

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5625216

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the RECORDAL TO REMOVE INADVERTENTLY RECORDED PROPERTIES SHOWN IN ATTACHED SHEET previously recorded on Reel 047681 Frame 0916. Assignor(s) hereby confirms the ASSIGNEE HEREBY CONFIRMS THE ASSIGNMENT..	
CONVEYING PARTY DATA		
Name		Execution Date
MICROSOFT TECHNOLOGY LICENSING, LLC		11/15/2018
RECEIVING PARTY DATA		
Name:	SERVICENOW, INC.	
Street Address:	2225 LAWSON LANE	
City:	SANTA CLARA	
State/Country:	CALIFORNIA	
Postal Code:	95054	
PROPERTY NUMBERS Total: 165		
Property Type	Number	
Patent Number:	6792455	
Patent Number:	7035924	
Patent Number:	7882215	
Patent Number:	6775699	
Application Number:	10902383	
Patent Number:	7523180	
Application Number:	60893348	
Patent Number:	8443074	
Patent Number:	7720906	
Patent Number:	8468542	
Patent Number:	8839265	
Patent Number:	7577934	
Patent Number:	8924964	
Patent Number:	9710297	
Patent Number:	7310634	
Patent Number:	6917935	
Patent Number:	7313561	
Patent Number:	7546226	
PATENT		

Property Type	Number
Patent Number:	7275024
Patent Number:	7908125
Patent Number:	7634478
Patent Number:	7912820
Patent Number:	7216169
Patent Number:	7174479
Patent Number:	7457984
Patent Number:	7428736
Patent Number:	7199885
Patent Number:	7973957
Patent Number:	7446894
Patent Number:	7453585
Patent Number:	7016055
Patent Number:	8400665
Patent Number:	7436535
Patent Number:	7463371
Patent Number:	7515139
Patent Number:	7450261
Patent Number:	7239401
Patent Number:	8213027
Application Number:	60513591
Patent Number:	7212296
Patent Number:	7443531
Patent Number:	8199131
Patent Number:	7511836
Patent Number:	7240069
Patent Number:	7266548
Patent Number:	7940686
Patent Number:	7925786
Patent Number:	8234340
Patent Number:	8244812
Patent Number:	7987251
Patent Number:	7925975
Patent Number:	8370743
Application Number:	15458337
Patent Number:	9632650
Patent Number:	7296232
Patent Number:	7895209

Property Type	Number
Patent Number:	8498985
Patent Number:	8055649
Patent Number:	8666967
Application Number:	61041425
Patent Number:	7930760
Patent Number:	8060920
Patent Number:	7941551
Patent Number:	7904929
Patent Number:	8024611
Patent Number:	7213175
Patent Number:	7895574
Patent Number:	7181473
Patent Number:	7188342
Patent Number:	7181500
Patent Number:	7225362
Patent Number:	7594230
Application Number:	60366795
Application Number:	60367013
Patent Number:	7228551
Application Number:	60361520
Patent Number:	7430738
Patent Number:	7231377
Patent Number:	7620704
Patent Number:	7454483
Patent Number:	7260535
Patent Number:	7233947
Patent Number:	6754657
Patent Number:	7216133
Patent Number:	7191364
Patent Number:	7299228
Patent Number:	7237184
Application Number:	11621815
Patent Number:	7181681
Patent Number:	7216255
Patent Number:	7600153
Patent Number:	7313727
Patent Number:	7631071
Patent Number:	7228312

Property Type	Number
Patent Number:	7191186
Patent Number:	7194386
Patent Number:	7472040
Patent Number:	7941418
Patent Number:	7975059
Patent Number:	7925773
Application Number:	60255238
Patent Number:	7299274
Application Number:	60255044
Application Number:	60255043
Application Number:	60255153
Application Number:	60255042
Application Number:	60255041
Patent Number:	7340446
Patent Number:	7689921
Patent Number:	6996778
Application Number:	60255052
Application Number:	60255050
Patent Number:	7584278
Application Number:	60255051
Patent Number:	7308440
Patent Number:	6950990
Application Number:	60366794
Patent Number:	7313652
Patent Number:	7225296
Patent Number:	6915384
Patent Number:	7124400
Application Number:	11008730
Patent Number:	7155380
Patent Number:	6907395
Patent Number:	7574343
Patent Number:	7113900
Application Number:	11379964
Patent Number:	7971187
Patent Number:	9354904
Patent Number:	7873940
Application Number:	15089428
Patent Number:	8015563

Property Type	Number
Application Number:	11427041
Application Number:	11836418
Patent Number:	7689676
Application Number:	13942536
Patent Number:	8489728
Patent Number:	7802144
Patent Number:	7797147
Patent Number:	7475125
Patent Number:	7831820
Application Number:	60893350
Patent Number:	8015139
Patent Number:	7159016
Patent Number:	7058953
Patent Number:	7664023
Patent Number:	7243157
Patent Number:	8930315
Patent Number:	7899788
Patent Number:	8245223
Application Number:	90008546
Patent Number:	7711688
Patent Number:	7080089
Patent Number:	7085752
Patent Number:	7584207
Patent Number:	7730446
PCT Number:	US2006008200
PCT Number:	US2004023631
PCT Number:	US2007005798
PCT Number:	US2001048014
PCT Number:	US2009035297
PCT Number:	US2007004699
PCT Number:	US2004024194
PCT Number:	US2004023607
PCT Number:	US2011026928

CORRESPONDENCE DATA

Fax Number: (281)970-4503

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: 2819704545

Email: docket@fyiplaw.com
Correspondent Name: MICHAEL G. FLETCHER
Address Line 1: P.O. BOX 692289
Address Line 4: HOUSTON, TEXAS 77269

