PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5170142

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
BMC SOFTWARE, INC.	10/02/2018
BLADELOGIC, INC.	10/02/2018

RECEIVING PARTY DATA

Name:	CREDIT SUISSE, AG, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT
Street Address:	11 MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10010

PROPERTY NUMBERS Total: 427

Property Type	Number
Patent Number:	6418443
Patent Number:	6502092
Patent Number:	6609122
Patent Number:	6895586
Patent Number:	6873989
Patent Number:	6901438
Patent Number:	7849162
Patent Number:	6954783
Patent Number:	7631102
Patent Number:	6691121
Patent Number:	6606631
Patent Number:	6668054
Patent Number:	6671368
Patent Number:	6678887
Patent Number:	6748379
Patent Number:	7849061
Patent Number:	6633884
Patent Number:	7350209
Patent Number:	6900822

Property Type	Number
Patent Number:	7480866
Patent Number:	8271457
Patent Number:	6944630
Patent Number:	7302449
Patent Number:	9037536
Patent Number:	6799189
Patent Number:	6606685
Patent Number:	6996576
Patent Number:	7490147
Patent Number:	7028301
Patent Number:	7299243
Patent Number:	7720876
Patent Number:	6983321
Patent Number:	7774458
Patent Number:	7930396
Patent Number:	7089245
Patent Number:	8819084
Patent Number:	9710569
Patent Number:	9792387
Patent Number:	7512635
Patent Number:	7170864
Patent Number:	7054891
Patent Number:	7506047
Patent Number:	7966398
Patent Number:	7461369
Patent Number:	7792948
Patent Number:	7024420
Patent Number:	6701320
Patent Number:	7877783
Patent Number:	7680833
Patent Number:	7496572
Patent Number:	7809762
Patent Number:	8239343
Patent Number:	7617073
Patent Number:	8050890
Patent Number:	7111003
Patent Number:	7076397
Patent Number:	8000932

Property Type	Number
Patent Number:	7020706
Patent Number:	7194728
Patent Number:	8151261
Patent Number:	7287068
Patent Number:	7996501
Patent Number:	6976133
Patent Number:	7133884
Patent Number:	7769718
Patent Number:	7555491
Patent Number:	7996515
Patent Number:	8560684
Patent Number:	7062683
Patent Number:	7742423
Patent Number:	7940691
Patent Number:	7076481
Patent Number:	7930291
Patent Number:	9449067
Patent Number:	7664790
Patent Number:	8645331
Patent Number:	6772411
Patent Number:	8818953
Patent Number:	7933927
Patent Number:	7448033
Patent Number:	7925635
Patent Number:	9137115
Patent Number:	8683032
Patent Number:	9967162
Patent Number:	7941506
Patent Number:	8612408
Patent Number:	8862631
Patent Number:	9239857
Patent Number:	7716353
Patent Number:	8443438
Patent Number:	9792348
Patent Number:	8887133
Patent Number:	9152413
Patent Number:	9122719
Patent Number:	7685167

Property Type	Number
Patent Number:	7730044
Patent Number:	8121992
Patent Number:	8555287
Patent Number:	9065783
Patent Number:	9405587
Patent Number:	8671076
Patent Number:	8306945
Patent Number:	7801865
Patent Number:	9779181
Patent Number:	7765346
Patent Number:	8117361
Patent Number:	8301755
Patent Number:	8051164
Patent Number:	7882213
Patent Number:	7689628
Patent Number:	7502844
Patent Number:	7783744
Patent Number:	6816898
Patent Number:	7131037
Patent Number:	8082275
Patent Number:	8463899
Patent Number:	8190579
Patent Number:	8646093
Patent Number:	8775456
Patent Number:	8464246
Patent Number:	8584117
Patent Number:	9251149
Patent Number:	8843449
Patent Number:	9753811
Patent Number:	8346752
Patent Number:	9177004
Patent Number:	8554750
Patent Number:	8082222
Patent Number:	8380749
Patent Number:	8473595
Patent Number:	8161001
Patent Number:	9037555
Patent Number:	8353013

Property Type	Number
Patent Number:	8171005
Patent Number:	8601489
Patent Number:	8352947
Patent Number:	9477518
Patent Number:	8352948
Patent Number:	9158572
Patent Number:	8682872
Patent Number:	8700566
Patent Number:	9128976
Patent Number:	8180728
Patent Number:	8473951
Patent Number:	8407531
Patent Number:	9122536
Patent Number:	9766935
Patent Number:	8589554
Patent Number:	9767181
Patent Number:	8380645
Patent Number:	8954563
Patent Number:	8875143
Patent Number:	9875135
Patent Number:	8983982
Patent Number:	9760589
Patent Number:	8743121
Patent Number:	8457928
Patent Number:	8478569
Patent Number:	9710938
Patent Number:	8832652
Patent Number:	9363252
Patent Number:	9467344
Patent Number:	8712979
Patent Number:	9323801
Patent Number:	9805322
Patent Number:	8677446
Patent Number:	8674992
Patent Number:	8402127
Patent Number:	9003378
Patent Number:	8321480
Patent Number:	8924398

Property Type	Number
Patent Number:	8539598
Patent Number:	8478888
Patent Number:	8645555
Patent Number:	8671194
Patent Number:	8589471
Patent Number:	9250918
Patent Number:	8667027
Patent Number:	9116968
Patent Number:	8595190
Patent Number:	8606924
Patent Number:	9195563
Patent Number:	8595264
Patent Number:	9356846
Patent Number:	9350627
Patent Number:	8610743
Patent Number:	8843633
Patent Number:	8745040
Patent Number:	8818994
Patent Number:	9412084
Patent Number:	8907988
Patent Number:	9773032
Patent Number:	9015188
Patent Number:	9652503
Patent Number:	8689241
Patent Number:	8782601
Patent Number:	8478771
Patent Number:	9104429
Patent Number:	8880479
Patent Number:	8706895
Patent Number:	8688982
Patent Number:	8694779
Patent Number:	6622142
Patent Number:	7016905
Patent Number:	7096227
Patent Number:	7337199
Patent Number:	7444338
Patent Number:	7685122
Patent Number:	9189134

Property Type	Number
Patent Number:	9300624
Patent Number:	9516109
Patent Number:	9223623
Patent Number:	9100320
Patent Number:	8818949
Patent Number:	9152659
Patent Number:	8959518
Patent Number:	8914768
Patent Number:	9557969
Patent Number:	9727315
Patent Number:	8447791
Patent Number:	8812539
Patent Number:	9251026
Patent Number:	8874704
Patent Number:	9805319
Patent Number:	9547672
Patent Number:	9048854
Patent Number:	9317327
Patent Number:	9645833
Patent Number:	9734237
Patent Number:	9135076
Patent Number:	9122495
Patent Number:	9218226
Patent Number:	9674293
Patent Number:	9208051
Patent Number:	9052980
Patent Number:	9946527
Patent Number:	9098322
Patent Number:	9519504
Patent Number:	9760396
Patent Number:	9218401
Patent Number:	9679059
Patent Number:	9003233
Patent Number:	9336067
Patent Number:	9213555
Patent Number:	9631934
Patent Number:	9534903
Patent Number:	9261372

Property Type	Number
Patent Number:	9158799
Patent Number:	9852165
Patent Number:	9710525
Patent Number:	9508051
Patent Number:	9613070
Patent Number:	9654473
Patent Number:	9098557
Patent Number:	9342351
Patent Number:	9819547
Patent Number:	8898237
Patent Number:	9396499
Patent Number:	9535674
Patent Number:	9946528
Patent Number:	9311381
Patent Number:	9819729
Patent Number:	9483299
Patent Number:	9983900
Patent Number:	9712516
Patent Number:	9342372
Patent Number:	9864798
Patent Number:	9680657
Patent Number:	9846600
Patent Number:	6418437
Patent Number:	7188108
Patent Number:	6560647
Patent Number:	6513065
Patent Number:	6691067
Patent Number:	6523035
Patent Number:	6901435
Patent Number:	6564174
Patent Number:	6643614
Patent Number:	7720805
Patent Number:	6393424
Patent Number:	6430608
Patent Number:	6381631
Patent Number:	6738970
Patent Number:	8447963
Patent Number:	9100283

