; Data Structures & C Programs; 1988; 30 Pgs.				
AA	Sessions, R., Reusable Data Structures For C; 1989; 33 Pgs.					
AA	Frakes, W. B., et al.; Information Retrieval Data Structures & Algorithms, Chapter 13; 1992; Pgs. 293-305					
A/	Weiss, M. A.; Data Structures and Algorithm Analysis in C; 23 Pgs.					
AA	Keshav, S.; On the Efficient Implementation of Fair Queuing; Pgs. 1-20					
AA	Kruse, R. L.; Data Structures and Program Design, 2 nd Edition, Chapter 4; 1987, 1984; Pgs. 104-155					
AA	Varghese, G., et al.; Hashed and Hierarchical Timing and Wheels: Data Structures for the Efficient Implementation of a Timer Facility; 1987; Pgs. 25-38					
AA	Xu, J.; IEEE Transactions on Computers, Vol. 51, No. 9; Cost-Effective Flow Table Designs for High-Speed Routers: Architecture and Performance Evaluation; 09/2002; Pgs. 1089-1099					
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64811 USPECKET NO: 358121US91RX

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE REEXAMINATION OF : U.S. PATENT NO. 5,893,120 INVENTOR: : EXAMINER: A. J. KOSOWSKI RICHARD MICHAEL NEMES CONTROL NO: 90/010,856 : FILED: FEBRUARY 9, 2010 : GROUP ART UNIT: 3992 FOR: METHODS AND APPARATUS FOR INFORMATION STORAGE AND RETRIEVAL USING A HASHING

RETRIEVAL USING A HASHING TECHNIQUE WITH EXTERNAL CHAINING AND ON-THE-FLY REMOVAL OF EXPIRED DATA

SUBMISSION UNDER 37 C.F.R § 1.555/1.565 IN EX PARTE REEXAMINATION OF U.S. PATENT NO. 5,893,120

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Attached are litigation materials corresponding to the patent at issue in this

reexamination, styled as Bedrock Computer Technologies, LLC v. Softlayer Technologies,

Inc., et al., Case No. 6:09-cv-269 LED (E.D. Tex., Tyler Division) and Red Hat, Inc. v.

Bedrock Computer Technologies, LLC, Case no. 6:09-cv-549-LED (E.D. Tex., Tyler

Division).

- Defendants' Amended Joint Invalidity Contentions and Production of Documents Pursuant to Patent Rules 3-3 and 3-4(b) w/Exhibits A-C5 dated 02/08/10.
- Defendants' Joint Invalidity Contentions and Production of Documents Pursuant to Patent Rules 3-3 and 3-4(b) w/Exhibits A-E dated 01/08/10.

Control No. 90/010,856 Submission under 37 C.F.R. §1.555/1.565 in *Ex Parte* Reexamination of U.S. Patent No. 5,893,120

• Plaintiff Red Hat, Inc.'s Invalidity Contentions and Production of Documents Pursuant to Patent Rules 3-3 and 3-4(b) w/Exhibits A-E dated 05/14/10.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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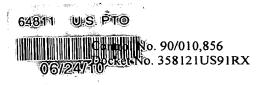
Scott A. McKeown Attorney of Record Registration No. 42,866

Customer Number

22850

Tel: (703) 413-3000 Fax: (703) 413 -2220 (OSMMN 07/09)

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CERTIFICATE OF SERVICE

I hereby certify that on June 24, 2010, copies of the foregoing PTO Cover Letter; IDS Transmittal; PTO Form 1449; Cited References (50) and Submission under 37 C.F.R. 1.555/1.565 in Ex Parte Reexamination of U.S. Patent No. 5,893,120 w/Attachments (3) on CD were served via First Class Mail to the following:

> Novak, Druce & Quigg LLP (NDQ Reexamination Group) 1000 Louisiana Street, 53rd Floor Houston, TX 77002

6-24-10 Dated:

-0 Scott A. McKeown