ATTORNEY DOCKET NUMBER:	SNPA:0002 (V3)-M
NAME OF SUBMITTER:	MICHAEL G. FLETCHER
SIGNATURE:	/Michael G. Fletcher/
DATE SIGNED:	07/18/2019

Total Attachments: 57

source=2019-07-18_Corrective Assignment_Microsoft#page1.tif
source=2019-07-18_Corrective Assignment_Microsoft#page2.tif
source=2019-07-18_Corrective Assignment_Microsoft#page3.tif
source=2019-07-18_Corrective Assignment_Microsoft#page4.tif
source=2019-07-18_Corrective Assignment_Microsoft#page5.tif
source=2019-07-18_Corrective Assignment_Microsoft#page6.tif
source=2019-07-18_Corrective Assignment_Microsoft#page7.tif
source=2019-07-18_Corrective Assignment_Microsoft#page8.tif
source=2019-07-18_Corrective Assignment_Microsoft#page9.tif
source=2019-07-18_Corrective Assignment_Microsoft#page10.tif
source=2019-07-18_Corrective Assignment_Microsoft#page11.tif
source=2019-07-18_Corrective Assignment_Microsoft#page12.tif
source=2019-07-18_Corrective Assignment_Microsoft#page13.tif
source=2019-07-18_Corrective Assignment_Microsoft#page14.tif
source=2019-07-18_Corrective Assignment_Microsoft#page15.tif
source=2019-07-18_Corrective Assignment_Microsoft#page16.tif
source=2019-07-18_Corrective Assignment_Microsoft#page17.tif
source=2019-07-18_Corrective Assignment_Microsoft#page18.tif
source=2019-07-18_Corrective Assignment_Microsoft#page19.tif
source=2019-07-18_Corrective Assignment_Microsoft#page20.tif
source=2019-07-18_Corrective Assignment_Microsoft#page21.tif
source=2019-07-18_Corrective Assignment_Microsoft#page22.tif
source=2019-07-18_Corrective Assignment_Microsoft#page23.tif
source=2019-07-18_Corrective Assignment_Microsoft#page24.tif
source=2019-07-18_Corrective Assignment_Microsoft#page25.tif
source=2019-07-18_Corrective Assignment_Microsoft#page26.tif
source=2019-07-18_Corrective Assignment_Microsoft#page27.tif
source=2019-07-18_Corrective Assignment_Microsoft#page28.tif
source=2019-07-18_Corrective Assignment_Microsoft#page29.tif
source=2019-07-18_Corrective Assignment_Microsoft#page30.tif
source=2019-07-18_Corrective Assignment_Microsoft#page31.tif
source=2019-07-18_Corrective Assignment_Microsoft#page32.tif
source=2019-07-18_Corrective Assignment_Microsoft#page33.tif
source=2019-07-18_Corrective Assignment_Microsoft#page34.tif
source=2019-07-18_Corrective Assignment_Microsoft#page35.tif
source=2019-07-18_Corrective Assignment_Microsoft#page36.tif
source=2019-07-18_Corrective Assignment_Microsoft#page37.tif

source=2019-07-18_Corrective Assignment_Microsoft#page38.tif
source=2019-07-18_Corrective Assignment_Microsoft#page39.tif
source=2019-07-18_Corrective Assignment_Microsoft#page40.tif
source=2019-07-18_Corrective Assignment_Microsoft#page41.tif
source=2019-07-18_Corrective Assignment_Microsoft#page42.tif
source=2019-07-18_Corrective Assignment_Microsoft#page43.tif
source=2019-07-18_Corrective Assignment_Microsoft#page44.tif
source=2019-07-18_Corrective Assignment_Microsoft#page45.tif
source=2019-07-18_Corrective Assignment_Microsoft#page46.tif
source=2019-07-18_Corrective Assignment_Microsoft#page47.tif
source=2019-07-18_Corrective Assignment_Microsoft#page48.tif
source=2019-07-18_Corrective Assignment_Microsoft#page49.tif
source=2019-07-18_Corrective Assignment_Microsoft#page50.tif
source=2019-07-18_Corrective Assignment_Microsoft#page51.tif
source=2019-07-18_Corrective Assignment_Microsoft#page52.tif
source=2019-07-18_Corrective Assignment_Microsoft#page53.tif
source=2019-07-18_Corrective Assignment_Microsoft#page54.tif
source=2019-07-18_Corrective Assignment_Microsoft#page55.tif
source=2019-07-18_Corrective Assignment_Microsoft#page56.tif
source=2019-07-18_Corrective Assignment_Microsoft#page57.tif

Corrective Assignment Additional Sheet

U.S. Application No. 10/693,588;
U.S. Application No. 10/692,216;
U.S. Application No. 10/693,072;
U.S. Application No. 10/943,452;
U.S. Application No. 10/692,660;
U.S. Application No. 10/692,432;
U.S. Application No. 11/321,162;
U.S. Application No. 11/321,280;
U.S. Application No. 11/324,062;
U.S. Application No. 10/789,440;
U.S. Application No. 60/452,736;
U.S. Application No. 10/693,838;
U.S. Application No. 10/809,088;
U.S. Application No. 10/693,004;
U.S. Application No. 10/791,222;
U.S. Application No. 11/170,700;
U.S. Application No. 11/077,265;
U.S. Application No. 11/169,502;
U.S. Application No. 11/222,514;
U.S. Application No. 11/693,369;
U.S. Application No. 14/042,619;
U.S. Application No. 14/857,480;
U.S. Application No. 15/721,338;
U.S. Application No. 11/169,973.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 6, 2018