Property Type	Number
Patent Number:	9794110
Patent Number:	8971535
Patent Number:	9866375
Patent Number:	9122552
Patent Number:	9841962
Patent Number:	9659051
Patent Number:	9195943
Patent Number:	9563849
Patent Number:	9535737
Patent Number:	9491052
Patent Number:	8752137
Patent Number:	9489499
Patent Number:	9442708
Patent Number:	9274811
Patent Number:	9197606
Patent Number:	8789022
Patent Number:	9286189
Patent Number:	9207928
Patent Number:	9208183
Patent Number:	8510810
Patent Number:	9094217
Patent Number:	7249174
Patent Number:	8296755
Patent Number:	8869132
Patent Number:	8589343
Patent Number:	8549036
Patent Number:	8549114
Patent Number:	8533197
Patent Number:	8335692
Patent Number:	8266096
Patent Number:	7996500
Patent Number:	10002203
Patent Number:	6453346
Patent Number:	5511220
Patent Number:	5517641
Patent Number:	5566334
Patent Number:	5572674
Patent Number:	5579515

Property Type	Number
Patent Number:	5625817
Patent Number:	5655081
Patent Number:	5664217
Patent Number:	5758357
Patent Number:	5761091
Patent Number:	5761667
Patent Number:	5761676
Patent Number:	5815096
Patent Number:	5860069
Patent Number:	5887274
Patent Number:	5919247
Patent Number:	5956507
Patent Number:	5978594
Patent Number:	5991761
Patent Number:	6009271
Patent Number:	6011871
Patent Number:	6014740
Patent Number:	6141759
Patent Number:	6151707
Patent Number:	6163783
Patent Number:	6202136
Patent Number:	6272519
Patent Number:	6272536
Patent Number:	6298371
Patent Number:	6304967
Patent Number:	6327677
Patent Number:	6367075
Application Number:	14851899
Application Number:	15476704
Application Number:	15915754
Application Number:	15699571
Application Number:	15699582
Application Number:	14872869
Application Number:	14839167
Application Number:	15222491
Application Number:	12570628
Application Number:	15680718
Application Number:	12650302

Property Type	Number
Application Number:	14041973
Application Number:	15704926
Application Number:	15700932
Application Number:	15650212
Application Number:	15072948
Application Number:	13006127
Application Number:	13018084
Application Number:	13082194
Application Number:	14798029
Application Number:	14563830
Application Number:	14837862
Application Number:	13436887
Application Number:	15005550
Application Number:	15797714
Application Number:	13631189
Application Number:	15407107
Application Number:	15476609
Application Number:	15672984
Application Number:	14961235
Application Number:	13835739
Application Number:	15620341
Application Number:	14640581
Application Number:	15476528
Application Number:	13929351
Application Number:	15436144
Application Number:	15593232
Application Number:	13842252
Application Number:	13930466
Application Number:	14041753
Application Number:	15211883
Application Number:	15385216
Application Number:	15056108
Application Number:	15809380
Application Number:	15335343
Application Number:	15335350
Application Number:	14674751
Application Number:	15151127
Application Number:	15175711

Property Type	Number
Application Number:	15864712
Application Number:	15476694
Application Number:	14659337
Application Number:	14750549
Application Number:	14840954
Application Number:	15620447
Application Number:	15184209
Application Number:	15658896
Application Number:	15418060
Application Number:	15262723
Application Number:	15287151
Application Number:	15272011
Application Number:	15475830
Application Number:	15476573
Application Number:	15476478
Application Number:	15852758
Application Number:	15826192
Application Number:	15783355
Application Number:	15450936
Application Number:	15476677
Application Number:	15388382
Application Number:	15054710
Application Number:	14947569
Application Number:	12977780
Application Number:	62480250
Application Number:	15247666
Application Number:	15940121
Application Number:	15954037

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.

Phone: 202-835-7500

Email: dcip@milbank.com

Correspondent Name: KRISTIN YOHANNAN, ESQ.

Address Line 1: 1850 K STREET, NW, SUITE 1100

Address Line 2: MILBANK, TWEED, HADLEY & MCCLOY, LLP

Address Line 4: WASHINGTON, D.C. 20006

NAME OF SUBMITTER:	KRISTIN L. YOHANNAN
SIGNATURE:	/s/ Kristin L. Yohannan
DATE SIGNED:	10/02/2018

Total Attachments: 31

source=10. Banff - Patent Security Agreement [Executed]#page1.tif
source=10. Banff - Patent Security Agreement [Executed]#page2.tif
source=10. Banff - Patent Security Agreement [Executed]#page3.tif
source=10. Banff - Patent Security Agreement [Executed]#page4.tif
source=10. Banff - Patent Security Agreement [Executed]#page5.tif
source=10. Banff - Patent Security Agreement [Executed]#page6.tif
source=10. Banff - Patent Security Agreement [Executed]#page7.tif
source=10. Banff - Patent Security Agreement [Executed]#page8.tif
source=10. Banff - Patent Security Agreement [Executed]#page9.tif
source=10. Banff - Patent Security Agreement [Executed]#page10.tif
source=10. Banff - Patent Security Agreement [Executed]#page11.tif
source=10. Banff - Patent Security Agreement [Executed]#page12.tif
source=10. Banff - Patent Security Agreement [Executed]#page13.tif
source=10. Banff - Patent Security Agreement [Executed]#page14.tif
source=10. Banff - Patent Security Agreement [Executed]#page15.tif
source=10. Banff - Patent Security Agreement [Executed]#page16.tif
source=10. Banff - Patent Security Agreement [Executed]#page17.tif
source=10. Banff - Patent Security Agreement [Executed]#page18.tif
source=10. Banff - Patent Security Agreement [Executed]#page19.tif
source=10. Banff - Patent Security Agreement [Executed]#page20.tif
source=10. Banff - Patent Security Agreement [Executed]#page21.tif
source=10. Banff - Patent Security Agreement [Executed]#page22.tif
source=10. Banff - Patent Security Agreement [Executed]#page23.tif
source=10. Banff - Patent Security Agreement [Executed]#page24.tif
source=10. Banff - Patent Security Agreement [Executed]#page25.tif
source=10. Banff - Patent Security Agreement [Executed]#page26.tif
source=10. Banff - Patent Security Agreement [Executed]#page27.tif
source=10. Banff - Patent Security Agreement [Executed]#page28.tif
source=10. Banff - Patent Security Agreement [Executed]#page29.tif
source=10. Banff - Patent Security Agreement [Executed]#page30.tif
source=10. Banff - Patent Security Agreement [Executed]#page31.tif

GRANT OF
SECURITY INTEREST IN PATENT RIGHTS

This GRANT OF SECURITY INTEREST IN PATENT RIGHTS (this "Agreement"), dated as of October 2, 2018, is made by the entities party to this Agreement (each, a "Grantor"), in favor of Credit Suisse AG, Cayman Islands Branch, as collateral agent (in such capacity, the "Agent") for the benefit of the Secured Parties in connection with that certain Credit Agreement, dated as of October 2, 2018 (as amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Banff Guarantor Inc., a Delaware corporation ("Holdings"), Banff Merger Sub Inc., a Delaware corporation and a Wholly-Owned Restricted Subsidiary of Holdings ("Merger Sub" and, at any time prior to the consummation of the Acquisition, the "Borrower"), Boxer Parent Company, Inc., a Delaware corporation (the "Company" and, upon and at any time after the consummation of the Acquisition, the "Borrower"), the lenders from time to time party thereto (each, a "Lender" and, collectively, the "Lenders"), the Letter of Credit Issuers from time to time party thereto, and Credit Suisse AG, Cayman Islands Branch, as the Administrative Agent and the Collateral Agent for the benefit of the Secured Parties.

W I T N E S S E T H:

WHEREAS, pursuant to the Credit Agreement, the Lenders and the Letter of Credit Issuers have severally agreed to make their respective Extensions of Credit to the Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, in connection with the Credit Agreement, each Grantor and any Subsidiaries that become a party thereto, have executed and delivered the Security Agreement, dated as of October 2, in favor of the Agent (together with all amendments, restatements, supplements and modifications, if any, from time to time thereafter made thereto, the "Security Agreement");

WHEREAS, pursuant to the Security Agreement, each Grantor has granted to the Agent, for the benefit of the Secured Parties, a lien on and security interest in, all of its right, title and interest in, to and under certain Intellectual Property, including the Patents, that is not Excluded Property; and

NOW THEREFORE, in consideration of the premises and to induce the Administrative Agent, the Collateral Agent, the Lenders and the Letter of Credit Issuers to enter into the Credit Agreement, to induce the Lenders and the Letter of Credit Issuers to make their respective Extensions of Credit under the Credit Agreement and to induce one or more Cash Management Banks or Hedge Banks to enter into Secured Cash Management Agreements or Secured Hedge Agreements with the Borrower and/or its Restricted Subsidiaries, the Grantors hereby agree with the Collateral Agent, for the benefit of the Secured Parties, as follows:

1. Definitions. Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement, including its preamble and recitals, have the meanings provided or provided by reference in the Credit Agreement and the Security Agreement.