PTAS

MICHAEL G. FLETCHER
P.O. BOX 692289
HOUSTON, TX 77269

505210837

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/29/2018

REEL/FRAME: 047681/0916
NUMBER OF PAGES: 39

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: SNPA:0002 (V3) -MICROSOFT

ASSIGNOR:

MICROSOFT TECHNOLOGY LICENSING, LLC DOC DATE: 11/15/2018

ASSIGNEE:

SERVICENOW, INC.
2225 LAWSON LANE
SANTA CLARA, CALIFORNIA 95054

APPLICATION NUMBER: 09561114

FILING DATE: 04/28/2000

PATENT NUMBER: 7523180

ISSUE DATE: 04/21/2009

TITLE: SYSTEM AND METHOD FOR SERVICE CHAIN MANAGEMENT IN A CLIENT
MANAGEMENT TOOL

APPLICATION NUMBER: 09561155

FILING DATE: 04/28/2000

PATENT NUMBER: 6775699

ISSUE DATE: 08/10/2004

TITLE: SYSTEM AND METHOD FOR IMPLEMENTING INTEGRATED POLLING FUNCTIONS
IN A CLIENT MANAGEMENT TOOL

APPLICATION NUMBER: 09561277

FILING DATE: 04/28/2000

PATENT NUMBER: 6792455

ISSUE DATE: 09/14/2004

TITLE: SYSTEM AND METHOD FOR IMPLEMENTING POLLING AGENTS IN A CLIENT
MANAGEMENT TOOL

APPLICATION NUMBER: 09695813 FILING DATE: 10/24/2000
 PATENT NUMBER: 7113900 ISSUE DATE: 09/26/2006
 TITLE: SYSTEM AND METHOD FOR LOGICAL MODELING OF DISTRIBUTED COMPUTER
 SYSTEMS

APPLICATION NUMBER: 09696707 FILING DATE: 10/24/2000
 PATENT NUMBER: 6907395 ISSUE DATE: 06/14/2005
 TITLE: SYSTEM AND METHOD FOR DESIGNING A LOGICAL MODEL OF A DISTRIBUTED
 COMPUTER SYSTEM AND DEPLOYING PHYSICAL RESOURCES ACCORDING TO
 THE LOGICAL MODEL

APPLICATION NUMBER: 09839784 FILING DATE: 04/20/2001
 PATENT NUMBER: 7188342 ISSUE DATE: 03/06/2007
 TITLE: SERVER CONTROLLED BRANDING OF CLIENT SOFTWARE DEPLOYED OVER
 COMPUTER NETWORKS

APPLICATION NUMBER: 09878950 FILING DATE: 06/11/2001
 PATENT NUMBER: 7430738 ISSUE DATE: 09/30/2008
 TITLE: METHODS AND ARRANGEMENTS FOR ROUTING SERVER REQUESTS TO WORKER
 PROCESSES BASED ON URL

APPLICATION NUMBER: 09883585 FILING DATE: 06/18/2001
 PATENT NUMBER: 7181500 ISSUE DATE: 02/20/2007
 TITLE: SYSTEM AND METHOD FOR UTILIZING PERSONAL INFORMATION TO
 CUSTOMIZE AN OUTPUT OF AN APPLICATION PROGRAM

APPLICATION NUMBER: 09939180 FILING DATE: 08/24/2001
 PATENT NUMBER: 6754657 ISSUE DATE: 06/22/2004
 TITLE: TIME STAMPING OF DATABASE RECORDS

APPLICATION NUMBER: 10014114 FILING DATE: 12/11/2001
 PATENT NUMBER: 7308440 ISSUE DATE: 12/11/2007
 TITLE: SYSTEM AND METHOD FOR REPRESENTING AN OBJECT USED IN MANAGEMENT
 OF MULTIPLE NETWORK RESOURCES

APPLICATION NUMBER: 10014120 FILING DATE: 12/11/2001
 PATENT NUMBER: 6996778 ISSUE DATE: 02/07/2006
 TITLE: USER INTERFACE FOR MANAGING MULTIPLE NETWORK RESOURCES

APPLICATION NUMBER: 10014177 FILING DATE: 12/11/2001
 PATENT NUMBER: 7299274 ISSUE DATE: 11/20/2007
 TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES

APPLICATION NUMBER: 10014293 FILING DATE: 12/11/2001
 PATENT NUMBER: 7584278 ISSUE DATE: 09/01/2009
 TITLE: METHOD AND SYSTEM FOR TASK BASED MANAGEMENT OF MULTIPLE NETWORK
 RESOURCES

APPLICATION NUMBER: 10015050 FILING DATE: 12/11/2001
 PATENT NUMBER: 6950990 ISSUE DATE: 09/27/2005
 TITLE: NAVIGATION TOOL FOR ACCESSING WORKSPACES AND MODULES IN A
 GRAPHICAL USER INTERFACE

APPLICATION NUMBER: 10015129 FILING DATE: 12/11/2001
 PATENT NUMBER: 7340446 ISSUE DATE: 03/04/2008
 TITLE: METHOD AND SYSTEM FOR QUERY-BASED MANAGEMENT OF MULTIPLE NETWORK
 RESOURCES

APPLICATION NUMBER: 10023611 FILING DATE: 12/18/2001
PATENT NUMBER: 7159016 ISSUE DATE: 01/02/2007
TITLE: METHOD AND APPARATUS FOR CONFIGURING AN ENDPOINT DEVICE TO A
COMPUTER NETWORK

APPLICATION NUMBER: 10043364 FILING DATE: 01/09/2002
PATENT NUMBER: 7213175 ISSUE DATE: 05/01/2007
TITLE: METHODS AND SYSTEMS FOR MANAGING AN APPLICATION'S RELATIONSHIP
TO ITS RUN-TIME ENVIRONMENT

APPLICATION NUMBER: 10113240 FILING DATE: 04/01/2002
PATENT NUMBER: 7296232 ISSUE DATE: 11/13/2007
TITLE: CALENDAR CONTROL FOR SELECTION OF TIME PERIODS TO FILTER DATA

APPLICATION NUMBER: 10184223 FILING DATE: 06/26/2002
PATENT NUMBER: 6917935 ISSUE DATE: 07/12/2005
TITLE: MANIPULATING SCHEMATIZED DATA IN A DATABASE

APPLICATION NUMBER: 10202057 FILING DATE: 07/23/2002
PATENT NUMBER: 7058953 ISSUE DATE: 06/06/2006
TITLE: MANAGING A DISTRIBUTED COMPUTING SYSTEM

APPLICATION NUMBER: 10293425 FILING DATE: 11/12/2002
PATENT NUMBER: 7181473 ISSUE DATE: 02/20/2007
TITLE: IDENTIFYING FILES WITHIN A NAMESPACE

APPLICATION NUMBER: 10306022 FILING DATE: 11/27/2002
PATENT NUMBER: 7191186 ISSUE DATE: 03/13/2007
TITLE: METHOD AND COMPUTER-READABLE MEDIUM FOR IMPORTING AND EXPORTING
HIERARCHICALLY STRUCTURED DATA

APPLICATION NUMBER: 10377148 FILING DATE: 02/28/2003
PATENT NUMBER: 7225362 ISSUE DATE: 05/29/2007
TITLE: ENSURING THE HEALTH AND AVAILABILITY OF WEB APPLICATIONS

APPLICATION NUMBER: 10377175 FILING DATE: 02/28/2003
PATENT NUMBER: 7594230 ISSUE DATE: 09/22/2009
TITLE: WEB SERVER ARCHITECTURE

APPLICATION NUMBER: 10377176 FILING DATE: 02/28/2003
PATENT NUMBER: 7228551 ISSUE DATE: 06/05/2007
TITLE: WEB GARDEN APPLICATION POOLS HAVING A PLURALITY OF USER-MODE WEB
APPLICATIONS

APPLICATION NUMBER: 10386633 FILING DATE: 03/12/2003
PATENT NUMBER: 7275024 ISSUE DATE: 09/25/2007
TITLE: AUTOMATIC GENERATION OF A DIMENSIONAL MODEL FOR BUSINESS
ANALYTICS FROM AN OBJECT MODEL FOR ONLINE TRANSACTION PROCESSING

APPLICATION NUMBER: 10387508 FILING DATE: 03/12/2003
PATENT NUMBER: 7085752 ISSUE DATE: 08/01/2006
TITLE: CUSTOMIZATION OF METADATA DESCRIBING OBJECTS IN A COMPUTING
ENVIRONMENT

APPLICATION NUMBER: 10389163 FILING DATE: 03/14/2003
PATENT NUMBER: 6915384 ISSUE DATE: 07/05/2005
TITLE: MULTIPLE-LEVEL PERSISTED TEMPLATE CACHING

APPLICATION NUMBER: 10389670 FILING DATE: 03/12/2003
PATENT NUMBER: 7730446 ISSUE DATE: 06/01/2010
TITLE: SOFTWARE BUSINESS PROCESS MODEL

APPLICATION NUMBER: 10389683 FILING DATE: 03/12/2003
PATENT NUMBER: 7124400 ISSUE DATE: 10/17/2006
TITLE: EXTENSIBLE CUSTOMIZATION FRAMEWORK FOR A SOFTWARE SYSTEM

APPLICATION NUMBER: 10389684 FILING DATE: 03/12/2003
PATENT NUMBER: 7080089 ISSUE DATE: 07/18/2006
TITLE: CUSTOMIZATION OF PROCESS LOGIC IN A SOFTWARE SYSTEM

APPLICATION NUMBER: 10389686 FILING DATE: 03/12/2003
PATENT NUMBER: 7577934 ISSUE DATE: 08/18/2009
TITLE: FRAMEWORK FOR MODELING AND PROVIDING RUNTIME BEHAVIOR FOR
BUSINESS SOFTWARE APPLICATIONS

APPLICATION NUMBER: 10425985 FILING DATE: 04/28/2003
PATENT NUMBER: 7260535 ISSUE DATE: 08/21/2007
TITLE: WEB SERVER CONTROLS FOR WEB ENABLED RECOGNITION AND/OR AUDIBLE
PROMPTING FOR CALL CONTROLS

APPLICATION NUMBER: 10438180 FILING DATE: 05/14/2003
PATENT NUMBER: 7231377 ISSUE DATE: 06/12/2007
TITLE: METHOD AND APPARATUS FOR CONFIGURING A SERVER USING A KNOWLEDGE
BASE THAT DEFINES MULTIPLE SERVER ROLES

APPLICATION NUMBER: 10438290 FILING DATE: 05/14/2003
PATENT NUMBER: 7454483 ISSUE DATE: 11/18/2008
TITLE: METHOD AND APPARATUS FOR CONFIGURING SERVERS

APPLICATION NUMBER: 10444009 FILING DATE: 05/22/2003
PATENT NUMBER: 7233947 ISSUE DATE: 06/19/2007
TITLE: TIMESTAMPING IN DATABASES