2. Grant of Security Interest. Each Grantor hereby grants a lien on and security interest in all of such Grantor's right, title and interest in, to and under the Patents that are not Excluded Property (including, without limitation, those items listed on Schedule A hereto), including the right to receive all Proceeds therefrom (collectively, the "Collateral"), to the Agent for the benefit of the Secured Parties as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise), in full of the Obligations.

**PATENT
REEL: 047185 FRAME: 0757**

3.   Purpose. This Agreement has been executed and delivered by each Grantor for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office. The security interest granted hereby has been granted to the Secured Parties in connection with the Security Agreement and is expressly subject to the terms and conditions thereof. The Security Agreement (and all rights and remedies of the Secured Parties thereunder) shall remain in full force and effect in accordance with its terms.

4.   Acknowledgment. Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Secured Parties with respect to the security interest in the Collateral granted hereby are more fully set forth in the Credit Agreement and the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern. In the event of any conflict between the terms of this Agreement and the terms of the Credit Agreement, the terms of the Credit Agreement shall govern.

5.   Counterparts. This Agreement may be executed in counterparts, each of which will be deemed an original, but all of which together constitute one and the same original.

6.   Governing Law: THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the date first written above.

BMC SOFTWARE, INC., as Grantor

By: _____
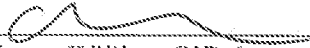Name: Stephen B. Solcher
Title: Chief Financial Officer

BLADELOGIC, INC., as Grantor

By: _____
Name: Stephen B. Solcher
Title: President

CREDIT SUISSE AG, CAYMAN ISLANDS
BRANCH, as the Collateral Agent

By: _____
Name: William O'Daly
Title: Authorized Signatory

By: _____
Name: Brady Bingham
Title: Authorized Signatory

SCHEDULE A

Patent Registrations and Applications

PATENTS

Title	Patent No.	Issue Date	Owner
Hot spot analysis of IMS databases	6418443	Jul 9, 2002	BMC Software, Inc.
Referential integrity navigation in a database system	6502092	Dec 31, 2002	BMC Software, Inc.
Navigation of view relationships in database system	6609122	Aug 19, 2003	BMC Software, Inc.
Enterprise management system and method which includes a common enterprise-wide namespace and prototype-based hierarchical inheritance	6895586	May 17, 2005	BMC Software, Inc.
Graphical display of IMS space usage characteristics	6873989	Mar 29, 2005	BMC Software, Inc.
A System selects a best-fit form or URL in an originating web page as a target URL for replaying a predefined path through the internet	6901438	May 31, 2005	BMC Software, Inc.
A system and method for selecting a best-fit form or URL in an originating web page as a target URL for replaying a predefined path through the internet	7849162	Dec 7, 2010	BMC Software, Inc.
System and method of mediating a web page	6954783	Oct 11, 2005	BMC Software, Inc.
System and method of mediating a web page	7631102	Dec 8, 2009	BMC Software, Inc.
Method and apparatus for online and dynamic extension of IMS data entry databases	6691121	Feb 10, 2004	BMC Software, Inc.
IMS on-line reorganization utility	6606631	Aug 12, 2003	BMC Software, Inc.
Service desk system architecture for a mobile service workforce	6668054	Dec 23, 2003	BMC Software, Inc.
Service desk system for allowing easily changeable	6671368	Dec 30, 2003	BMC Software, Inc.

associations for data retrieval and display			
Customizing business logic and data sources by modifying methods defined within an API	6678887	Jan 13, 2004	BMC Software, Inc.
Graphical representation of disorganized database records in an IMS database	6748379	Jun 8, 2004	BMC Software, Inc.
Graphical representation of disorganized database records in an IMS database	7849061	Dec 7, 2010	BMC Software, Inc.
System and method for analyzing a database for on-line reorganization	6633884	Oct 14, 2003	BMC Software, Inc.
System and Method for Application Performance Management	7350209	Mar 25, 2008	BMC Software, Inc.
Performance and flow analysis method for communication networks	6900822	May 31, 2005	BMC Software, Inc.
Performance and flow analysis method for communication networks	7480866	Jan 20, 2009	BMC Software, Inc.
Database management system and method which monitors action results and adjusts user parameters in response	8271457	Sep 18, 2012	BMC Software, Inc.
Database management system and method which monitors activity levels and determines appropriate schedule times	6944630	Sep 13, 2005	BMC Software, Inc.
Database management system and method which monitors activity levels and determines appropriate schedule times	7302449	Nov 27, 2007	BMC Software, Inc.
Database management system and method which monitors activity levels and determines appropriate schedule times	9037536	May 19, 2015	BMC Software, Inc.
System and method for creating a series of online snapshots for recovery purposes	6799189	Sep 28, 2004	BMC Software, Inc.
System and method for intercepting file system writes	6606685	Aug 12, 2003	BMC Software, Inc.
Database management system and method which automatically schedules and	6996576	Feb 7, 2006	BMC Software, Inc.

performs actions and monitors results			
Method and apparatus for collecting performance data in a computer application	7490147	Feb 10, 2009	BMC Software, Inc.
System and method for automatic workload characterization	7028301	Apr 11, 2006	BMC Software, Inc.
System and method for controlling free space distribution by key range within a database	7299243	Nov 20, 2007	BMC Software, Inc.
System and method for controlling free space distribution by key range within a database	7720876	May 18, 2010	BMC Software, Inc.
System and method of enterprise systems and business impact management	6983321	Jan 3, 2006	BMC Software, Inc.
System and method of enterprise systems and business impact management	7774458	Aug 10, 2010	BMC Software, Inc.
System and method of enterprise systems and business impact management	7930396	Apr 19, 2011	BMC Software, Inc.
Service desk data transfer interface	7089245	Aug 8, 2006	BMC Software, Inc.
Service desk data transfer interface	8819084	Aug 26, 2014	BMC Software, Inc.
Service desk data transfer interface	9710569	Jul 18, 2017	BMC Software, Inc.
Service desk data transfer interface	9792387	Oct 17, 2017	BMC Software, Inc.
System and method for updating information on a computer system using a limited amount of space	7512635	Mar 31, 2009	BMC Software, Inc.
System and method for WAP server management using a single console	7170864	Jan 30, 2007	BMC Software, Inc.
System and method for comparing database data	7054891	May 30, 2006	BMC Software, Inc.
Synthetic transaction monitor with replay capability	7506047	Mar 17, 2009	BMC Software, Inc.
Synthetic transaction monitor with replay capability	7966398	Jun 21, 2011	BMC Software, Inc.
Java application response time analyzer	7461369	Dec 2, 2008	BMC Software, Inc.
Method and system for collecting, aggregating and	7792948	Sep 7, 2010	BMC Software, Inc.

viewing performance data on a site-wide basis			
Run-time access techniques for database images	7024420	Apr 4, 2006	BMC Software, Inc.
System and method for determining a character encoding scheme	6701320	Mar 2, 2004	BMC Software, Inc.
System and method for secure communications with a remote software program	7877783	Jan 25, 2011	BMC Software, Inc.
System and method for database structure comparison	7680833	Mar 16, 2010	BMC Software, Inc.
Reorganizing database objects using variable length keys	7496572	Feb 24, 2009	BMC Software, Inc.
Outage-less database change operation	7809762	Oct 5, 2010	BMC Software, Inc.
Database reorganization technique	8239343	Aug 7, 2012	BMC Software, Inc.
System and method for assessing and indicating the health of components	7617073	Nov 10, 2009	BMC Software, Inc.
System and method for assessing and indicating the health of components	8050890	Nov 1, 2011	BMC Software, Inc.
System and method for inputing data to a sort utility from a user program	7111003	Sep 19, 2006	BMC Software, Inc.
System and method for statistical performance monitoring	7076397	Jul 11, 2006	BMC Software, Inc.
System and method for statistical performance monitoring	8000932	Aug 16, 2011	BMC Software, Inc.
Method and system for automatically updating multiple servers	7020706	Mar 28, 2006	BMC Software, Inc.
System and method for packaging updates	7194728	Mar 20, 2007	BMC Software, Inc.
System and method for packaging updates	8151261	Apr 3, 2012	BMC Software, Inc.
System and method for updating devices that execute an operating system or application program directly from nonvolatile storage	7287068	Oct 23, 2007	BMC Software, Inc.
System and method for updating devices that execute an operating system	7996501	Aug 9, 2011	BMC Software, Inc.