APPLICATION NUMBER: 10456904 FILING DATE: 06/06/2003
PATENT NUMBER: 7912820 ISSUE DATE: 03/22/2011
TITLE: AUTOMATIC TASK GENERATOR METHOD AND SYSTEM

APPLICATION NUMBER: 10611372 FILING DATE: 06/30/2003
PATENT NUMBER: 7620704 ISSUE DATE: 11/17/2009
TITLE: METHOD AND APPARATUS FOR CONFIGURING A SERVER

APPLICATION NUMBER: 10611486 FILING DATE: 07/01/2003
PATENT NUMBER: 7216169 ISSUE DATE: 05/08/2007
TITLE: METHOD AND SYSTEM FOR ADMINISTERING PERSONAL COMPUTER HEALTH BY
REGISTERING MULTIPLE SERVICE PROVIDERS AND ENFORCING MUTUAL
EXCLUSION RULES

APPLICATION NUMBER: 10629254 FILING DATE: 07/29/2003
PATENT NUMBER: 7216133 ISSUE DATE: 05/08/2007
TITLE: SYNCHRONIZING LOGICAL VIEWS INDEPENDENT OF PHYSICAL STORAGE
REPRESENTATIONS

APPLICATION NUMBER: 10659453 FILING DATE: 09/10/2003
PATENT NUMBER: 7174479 ISSUE DATE: 02/06/2007
TITLE: METHOD AND SYSTEM FOR ROLLBACK-FREE FAILURE RECOVERY OF
MULTI-STEP PROCEDURES

APPLICATION NUMBER: 10692216 FILING DATE: 10/23/2003
PATENT NUMBER: 7103874 ISSUE DATE: 09/05/2006
TITLE: MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: 10692432 FILING DATE: 10/23/2003
PATENT NUMBER: 7765540 ISSUE DATE: 07/27/2010
TITLE: USE OF ATTRIBUTION TO DESCRIBE MANAGEMENT INFORMATION

APPLICATION NUMBER: 10692660 FILING DATE: 10/24/2003
PATENT NUMBER: 7506307 ISSUE DATE: 03/17/2009
TITLE: RULES DEFINITION LANGUAGE

APPLICATION NUMBER: 10693004 FILING DATE: 10/24/2003
PATENT NUMBER: 7890543 ISSUE DATE: 02/15/2011
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: 10693072 FILING DATE: 10/24/2003
PATENT NUMBER: 7539974 ISSUE DATE: 05/26/2009
TITLE: SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES

APPLICATION NUMBER: 10693588 FILING DATE: 10/24/2003
PATENT NUMBER: 7676560 ISSUE DATE: 03/09/2010
TITLE: USING URI'S TO IDENTIFY MULTIPLE INSTANCES WITH A COMMON SCHEMA

APPLICATION NUMBER: 10693838 FILING DATE: 10/24/2003
PATENT NUMBER: 8122106 ISSUE DATE: 02/21/2012
TITLE: INTEGRATING DESIGN, DEPLOYMENT, AND MANAGEMENT PHASES FOR SYSTEMS

APPLICATION NUMBER: 10699616 FILING DATE: 10/30/2003
PATENT NUMBER: 7904929 ISSUE DATE: 03/08/2011
TITLE: LOG ENTRIES

APPLICATION NUMBER: 10713867 FILING DATE: 11/14/2003
PATENT NUMBER: 7191364 ISSUE DATE: 03/13/2007
TITLE: AUTOMATIC ROOT CAUSE ANALYSIS AND DIAGNOSTICS ENGINE

APPLICATION NUMBER: 10714186 FILING DATE: 11/14/2003
PATENT NUMBER: 7240069 ISSUE DATE: 07/03/2007
TITLE: SYSTEM AND METHOD FOR BUILDING A LARGE INDEX

APPLICATION NUMBER: 10721514 FILING DATE: 11/24/2003
PATENT NUMBER: 7720906 ISSUE DATE: 05/18/2010
TITLE: WEB SERVICE FOR REMOTE APPLICATION DISCOVERY

APPLICATION NUMBER: 10722181 FILING DATE: 11/24/2003
PATENT NUMBER: 7475125 ISSUE DATE: 01/06/2009
TITLE: SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM AN EXTRANET

APPLICATION NUMBER: 10725665 FILING DATE: 12/02/2003
PATENT NUMBER: 7634478 ISSUE DATE: 12/15/2009
TITLE: METADATA DRIVEN INTELLIGENT DATA NAVIGATION

APPLICATION NUMBER: 10727176
PATENT NUMBER: 7313561
TITLE: MODEL DEFINITION SCHEMA

FILING DATE: 12/03/2003
ISSUE DATE: 12/25/2007

APPLICATION NUMBER: 10733541
PATENT NUMBER: 7299228
TITLE: LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION
EXTRACTION

FILING DATE: 12/11/2003
ISSUE DATE: 11/20/2007

APPLICATION NUMBER: 10739714
PATENT NUMBER: 7237184
TITLE: DATA PROPERTY PROMOTION SYSTEM AND METHOD

FILING DATE: 12/18/2003
ISSUE DATE: 06/26/2007

APPLICATION NUMBER: 10748391
PATENT NUMBER: 7546226
TITLE: ARCHITECTURE FOR AUTOMATING ANALYTICAL VIEW OF BUSINESS
APPLICATIONS

FILING DATE: 12/30/2003
ISSUE DATE: 06/09/2009

APPLICATION NUMBER: 10763553
PATENT NUMBER: 7631071
TITLE: MECHANISM FOR ENSURING PROCESSING OF MESSAGES RECEIVED WHILE IN
RECOVERY MODE

FILING DATE: 01/23/2004
ISSUE DATE: 12/08/2009

APPLICATION NUMBER: 10764096
PATENT NUMBER: 7216255
TITLE: ADAPTIVE RECOVERY FROM SYSTEM FAILURE FOR APPLICATION INSTANCES
THAT GOVERN MESSAGE TRANSACTIONS

FILING DATE: 01/23/2004
ISSUE DATE: 05/08/2007

APPLICATION NUMBER: 10767503
PATENT NUMBER: 7181681
TITLE: REALTIME WEB PAGE SCRAPPING AND VISUAL REPRESENTATION OF
ASSOCIATED CLICKTHROUGH AND IMPRESSION DATA ARCHITECTURE

FILING DATE: 01/28/2004
ISSUE DATE: 02/20/2007

APPLICATION NUMBER: 10783751
PATENT NUMBER: 7243157
TITLE: DYNAMIC PROTOCOL CONSTRUCTION

FILING DATE: 02/20/2004
ISSUE DATE: 07/10/2007

APPLICATION NUMBER: 10789440
PATENT NUMBER: 7072807
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED
DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS

FILING DATE: 02/26/2004
ISSUE DATE: 07/04/2006

APPLICATION NUMBER: 10791222
PATENT NUMBER: 7886041
TITLE: DESIGN TIME VALIDATION OF SYSTEMS

FILING DATE: 03/01/2004
ISSUE DATE: 02/08/2011

APPLICATION NUMBER: 10796435
PATENT NUMBER: 7228312
TITLE: TRANSFORMATION TOOL FOR MAPPING XML TO RELATIONAL DATABASE

FILING DATE: 03/09/2004
ISSUE DATE: 06/05/2007

APPLICATION NUMBER: 10809088
PATENT NUMBER: 7765501
TITLE: SETTINGS AND CONSTRAINTS VALIDATION TO ENABLE DESIGN FOR
OPERATIONS

FILING DATE: 03/25/2004
ISSUE DATE: 07/27/2010

APPLICATION NUMBER: 10879527
PATENT NUMBER: 7436535
TITLE: REAL-TIME INKING

FILING DATE: 06/30/2004
ISSUE DATE: 10/14/2008

APPLICATION NUMBER: 10881893
PATENT NUMBER: 7266548
TITLE: AUTOMATED TAXONOMY GENERATION

FILING DATE: 06/30/2004
ISSUE DATE: 09/04/2007

APPLICATION NUMBER: 10902380
PATENT NUMBER: 7035924
TITLE: SYSTEM AND METHOD FOR IMPLEMENTING POLLING AGENTS IN A CLIENT
MANAGEMENT TOOL

FILING DATE: 07/30/2004
ISSUE DATE: 04/25/2006

APPLICATION NUMBER: 10902383
PATENT NUMBER:
TITLE: SYSTEM AND METHOD FOR IMPLEMENTING INTEGRATED POLLING FUNCTIONS
IN A CLIENT MANAGEMENT TOOL

FILING DATE: 07/30/2004
ISSUE DATE:

APPLICATION NUMBER: 10943452
PATENT NUMBER: 7712085
TITLE: USE OF ATTRIBUTION TO DESCRIBE MANAGEMENT INFORMATION

FILING DATE: 09/17/2004
ISSUE DATE: 05/04/2010

APPLICATION NUMBER: 10985912
PATENT NUMBER: 7016055
TITLE: SYNCHRONIZATION OF PLUGINS

FILING DATE: 11/12/2004
ISSUE DATE: 03/21/2006

APPLICATION NUMBER: 10985920
PATENT NUMBER: 7450261
TITLE: WET INK

FILING DATE: 11/12/2004
ISSUE DATE: 11/11/2008

APPLICATION NUMBER: 10985923
PATENT NUMBER: 7239401
TITLE: FRAMEWORK FOR ORDERED HANDLING OF INFORMATION

FILING DATE: 11/12/2004
ISSUE DATE: 07/03/2007

APPLICATION NUMBER: 10986779
PATENT NUMBER: 7199885
TITLE: GENERIC INTERFACE

FILING DATE: 11/15/2004
ISSUE DATE: 04/03/2007

APPLICATION NUMBER: 10986801
PATENT NUMBER: 7515139
TITLE: DISPLAY ATTRIBUTE MODIFICATION

FILING DATE: 11/15/2004
ISSUE DATE: 04/07/2009

APPLICATION NUMBER: 10986803
PATENT NUMBER: 7443531
TITLE: MULTIPLE QUEUES HANDLING INFORMATION

FILING DATE: 11/15/2004
ISSUE DATE: 10/28/2008

APPLICATION NUMBER: 10986826
PATENT NUMBER: 7212296
TITLE: USE OF QUEUES

FILING DATE: 11/15/2004
ISSUE DATE: 05/01/2007

APPLICATION NUMBER: 10986841
PATENT NUMBER: 7511836
TITLE: MEMORY MANAGEMENT IN A MULTI-THREADED ENVIRONMENT

FILING DATE: 11/15/2004
ISSUE DATE: 03/31/2009

APPLICATION NUMBER: 10986882
PATENT NUMBER: 7463371
TITLE: ORDERING OF EVENTS BETWEEN DIFFERENT INPUT SOURCES

FILING DATE: 11/15/2004
ISSUE DATE: 12/09/2008

APPLICATION NUMBER: 10986892
PATENT NUMBER: 7453585
TITLE: ERROR NOTIFICATION HANDLING

FILING DATE: 11/15/2004
ISSUE DATE: 11/18/2008

APPLICATION NUMBER: 11008685 FILING DATE: 12/09/2004
PATENT NUMBER: 7155380 ISSUE DATE: 12/26/2006
TITLE: SYSTEM AND METHOD FOR DESIGNING A LOGICAL MODEL OF A DISTRIBUTED
COMPUTER SYSTEM AND DEPLOYING PHYSICAL RESOURCES ACCORDING TO
THE LOGICAL MODEL