application program directly from nonvolatile storage			
System and method for updating devices using limited amounts of random access memory	6976133	Dec 13, 2005	BMC Software, Inc.
Unobtrusive point-in-time consistent copies	7133884	Nov 7, 2006	BMC Software, Inc.
Unobtrusive point-in-time consistent copies	7769718	Aug 3, 2010	BMC Software, Inc.
Removing overflow rows in a relational database	7555491	Jun 30, 2009	BMC Software, Inc.
Network transaction discovery	7996515	Aug 9, 2011	BMC Software, Inc.
Network transaction discovery	8560684	Oct 15, 2013	BMC Software, Inc.
Two-phase root cause analysis	7062683	Jun 13, 2006	BMC Software, Inc.
Method of heuristic determination of network interface transmission mode and apparatus implementing such method	7742423	Jun 22, 2010	BMC Software, Inc.
Heuristic determination of network interface transmission mode	7940691	May 10, 2011	BMC Software, Inc.
Method and apparatus for logically reconstructing incomplete records	7076481	Jul 11, 2006	BMC Software, Inc.
Constraint processing	7930291	Apr 19, 2011	BMC Software, Inc.
Constraint processing	9449067	Sep 20, 2016	BMC Software, Inc.
Cascade delete processing	7664790	Feb 16, 2010	BMC Software, Inc.
Cascade delete processing	8645331	Feb 4, 2014	BMC Software, Inc.
Software performance and management system	6772411	Aug 3, 2004	BMC Software, Inc.
Method and apparatus for loading data into multi-table tablespace	8818953	Aug 26, 2014	BMC Software, Inc.
Method and apparatus for building index of source data	7933927	Apr 26, 2011	BMC Software, Inc.
System and method for identifying changes made to a computer system due to software installation	7448033	Nov 4, 2008	BMC Software, Inc.
System and method for collecting statistics related to software usage	7925635	Apr 12, 2011	BMC Software, Inc.
System and method for resource reconciliation in an	9137115	Sep 15, 2015	BMC Software, Inc.

enterprise management system			
Generic discovery for computer networks	8683032	Mar 25, 2014	BMC Software, Inc.
Generic discovery for computer networks	9967162	May 8, 2018	BMC Software, Inc.
User interface for network discovery operations	7941506	May 10, 2011	BMC Software, Inc.
System and method for business service management	8612408	Dec 17, 2013	BMC Software, Inc.
System and method for building business service model	8862631	Oct 14, 2014	BMC Software, Inc.
System and method for building business service model	9239857	Jan 19, 2016	BMC Software, Inc.
Web services availability cache	7716353	May 11, 2010	BMC Software, Inc.
Method and System for Deployment of Agents	8443438	May 14, 2013	BMC Software, Inc.
Overlay Dataset	9792348	Oct 17, 2017	BMC Software, Inc.
Bi-Directional Communication Between Change Management Tool and Implementation Tools	8887133	Nov 11, 2014	BMC Software, Inc.
Bi-Directional Communication Between Change Management Tool and Implementation Tools	9152413	Oct 6, 2015	BMC Software, Inc.
Database Application Federation	9122719	Sep 1, 2015	BMC Software, Inc.
Configuration management database reference instance	7685167	Mar 23, 2010	BMC Software, Inc.
Log data store and assembler for large objects in database system	7730044	Jun 1, 2010	BMC Software, Inc.
Log data store and assembler for large objects in database system	8121992	Feb 21, 2012	BMC Software, Inc.
Automated capacity provisioning method using historical performance data	8555287	Oct 8, 2013	BMC Software, Inc.
Automated capacity provisioning method using historical performance data	9065783	Jun 23, 2015	BMC Software, Inc.
Automated capacity provisioning method using historical performance data	9405587	Aug 2, 2016	BMC Software, Inc.
Database recovery using logs applied to consistent copies	8671076	Mar 11, 2014	BMC Software, Inc.

Associating database log records into logical groups	8306945	Nov 6, 2012	BMC Software, Inc.
System and method for providing access to a database during a recovery process	7801865	Sep 21, 2010	BMC Software, Inc.
Dynamic folding of listed items for display	9779181	Oct 3, 2017	BMC Software, Inc.
Dynamic compression of systems management data	7765346	Jul 27, 2010	BMC Software, Inc.
Dynamic compression of systems management data	8117361	Feb 14, 2012	BMC Software, Inc.
Impact propagation in a directed acyclic graph	8301755	Oct 30, 2012	BMC Software, Inc.
Impact propagation in a directed acyclic graph having restricted views	8051164	Nov 1, 2011	BMC Software, Inc.
Network management system to monitor managed elements	7882213	Feb 1, 2011	BMC Software, Inc.
Monitoring several distributed resource elements as a resource pool	7689628	Mar 30, 2010	BMC Software, Inc.
Abnormality indicator of a desired group of resource elements	7502844	Mar 10, 2009	BMC Software, Inc.
Facilitating root cause analysis for abnormal behavior of systems in a networked environment	7783744	Aug 24, 2010	BMC Software, Inc.
Interfacing external metrics into a performance management system	6816898	Nov 9, 2004	BMC Software, Inc.
Method and system to correlate a specific alarm to one or more events to identify a possible cause of the alarm	7131037	Oct 31, 2006	BMC Software, Inc.
Service model flight recorder	8082275	Dec 20, 2011	BMC Software, Inc.
System, method and computer program product for optimized root cause analysis	8463899	Jun 11, 2013	BMC Software, Inc.
IMS change mapper	8190579	May 29, 2012	BMC Software, Inc.
Method and system for configuration management database software license compliance	8646093	Feb 4, 2014	BMC Software, Inc.
System and method for scheduled and collaborative	8775456	Jul 8, 2014	BMC Software, Inc.

distribution of software and data to many thousands of clients over a network using dynamic virtual proxies			
Automation of Mainframe Software Deployment	8464246	Jun 11, 2013	BMC Software, Inc.
Method to make SMP/E based products self describing	8584117	Nov 12, 2013	BMC Software, Inc.
Data Set Size Tracking and Management	9251149	Feb 2, 2016	BMC Software, Inc.
Unobtrusive Copies of Actively Used Compressed Indices	8843449	Sep 23, 2014	BMC Software, Inc.
Unobtrusive Copies of Actively Used Compressed Indices	9753811	Sep 5, 2017	BMC Software, Inc.
Software Title Discovery	8346752	Jan 1, 2013	BMC Software, Inc.
Balancing Data Across Partitions of a Table Space During Load Processing	9177004	Nov 3, 2015	BMC Software, Inc.
Normalization Engine to Manage Configuration Management Database Integrity	8554750	Oct 8, 2013	BMC Software, Inc.
CMDB federation method and management system	8082222	Dec 20, 2011	BMC Software, Inc.
MDR federation facility for CMDBF	8380749	Feb 19, 2013	BMC Software, Inc.
Method and system to automatically adapt web services from one protocol/idiom to another protocol/idiom	8473595	Jun 25, 2013	BMC Software, Inc.
Relational Database Page-Level Schema Transformations	8161001	Apr 17, 2012	BMC Software, Inc.
Asynchronous Collection and Correlation of Trace and Communications Event Data	9037555	May 19, 2015	BMC Software, Inc.
Authorized Application Services via an XML Message Protocol	8353013	Jan 8, 2013	BMC Software, Inc.
Database Quiesce Operations	8171005	May 1, 2012	BMC Software, Inc.
Automated computer systems event processing	8601489	Dec 3, 2013	BMC Software, Inc.
Method to automatically redirect SRB routines to a zIIP eligible enclave	8352947	Jan 8, 2013	BMC Software, Inc.