APPLICATION NUMBER: 11008730 FILING DATE: 12/09/2004
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DESIGNING A LOGICAL MODEL OF A DISTRIBUTED
COMPUTER SYSTEM AND DEPLOYING PHYSICAL RESOURCES ACCORDING TO
THE LOGICAL MODEL

APPLICATION NUMBER: 11034963 FILING DATE: 01/14/2005
PATENT NUMBER: 7895574 ISSUE DATE: 02/22/2011
TITLE: SYSTEM AND METHODS FOR AUTOMATICALLY VERIFYING MANAGEMENT PACKS

APPLICATION NUMBER: 11049153 FILING DATE: 02/02/2005
PATENT NUMBER: 7310634 ISSUE DATE: 12/18/2007
TITLE: MANIPULATING SCHEMATIZED DATA IN A DATABASE

APPLICATION NUMBER: 11053968 FILING DATE: 02/09/2005
PATENT NUMBER: 7940686 ISSUE DATE: 05/10/2011
TITLE: NETWORK PERFORMANCE TUNER

APPLICATION NUMBER: 11077265 FILING DATE: 03/10/2005
PATENT NUMBER: 7792931 ISSUE DATE: 09/07/2010
TITLE: MODEL-BASED SYSTEM PROVISIONING

APPLICATION NUMBER: 11087925 FILING DATE: 03/23/2005
PATENT NUMBER: 7225296 ISSUE DATE: 05/29/2007
TITLE: MULTIPLE-LEVEL PERSISTED TEMPLATE CACHING

APPLICATION NUMBER: 11088402 FILING DATE: 03/24/2005
PATENT NUMBER: 7313652 ISSUE DATE: 12/25/2007
TITLE: MULTI-LEVEL PERSISTED TEMPLATE CACHING

APPLICATION NUMBER: 11097634 FILING DATE: 04/01/2005
PATENT NUMBER: 7899788 ISSUE DATE: 03/01/2011
TITLE: USING A DATA PROTECTION SERVER TO BACKUP AND RESTORE DATA ON
VIRTUAL SERVERS

APPLICATION NUMBER: 11107339 FILING DATE: 04/15/2005
PATENT NUMBER: 7797147 ISSUE DATE: 09/14/2010
TITLE: MODEL-BASED SYSTEM MONITORING

APPLICATION NUMBER: 11107419 FILING DATE: 04/15/2005
PATENT NUMBER: 7802144 ISSUE DATE: 09/21/2010
TITLE: MODEL-BASED SYSTEM MONITORING

APPLICATION NUMBER: 11107420 FILING DATE: 04/15/2005
PATENT NUMBER: 8489728 ISSUE DATE: 07/16/2013
TITLE: MODEL-BASED SYSTEM MONITORING

APPLICATION NUMBER: 11165755 FILING DATE: 06/23/2005
PATENT NUMBER: 7831820 ISSUE DATE: 11/09/2010
TITLE: SYSTEM AND METHOD FOR CONVERTING A TARGET COMPUTING DEVICE TO A
VIRTUAL MACHINE IN RESPONSE TO A DETECTED EVENT

APPLICATION NUMBER: 11169502 FILING DATE: 06/29/2005
PATENT NUMBER: 7890951 ISSUE DATE: 02/15/2011
TITLE: MODEL-BASED PROVISIONING OF TEST ENVIRONMENTS

APPLICATION NUMBER: 11169973 FILING DATE: 06/29/2005
PATENT NUMBER: 8549513 ISSUE DATE: 10/01/2013
TITLE: MODEL-BASED VIRTUAL SYSTEM PROVISIONING

APPLICATION NUMBER: 11170700 FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: MODEL-BASED SYSTEM MANAGEMENT

APPLICATION NUMBER: 11197551 FILING DATE: 08/05/2005
PATENT NUMBER: 7446894 ISSUE DATE: 11/04/2008
TITLE: SYNCHRONIZATION OF PLUGINS

APPLICATION NUMBER: 11222514 FILING DATE: 09/08/2005
PATENT NUMBER: 7684964 ISSUE DATE: 03/23/2010
TITLE: MODEL AND SYSTEM STATE SYNCHRONIZATION

APPLICATION NUMBER: 11228739 FILING DATE: 09/16/2005
PATENT NUMBER: 8244812 ISSUE DATE: 08/14/2012
TITLE: OUTSOURCING OF EMAIL HOSTING SERVICES

APPLICATION NUMBER: 11228768 FILING DATE: 09/16/2005
PATENT NUMBER: 8234340 ISSUE DATE: 07/31/2012
TITLE: OUTSOURCING OF INSTANT MESSAGING HOSTING SERVICES

APPLICATION NUMBER: 11228926 FILING DATE: 09/16/2005
PATENT NUMBER: 7987251 ISSUE DATE: 07/26/2011
TITLE: VALIDATION OF DOMAIN NAME CONTROL

APPLICATION NUMBER: 11229083 FILING DATE: 09/16/2005
PATENT NUMBER: 7925786 ISSUE DATE: 04/12/2011
TITLE: HOSTING OF NETWORK-BASED SERVICES

APPLICATION NUMBER: 11252528 FILING DATE: 10/17/2005
PATENT NUMBER: 7194386 ISSUE DATE: 03/20/2007
TITLE: AUTOMATED COLLECTION OF INFORMATION