Method to automatically redirect SRB routines to a zIIP eligible enclave	9477518	Oct 25, 2016	BMC Software, Inc.
Method to automatically redirect SRB routines to a zIIP eligible enclave	8352948	Jan 8, 2013	BMC Software, Inc.
Method to automatically redirect SRB routines to a zIIP eligible enclave	9158572	Oct 13, 2015	BMC Software, Inc.
Index page split avoidance with mass insert processing	8682872	Mar 25, 2014	BMC Software, Inc.
Offline Restructuring of DEDB Databases	8700566	Apr 15, 2014	BMC Software, Inc.
Offline Restructuring of DEDB Databases	9128976	Sep 8, 2015	BMC Software, Inc.
Area-Specific Reload of Database	8180728	May 15, 2012	BMC Software, Inc.
Method and system for traversing in reverse chronological order along a critical path of a plurality of jobs, and reducing time gaps between jobs until an estimated end time of the last job is less than or equal to a target end time	8473951	Jun 25, 2013	BMC Software, Inc.
Method of Collecting and Correlating Locking Data to Determine Ultimate Holders in Real Time	8407531	Mar 26, 2013	BMC Software, Inc.
Automating Application Provisioning for Heterogeneous Datacenter Environments	9122536	Sep 1, 2015	BMC Software, Inc.
Automating Application Provisioning for Heterogeneous Datacenter Environments	9766935	Sep 19, 2017	BMC Software, Inc.
Intelligent and Elastic Resource Pools for Heterogeneous Datacenter Environments	8589554	Nov 19, 2013	BMC Software, Inc.
Extending a Database Recovery Point At A Disaster Recovery Site	9767181	Sep 19, 2017	BMC Software, Inc.
Method and system to enable inferencing for natural language queries of configuration management databases	8380645	Feb 19, 2013	BMC Software, Inc.

Event Enrichment Using Data Correlation	8954563	Feb 10, 2015	BMC Software, Inc.
Utility-Optimized Scheduling of Time-Sensitive Tasks in a Resource-Constrained Environment	8875143	Oct 28, 2014	BMC Software, Inc.
Utility-Optimized Scheduling of Time-Sensitive Tasks in a Resource-Constrained Environment	9875135	Jan 23, 2018	BMC Software, Inc.
Mechanism for Deprecating Object Oriented Data	8983982	Mar 17, 2015	BMC Software, Inc.
Mechanism for Deprecating Object Oriented Data	9760589	Sep 12, 2017	BMC Software, Inc.
Smart Impact Views	8743121	Jun 3, 2014	BMC Software, Inc.
Automatic Determination of Dynamic Threshold for Accurate Detection of Abnormalities	8457928	Jun 4, 2013	BMC Software, Inc.
Auto Adjustment of Baseline on Configuration Change	8478569	Jul 2, 2013	BMC Software, Inc.
Graph Expansion Mini-View	9710938	Jul 18, 2017	BMC Software, Inc.
Method for Customizing Software Applications	8832652	Sep 9, 2014	BMC Software, Inc.
Method for Customizing Software Applications	9363252	Jun 7, 2016	BMC Software, Inc.
Mechanism to Display Graphical IT Infrastructure Using Configurable Smart Navigation	9467344	Oct 11, 2016	BMC Software, Inc.
Statistical Identification of Instances During Reconciliation Process	8712979	Apr 29, 2014	BMC Software, Inc.
Statistical Identification of Instances During Reconciliation Process	9323801	Apr 26, 2016	BMC Software, Inc.
Application blueprint and deployment model for dynamic business service management (BSM)	9805322	Oct 31, 2017	BMC Software, Inc.
Centrally Managed Impersonation	8677446	Mar 18, 2014	BMC Software, Inc.
Spotlight graphs	8674992	Mar 18, 2014	BMC Software, Inc.
System and method for offering virtual private clouds within a public cloud environment	8402127	Mar 19, 2013	BMC Software, Inc.
Client-side application script error processing	9003378	Apr 7, 2015	BMC Software, Inc.

Full-function to high availability large database conversion	8321480	Nov 27, 2012	BMC Software, Inc.
Log-Based DDL Generation	8924398	Dec 30, 2014	BMC Software, Inc.
Detection of customizations of application elements	8539598	Sep 17, 2013	BMC Software, Inc.
System and method for stateless, fault tolerance and load balanced data collection using overlay namespaces	8478888	Jul 2, 2013	BMC Software, Inc.
System and method for stateless, fault tolerance and load balanced data collection using overlay namespaces	8645555	Feb 4, 2014	BMC Software, Inc.
System and method for stateless, fault tolerance and load balanced data collection using overlay namespaces	8671194	Mar 11, 2014	BMC Software, Inc.
Dynamic dispatch for distributed object-oriented software systems	8589471	Nov 19, 2013	BMC Software, Inc.
Server management with dynamic construction of pre-boot images	9250918	Feb 2, 2016	BMC Software, Inc.
Directed graph transitive closure	8667027	Mar 4, 2014	BMC Software, Inc.
Methods and apparatus related to graph transformation and synchronization	9116968	Aug 25, 2015	BMC Software, Inc.
Methods and apparatus related to completion of large objects within a DB2 database environment	8595190	Nov 26, 2013	BMC Software, Inc.
Pre-bursting to external clouds	8606924	Dec 10, 2013	BMC Software, Inc.
Use of metrics selected based on lag correlation to provide leading indicators of service performance degradation	9195563	Nov 24, 2015	BMC Software, Inc.
Event processing based on meta-relationship definition	8595264	Nov 26, 2013	BMC Software, Inc.
Automated upgrading method for capacity of it system resources	9356846	May 31, 2016	BMC Software, Inc.
Automated service time estimation method for IT system resources	9350627	May 24, 2016	BMC Software, Inc.

Systems and methods for displaying, viewing and navigating three dimensional representations	8610743	Dec 17, 2013	BMC Software, Inc.
Cloud-based resource identification and allocation	8843633	Sep 23, 2014	BMC Software, Inc.
Service context	8745040	Jun 3, 2014	BMC Software, Inc.
Mobile service context	8818994	Aug 26, 2014	BMC Software, Inc.
Service context	9412084	Aug 9, 2016	BMC Software, Inc.
Systems and methods for displaying and viewing data models	8907988	Dec 9, 2014	BMC Software, Inc.
Provision of index recommendations for database access	9773032	Sep 26, 2017	BMC Software, Inc.
Methods and apparatus for monitoring execution of a database query program	9015188	Apr 21, 2015	BMC Software, Inc.
Methods and apparatus for monitoring execution of a database query program	9652503	May 16, 2017	BMC Software, Inc.
Dynamic evocations for computer event management	8689241	Apr 1, 2014	BMC Software, Inc.
Systems and methods for applying dynamic relational typing to a strongly-typed object-oriented API	8782601	Jul 15, 2014	BMC Software, Inc.
Systems and methods related to a temporal log structure database	8478771	Jul 2, 2013	BMC Software, Inc.
Methods and apparatus for performing database management utility processes	9104429	Aug 11, 2015	BMC Software, Inc.
Database recovery progress report	8880479	Nov 4, 2014	BMC Software, Inc.
Determination of quality of a consumer's experience of streaming media	8706895	Apr 22, 2014	BMC Software, Inc.
Monitoring based on client perspective	8688982	Apr 1, 2014	BMC Software, Inc.
Monitoring based on client perspective	8694779	Apr 8, 2014	BMC Software, Inc.
Database utilities	6622142	Sep 16, 2003	BMC Software, Inc.
Database utilities	7016905	Mar 21, 2006	BMC Software, Inc.
Database utilities	7096227	Aug 22, 2006	BMC Software, Inc.
Space management of an IMS database	7337199	Feb 26, 2008	BMC Software, Inc.

Ensuring that a database and its description are synchronized	7444338	Oct 28, 2008	BMC Software, Inc.
Facilitating suspension of batch application program access to shared IMS resources	7685122	Mar 23, 2010	BMC Software, Inc.
Display window with multi-layer, parallel tab display	9189134	Nov 17, 2015	BMC Software, Inc.
Registry synchronizer and integrity monitor	9300624	Mar 29, 2016	BMC Software, Inc.
Registry synchronizer and integrity monitor	9516109	Dec 6, 2016	BMC Software, Inc.
Dynamic service resource control	9223623	Dec 29, 2015	BMC Software, Inc.
Monitoring network performance remotely	9100320	Aug 4, 2015	BMC Software, Inc.
Systems and methods for migrating database data	8818949	Aug 26, 2014	BMC Software, Inc.
Systems and methods for migrating database data	9152659	Oct 6, 2015	BMC Software, Inc.
Window-based scheduling using a key-value data store	8959518	Feb 17, 2015	BMC Software, Inc.
Automated blueprint assembly for assembling an application	8914768	Dec 16, 2014	BMC Software, Inc.
Automated blueprint assembly for assembling an application	9557969	Jan 31, 2017	BMC Software, Inc.
Automated blueprint assembly for assembling an application	9727315	Aug 8, 2017	BMC Software, Inc.
Systems and methods for altering limit key values	8447791	May 21, 2013	BMC Software, Inc.
Unique attribute constraints for versioned database objects	8812539	Aug 19, 2014	BMC Software, Inc.
Application instrumentation code extension	9251026	Feb 2, 2016	BMC Software, Inc.
Semi-automatic discovery and generation of useful service blueprints	8874704	Oct 28, 2014	BMC Software, Inc.
Application of business process management standards for dynamic information technology management	9805319	Oct 31, 2017	BMC Software, Inc.
Zero-outage database reorganization	9547672	Jan 17, 2017	BMC Software, Inc.

Unicode character conversion using one of two conversion services	9048854	Jun 2, 2015	BMC Software, Inc.
Computing infrastructure planning	9317327	Apr 19, 2016	BMC Software, Inc.
Additive independent object modification	9645833	May 9, 2017	BMC Software, Inc.
Progressive analysis for big data	9734237	Aug 15, 2017	BMC Software, Inc.
Automated capacity aware provisioning	9135076	Sep 15, 2015	BMC Software, Inc.
Relative addressing usage for CPU performance	9122495	Sep 1, 2015	BMC Software, Inc.
System and methods for remote access to IMS databases	9218226	Dec 22, 2015	BMC Software, Inc.
System and methods for remote access to IMS databases	9674293	Jun 6, 2017	BMC Software, Inc.
Automatic Creation Of Graph Time Layer Of Model Of Computer Network Objects And Relationships	9208051	Dec 8, 2015	BMC Software, Inc.
Exception based quality assessment	9052980	Jun 9, 2015	BMC Software, Inc.
Service placement techniques for a cloud datacenter	9946527	Apr 17, 2018	BMC Software, Inc.
Managing a server template	9098322	Aug 4, 2015	BMC Software, Inc.
Managing a server template	9519504	Dec 13, 2016	BMC Software, Inc.
Managing a server template	9760396	Sep 12, 2017	BMC Software, Inc.
Systems and methods for remote access to DB2 databases	9218401	Dec 22, 2015	BMC Software, Inc.
Systems and methods for remote access to DB2 databases	9679059	Jun 13, 2017	BMC Software, Inc.
Memory Leak Detection	9003233	Apr 7, 2015	BMC Software, Inc.
Method and system to release IMS resources used by IMS batch application programs	9336067	May 10, 2016	BMC Software, Inc.
Off-screen window controls	9213555	Dec 15, 2015	BMC Software, Inc.
Management of annotated location aware assets	9631934	Apr 25, 2017	BMC Software, Inc.
Management of annotated location aware assets	9534903	Jan 3, 2017	BMC Software, Inc.
User-centric annotated location aware asset mapping	9261372	Feb 16, 2016	BMC Software, Inc.

Storing and retrieving context sensitive data in a management system	9158799	Oct 13, 2015	BMC Software, Inc.
Storing and retrieving context sensitive data in a management system	9852165	Dec 26, 2017	BMC Software, Inc.
Adaptive learning of effective troubleshooting patterns	9710525	Jul 18, 2017	BMC Software, Inc.
Business development configuration	9508051	Nov 29, 2016	BMC Software, Inc.
Multi-entity normalization	9613070	Apr 4, 2017	BMC Software, Inc.
Authentication proxy agent	9654473	May 16, 2017	BMC Software, Inc.
Application accelerator	9098557	Aug 4, 2015	BMC Software, Inc.
Systems and methods for efficient DB2 outage operations	9342351	May 17, 2016	BMC Software, Inc.
Server provisioning based on job history analysis	9819547	Nov 14, 2017	BMC Software, Inc.
Information portal based on partner information	8898237	Nov 25, 2014	BMC Software, Inc.
Network based application management	9396499	Jul 19, 2016	BMC Software, Inc.
Application wrapping system and method	9535674	Jan 3, 2017	BMC Software, Inc.
System and method for automated customization of applications	9946528	Apr 17, 2018	BMC Software, Inc.
Lifecycle reference partitioning for database objects	9311381	Apr 12, 2016	BMC Software, Inc.
Application monitoring for cloud-based architectures	9819729	Nov 14, 2017	BMC Software, Inc.
Capacity risk management for virtual machines	9483299	Nov 1, 2016	BMC Software, Inc.
Capacity risk management for virtual machines	9983900	May 29, 2018	BMC Software, Inc.
Monitoring signed resources transferred over a network	9712516	Jul 18, 2017	BMC Software, Inc.
Dynamic workload capping	9342372	May 17, 2016	BMC Software, Inc.
Generation of support data records using natural language processing	9864798	Jan 9, 2018	BMC Software, Inc.
Cost optimization in dynamic workload capping	9680657	Jun 13, 2017	BMC Software, Inc.
System and method to dynamically allocate varying processing capacity	9846600	Dec 19, 2017	BMC Software, Inc.

entitlements based on workload importance			
Method and apparatus for obtaining storage information from a transaction log	6418437	Jul 9, 2002	BMC Software, Inc.
Method and apparatus for obtaining storage information from a transaction log	7188108	Mar 6, 2007	BMC Software, Inc.
Enterprise management system and method which includes semantically correct summarization	6560647	May 6, 2003	BMC Software, Inc.
Enterprise management system and method which includes summarization having a plurality of levels of varying granularity	6513065	Jan 28, 2003	BMC Software, Inc.
Enterprise management system and method which includes statistical recreation of system resource usage for more accurate monitoring, prediction, and performance workload characterization	6691067	Feb 10, 2004	BMC Software, Inc.
System and method for integrating a plurality of disparate database utilities into a single graphical user interface	6523035	Feb 18, 2003	BMC Software, Inc.
Protocol technology for client/server environment	6901435	May 31, 2005	BMC Software, Inc.
Enterprise management system and method which indicates chaotic behavior in system resource usage for more accurate modeling and prediction	6564174	May 13, 2003	BMC Software, Inc.
Enterprise management system and method which indicates chaotic behavior in system resource usage for more accurate modeling and prediction	6643614	Nov 4, 2003	BMC Software, Inc.
Sequential unload processing of IMS databases	7720805	May 18, 2010	BMC Software, Inc.
Method and apparatus for using a static metadata object to reduce database accesses	6393424	May 21, 2002	BMC Software, Inc.

Method and apparatus for accepting and rejecting files according to a manifest	6430608	Aug 6, 2002	BMC Software, Inc.
Method and apparatus for controlling client computer systems	6381631	Apr 30, 2002	BMC Software, Inc.
Method and apparatus for identifying changes made to a computer system due to software installation	6738970	May 18, 2004	BMC Software, Inc.
Method and Apparatus for Intelligent Storage and Reduction of Network Information	6453346 (Expired)	Sep 17,2002	BMC Software, Inc.
MULTI-USER COMPUTER SYSTEM WITH A CLOCK DRIVEN BATCH DISPATCHING MECHANISM	5511220 (Expired)	Apr 23, 1996	BMC Software, Inc.
RESTARTABLE METHOD TO REORGANIZE DB2 TABLESPACE RECORDS BY DETERMINING NEW PHYSICAL POSITIONS FOR THE RECORDS PRIOR TO MOVING USING A NON SORTING TECHNIC	5517641(Expired)	May 14, 1996	BMC Software, Inc.
METHOD FOR PROCESSING INTERRUPT REQUESTS IN A COMPUTER SYSTEM OPERATING ENVIRONMENT HAVING DIFFERENT TYPES OF SUPERVISOR PROGRAMS CONCERNED WITH SPECIFIED TYPES OF INTERRUPT EVENTS	5566334 (Expired)	Oct 15, 1996	BMC Software, Inc.
METHOD OF DYNAMICALLY ADJUSTING SNA NETWORK CONTROL PROGRAM PARAMETERS	5572674 (Expired)	Nov 05, 1996	BMC Software, Inc.
METHOD OF CHECKING INDEX INTEGRITY IN A DB2 DATABASE	5579515 (Expired)	Nov 26, 1996	BMC Software, Inc.
METHOD OF IDENTIFYING DB2 OBJECTS TO BE	5625817 (Expired)	Apr 29, 1997	BMC Software, Inc.

RECOVERED FROM AN UNAVAILABLE DASD VOLUME WITHOUT NEED TO ACCESS THE DASD VOLUME ITSELF AND WITHOUT NEED FOR PRE-FAILURE PREPARATION			
SYSTEM FOR MONITORING AND MANAGING COMPUTER RESOURCES AND APPLICATIONS ACROSS A DISTRIBUTED COMPUTING ENVIRONMENT USING AN INTELLIGENT AUTONOMOUS AGENT ARCHITECTURE	5655081 (Expired)	Aug 05, 1997	BMC Software, Inc.
METHOD OF AVOIDING PHYSICAL I/O VIA CACHING WITH PRIORITIZED LRU MANAGEMENT	5664217 (Expired)	Sep 02, 1997	BMC Software, Inc.
FAST DB2 TABLESPACE REORGANIZATION METHOD THAT IS RESTARTABLE AFTER INTERRUPTION OF THE PROCESS	5758357 (Expired)	May 26, 1998	BMC Software, Inc.
METHOD AND SYSTEM FOR REDUCING THE ERRORS IN THE MEASUREMENTS OF RESOURCE USAGE IN COMPUTER SYSTEM PROCESSES AND ANALYZING PROCESS DATA WITH SUBSYSTEM DATA	5761091 (Expired)	Jun 02, 1998	BMC Software, Inc.
METHOD OF OPTIMIZING DATABASE ORGANIZATION USING SEQUENTIAL UNLOAD/LOAD OPERATIONS	5761667 (Expired)	Jun 02, 1998	BMC Software, Inc.
METHOD OF REMOVING UNNEEDED DATA FROM DB2 LOGS AND OTHER DATA SETS HAVING	5761676 (Expired)	Jun 02, 1998	BMC Software, Inc.

DISPLACEMENT-DEPENDENT DATA			
METHOD FOR COMPRESSING SEQUENTIAL DATA INTO COMPRESSION SYMBOLS USING DOUBLE-INDIRECT INDEXING INTO A DICTIONARY DATA STRUCTURE	5815096 (Expired)	Sep 29, 1998	BMC Software, Inc.
METHOD OF EFFICIENT COLLECTION OF SQL PERFORMANCE MEASURES	5860069 (Expired)	Jan 12, 1999	BMC Software, Inc.
RESTARTABLE FAST DB2 TABLESPACE REORGANIZATION METHOD	5887274 (Expired)	Mar 23, 1999	BMC Software, Inc.
METHOD FOR THE DISTRIBUTION OF CODE AND DATA UPDATES	5919247 (Expired)	Jul 06, 1999	BMC Software, Inc.
DYNAMIC ALTERATION OF OPERATING SYSTEM KERNEL RESOURCE TABLES	5956507 (Expired)	Sep 21, 1999	BMC Software, Inc.
SYSTEM FOR MANAGING COMPUTER RESOURCES ACROSS A DISTRIBUTED COMPUTING ENVIRONMENT BY FIRST READING DISCOVERY INFORMATION ABOUT HOW TO DETERMINE SYSTEM RESOURCES PRESENCE	5978594 (Expired)	Nov 02, 1999	BMC Software, Inc.
METHOD OF REORGANIZING A DATA ENTRY DATABASE	5991761 (Expired)	Nov 23, 1999	BMC Software, Inc.
METHOD OF RETRIEVING DATA FROM A RELATIONAL DATABASE	6009271 (Expired)	Dec 28, 1999	BMC Software, Inc.
METHOD AND APPARATUS FOR COMPRESSING DIGITAL DATA	6011871 (Expired)	Jan 04, 2000	BMC Software, Inc.
SINGLE INSTRUCTION METHOD OF SEIZING CONTROL OF PROGRAM EXECUTION FLOW IN A	6014740 (Expired)	Jan 11, 2000	BMC Software, Inc.

MULTIPROCESSOR COMPUTER SYSTEM			
SYSTEM AND ARCHITECTURE FOR DISTRIBUTING, MONITORING, AND MANAGING INFORMATION REQUESTS ON A COMPUTER NETWORK	6141759 (Expired)	Oct 31, 2000	BMC Software, Inc.
SYSTEM AND METHOD FOR PRODUCT REGISTRATION	6151707 (Expired)	Nov 21, 2000	BMC Software, Inc.
CHECK DATA OPERATION FOR DB2	6163783 (Expired)	Dec 19, 2000	BMC Software, Inc.
METHOD OF CREATING AN INTERNALLY CONSISTENT COPY OF AN ACTIVELY UPDATED DATA SET WITHOUT SPECIALIZED CACHING HARDWARE	6202136 (Expired)	Mar 13, 2001	BMC Software, Inc.
DYNAMIC ALTERATION OF OPERATING SYSTEM KERNEL RESOURCE TABLES	6272519 (Expired)	Aug 07, 2001	BMC Software, Inc.
SYSTEM AND METHOD FOR THE DISTRIBUTION OF CODE AND DATA	6272536 (Expired)	Aug 07, 2001	BMC Software, Inc.
METHOD OF DYNAMICALLY ADJUSTING NCP PROGRAM MEMORY ALLOCATION OF SNA NETWORK	6298371 (Expired)	Oct 02, 2001	BMC Software, Inc.
System and architecture for distributing, monitoring, and managing information requests on a computer network	6304967 (Expired)	Oct 16, 2001	BMC Software, Inc.
METHOD AND APPARATUS FOR MONITORING A NETWORK ENVIRONMENT	6327677 (Expired)	Dec 04, 2001	BMC Software, Inc.
METHOD AND APPARATUS FOR PRODUCING INSTRUCTIONS DESCRIBING THE	6367075 (Expired)	Apr 2, 2002	BMC Software, Inc.

REMOVAL OF UPDATES TO A COMPUTER SYSTEM			
Method and system for simplifying distributed server management	8447963	May 21, 2013	BladeLogic, Inc.
Method and system for simplifying distributed server management	9100283	Aug 4, 2015	BladeLogic, Inc.
Method and system for simplifying distributed server management	9794110	Oct 17, 2017	BladeLogic, Inc.
Multi-level key management	8971535	Mar 3, 2015	BladeLogic, Inc.
Multi-level key management	9866375	Jan 9, 2018	BladeLogic, Inc.
Hybrid cloud infrastructures	9122552	Sep 1, 2015	BladeLogic, Inc.
Hybrid-cloud infrastructures	9841962	Dec 12, 2017	BladeLogic, Inc.
Enforcing referential integrity for object data documents	9659051	May 23, 2017	BladeLogic, Inc.
Behavioral rules discovery for intelligent computing environment administration	9195943	Nov 24, 2015	BladeLogic, Inc.
Behavioral rules discovery for intelligent computing environment administration	9563849	Feb 7, 2017	BladeLogic, Inc.
Dynamic virtual port provisioning	9535737	Jan 3, 2017	BladeLogic, Inc.
Topology aware smart merge	9491052	Nov 8, 2016	BladeLogic, Inc.
Security context passing for stateless system management	8752137	Jun 10, 2014	BladeLogic, Inc.
Security context passing for stateless system management	9489499	Nov 8, 2016	BladeLogic, Inc.
System and method for installing, updating and uninstalling applications	9442708	Sep 13, 2016	BladeLogic, Inc.
System and method for cloud provisioning and application deployment	9274811	Mar 1, 2016	BladeLogic, Inc.
Monitoring network performance of encrypted communications	9197606	Nov 24, 2015	BladeLogic, Inc.
Self-evolving computing service template translation	8789022	Jul 22, 2014	BladeLogic, Inc.
Self-evolving computing service template translation	9286189	Mar 15, 2016	BladeLogic, Inc.
Computer-readable medium, apparatus, and methods of automatic capability installation	9207928	Dec 8, 2015	BladeLogic, Inc.

Title	Application No.	Application Date	Owner
Data access of slowly changing dimensions	9208183	Dec 8, 2015	BladeLogic, Inc.
Secure credential store	8510810	Aug 13, 2013	BladeLogic, Inc.
Secure credential store	9094217	Jul 28, 2015	BladeLogic, Inc.
Method and system for executing and undoing distributed server change operations	7249174	Jul 24, 2007	BladeLogic, Inc.
Method and system for executing and undoing distributed server change operations	8296755	Oct 23, 2012	BladeLogic, Inc.
Method and system for executing and undoing distributed server change operations	8869132	Oct 21, 2014	BladeLogic, Inc.
Systems and methods for digital file change monitoring	8589343	Nov 19, 2013	BladeLogic, Inc.
Information technology enterprise manager and product portfolio manager application module	8549036	Oct 1, 2013	BladeLogic, Inc.
Method and system for model-based heterogeneous server configuration management	8549114	Oct 1, 2013	BladeLogic, Inc.
Continuous content sharing through intelligent resolution of federated hierarchical graphs	8533197	Sep 10, 2013	BladeLogic, Inc.
Systems and methods to support information technology business decisions	8335692	Dec 18, 2012	BladeLogic, Inc.
Vendor portfolio management in support of vendor relationship management analysis, planning and evaluation	8266096	Sep 11, 2012	BladeLogic, Inc.
Systems and Methods for Extensible Distributed Configuration Management	7996500	Aug 9, 2011	BladeLogic, Inc.
Service desk data transfer interface	10002203	June 19, 2018	BMC Software, Inc.

PATENT APPLICATIONS

Title	Application No.	Application Date	Owner

PATENT
REEL: 047185 FRAME: 0782

Resource reconciliation	14851899	Sep 11, 2015	BMC Software, Inc.
Resource reconciliation	15476704	Mar 31, 2017	BMC Software, Inc.
System and method for building business service model	15915754	Mar 8, 2018	BMC Software, Inc.
Overlay Dataset	15699571	Sep 8, 2017	BMC Software, Inc.
Overlay Dataset	15699582	Sep 8, 2017	BMC Software, Inc.
Bi-Directional Communication Between Change Management Tool and Implementation Tools	14872869	Oct 1, 2015	BMC Software, Inc.
Database Application Federation	14839167	Aug 28, 2015	BMC Software, Inc.
Automated capacity provisioning method using historical performance data	15222491	Jul 28, 2016	BMC Software, Inc.
Method of reconciling resources in the metadata hierarchy	12570628	Sep 30, 2009	BMC Software, Inc.
Unobtrusive Copies of Actively Used Compressed Indices	15680718	Aug 18, 2017	BMC Software, Inc.
Unified Service Model for Business Service Management	12650302	Dec 30, 2009	BMC Software, Inc.
Normalization Engine to Manage Configuration Management Database Integrity	14041973	Sep 30, 2013	BMC Software, Inc.
Extending a Database Recovery Point At A Disaster Recovery Site	15704926	Sep 14, 2017	BMC Software, Inc.
Mechanism for Deprecating Object Oriented Data	15700932	Sep 11, 2017	BMC Software, Inc.
Graph Expansion Mini-View	15650212	Jul 14, 2017	BMC Software, Inc.
Statistical Identification of Instances During Reconciliation Process	15072948	Mar 17, 2016	BMC Software, Inc.
Integrating action requests from a plurality of spoke systems at a hub system	13006127	Jan 13, 2011	BMC Software, Inc.
Focus-driven user interface	13018084	Jan 31, 2011	BMC Software, Inc.

Cooperative naming for configuration items in a distributed configuration management database environment	13082194	Apr 7, 2011	BMC Software, Inc.
Methods and apparatus related to graph transformation and synchronization	14798029	Jul 13, 2015	BMC Software, Inc.
Systems and methods for displaying and viewing data models	14563830	Dec 8, 2014	BMC Software, Inc.
Systems and methods for migrating database data	14837862	Aug 27, 2015	BMC Software, Inc.
Optimization of path selection for transfers of files	13436887	Mar 31, 2012	BMC Software, Inc.
Application instrumentation code extension	15005550	Jan 25, 2016	BMC Software, Inc.
Application of business process management standards for dynamic information technology management	15797714	Oct 30, 2017	BMC Software, Inc.
Elastic Packaging of Application Configuration	13631189	Sep 28, 2012	BMC Software, Inc.
Zero-outage database reorganization	15407107	Jan 16, 2017	BMC Software, Inc.
Additive independent object modification	15476609	Mar 31, 2017	BMC Software, Inc.
Progressive analysis for big data	15672984	Aug 9, 2017	BMC Software, Inc.
Automatic Creation Of Graph Time Layer Of Model Of Computer Network Objects And Relationships	14961235	Dec 7, 2015	BMC Software, Inc.
Configurable user interface interactions using a state machine combined with event orchestration	13835739	Mar 15, 2013	BMC Software, Inc.
Systems and methods for remote access to DB2 databases	15620341	Jun 12, 2017	BMC Software, Inc.

Memory Leak Detection	14640581	Mar 6, 2015	BMC Software, Inc.
Management of annotated location aware assets	15476528	Mar 31, 2017	BMC Software, Inc.
Work assignment queue elimination	13929351	Jun 27, 2013	BMC Software, Inc.
Multi-entity normalization	15436144	Feb 17, 2017	BMC Software, Inc.
Authentication proxy agent	15593232	May 11, 2017	BMC Software, Inc.
Story-mode user interface	13842252	Mar 15, 2013	BMC Software, Inc.
Auction based decentralized ticket allotment	13930466	Jun 28, 2013	BMC Software, Inc.
Workload management for license cost optimization	14041753	Sep 30, 2013	BMC Software, Inc.
Network based application management	15211883	Jul 15, 2016	BMC Software, Inc.
Application wrapping system and method	15385216	Dec 20, 2016	BMC Software, Inc.
Reference partitioning for database objects	15056108	Feb 29, 2016	BMC Software, Inc.
Application monitoring for cloud-based architectures	15809380	Nov 10, 2017	BMC Software, Inc.
Capacity risk management for virtual machines	15335343	Oct 26, 2016	BMC Software, Inc.
Capacity risk management for virtual machines	15335350	Oct 26, 2016	BMC Software, Inc.
Systems and methods for formless information technology and social support mechanics	14674751	Mar 31, 2015	BMC Software, Inc.
Dynamic workload capping	15151127	May 10, 2016	BMC Software, Inc.
Using multi-factor context for resolving customer service issues	15175711	Jun 7, 2016	BMC Software, Inc.
Generation of support data records using natural language processing	15864712	Jan 8, 2018	BMC Software, Inc.

Behavioral analytics in information technology infrastructure incident management systems	15476694	Mar 31, 2017	BMC Software, Inc.
Maintaining virtual machine templates	14659337	Mar 16, 2015	BMC Software, Inc.
Determining statuses computer modules	14750549	Jun 25, 2015	BMC Software, Inc.
Extensibility of business logic shared across a business process orchestration engine, a rule engine, and a user interface	14840954	Aug 31, 2015	BMC Software, Inc.
Dynamic workload capping	15620447	Jun 12, 2017	BMC Software, Inc.
Reorganization of partition by growth space with lob columns	15184209	Jun 16, 2016	BMC Software, Inc.
Systems and methods for intercepting access to messaging systems	15658896	Jul 25, 2017	BMC Software, Inc.
Automated scoring of unstructured events in information technology environments	15418060	Jan 27, 2017	BMC Software, Inc.
System and method to dynamically allocate varying processing capacity entitlements based on workload importance	15262723	Sep 12, 2016	BMC Software, Inc.
Automatic server cluster discovery	15287151	Oct 6, 2016	BMC Software, Inc.
Computing workload distribution planning tool	15272011	Sep 21, 2016	BMC Software, Inc.
Phased start and stop of resources in a mainframe environment	15475830	Mar 31, 2017	BMC Software, Inc.
Asset floor map	15476573	Mar 31, 2017	BMC Software, Inc.
Cloud Service Interdependency Relationship Detection	15476478	Mar 31, 2017	BMC Software, Inc.
Automatic server classification in cloud environments	15852758	Dec 22, 2017	BMC Software, Inc.
Systems and Methods for Recovery of	15826192	Nov 29, 2017	BMC Software, Inc.

Consistent Database Indexes			
Method and system for simplifying distributed server management	15783355	Oct 13, 2017	BladeLogic, Inc.
Provisioning of containers for virtualized applications	15450936	Mar 6, 2017	BladeLogic, Inc.
Enforcing referential integrity for object data documents	15476677	Mar 31, 2017	BladeLogic, Inc.
Behavioral rules discovery for intelligent computing environment administration	15388382	Dec 22, 2016	BladeLogic, Inc.
System and method for cloud provisioning and application deployment	15054710	Feb 26, 2016	BladeLogic, Inc.
Monitoring network performance of encrypted communications	14947569	Nov 20, 2015	BladeLogic, Inc.
Auto-Suggesting IT Asset Groups Using Clustering Techniques	12977780	Dec 23, 2010	BladeLogic, Inc.
Systems and methods for intercepting access to messaging systems	62480250	Mar 31, 2017	BMC Software, Inc.
System and Method for Installing, Updating and Uninstalling Applications	15247666	Aug 25, 2016	BladeLogic Inc.
Generic discovery for computer networks	15940121	Mar 29, 2018	BMC Software, Inc.
Service Placement Techniques for a Cloud Datacenter	15954037	Apr 16,2018	BMC Software, Inc.