APPLICATION NUMBER: 11270014 FILING DATE: 11/09/2005
PATENT NUMBER: 7941418 ISSUE DATE: 05/10/2011
TITLE: DYNAMIC CORPUS GENERATION

APPLICATION NUMBER: 11274488 FILING DATE: 11/15/2005
PATENT NUMBER: 7975059 ISSUE DATE: 07/05/2011
TITLE: GENERIC APPLICATION LEVEL PROTOCOL ANALYZER

APPLICATION NUMBER: 11276608 FILING DATE: 03/07/2006
PATENT NUMBER: 7574343 ISSUE DATE: 08/11/2009
TITLE: SYSTEM AND METHOD FOR LOGICAL MODELING OF DISTRIBUTED COMPUTER SYSTEMS

APPLICATION NUMBER: 11321162 FILING DATE: 12/29/2005
PATENT NUMBER: 7630877 ISSUE DATE: 12/08/2009
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: 11321280 FILING DATE: 12/29/2005
PATENT NUMBER: 7200530 ISSUE DATE: 04/03/2007
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED
DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: 11324062 FILING DATE: 12/30/2005
PATENT NUMBER: 7162509 ISSUE DATE: 01/09/2007
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED
DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: 11346807 FILING DATE: 02/03/2006
PATENT NUMBER: 7689921 ISSUE DATE: 03/30/2010
TITLE: USER INTERFACE FOR MANAGING MULTIPLE NETWORK RESOURCES

APPLICATION NUMBER: 11362807 FILING DATE: 02/28/2006
PATENT NUMBER: 7882215 ISSUE DATE: 02/01/2011
TITLE: SYSTEM AND METHOD FOR IMPLEMENTING POLLING AGENTS IN A CLIENT
MANAGEMENT TOOL

APPLICATION NUMBER: 11372545 FILING DATE: 03/10/2006
PATENT NUMBER: 7925975 ISSUE DATE: 04/12/2011
TITLE: SEARCHING FOR COMMANDS TO EXECUTE IN APPLICATIONS

APPLICATION NUMBER: 11379964 FILING DATE: 04/24/2006
PATENT NUMBER: ISSUE DATE:
TITLE: PROCESS ENCODING

APPLICATION NUMBER: 11379968 FILING DATE: 04/24/2006
PATENT NUMBER: 9354904 ISSUE DATE: 05/31/2016
TITLE: APPLYING PACKAGES TO CONFIGURE SOFTWARE STACKS

APPLICATION NUMBER: 11379973 FILING DATE: 04/24/2006
PATENT NUMBER: 7873940 ISSUE DATE: 01/18/2011
TITLE: PROVIDING PACKAGES FOR CONFIGURING SOFTWARE STACKS

APPLICATION NUMBER: 11379974 FILING DATE: 04/24/2006
PATENT NUMBER: 7971187 ISSUE DATE: 06/28/2011
TITLE: CONFIGURABLE SOFTWARE STACK

APPLICATION NUMBER: 11400556 FILING DATE: 04/07/2006
PATENT NUMBER: 7711688 ISSUE DATE: 05/04/2010
TITLE: CUSTOMIZATION OF PROCESS LOGIC IN A SOFTWARE SYSTEM

APPLICATION NUMBER: 11401825 FILING DATE: 04/11/2006
PATENT NUMBER: 7584207 ISSUE DATE: 09/01/2009
TITLE: CUSTOMIZATION OF METADATA DESCRIBING OBJECTS IN A COMPUTING
ENVIRONMENT

APPLICATION NUMBER: 11404361 FILING DATE: 04/14/2006
PATENT NUMBER: 8015563 ISSUE DATE: 09/06/2011
TITLE: MANAGING VIRTUAL MACHINES WITH SYSTEM-WIDE POLICIES

APPLICATION NUMBER: 11427041 FILING DATE: 06/28/2006
PATENT NUMBER: ISSUE DATE:
TITLE: MODEL-BASED POLICY APPLICATION

APPLICATION NUMBER: 11518672 FILING DATE: 09/11/2006
PATENT NUMBER: 7895209 ISSUE DATE: 02/22/2011
TITLE: PRESENTATION OF INFORMATION BASED ON CURRENT ACTIVITY

APPLICATION NUMBER: 11598609 FILING DATE: 11/13/2006
PATENT NUMBER: 7472040 ISSUE DATE: 12/30/2008
TITLE: AUTOMATED COLLECTION OF INFORMATION

APPLICATION NUMBER: 11614466 FILING DATE: 12/21/2006
PATENT NUMBER: 7457984 ISSUE DATE: 11/25/2008
TITLE: METHOD AND SYSTEM FOR ROLLBACK-FREE FAILURE RECOVERY OF
MULTI-STEP PROCEDURES

APPLICATION NUMBER: 11621815 FILING DATE: 01/10/2007
PATENT NUMBER: ISSUE DATE:
TITLE: REALTIME WEB PAGE SCRAPPING AND VISUAL REPRESENTATION OF
ASSOCIATED CLICKTHROUGH AND IMPRESSION DATA ARCHITECHTURE

APPLICATION NUMBER: 11622978 FILING DATE: 01/12/2007
PATENT NUMBER: 7689676 ISSUE DATE: 03/30/2010
TITLE: MODEL-BASED POLICY APPLICATION

APPLICATION NUMBER: 11626613 FILING DATE: 01/24/2007
PATENT NUMBER: 7428736 ISSUE DATE: 09/23/2008
TITLE: FRAMEWORK FOR ORDERED HANDLING OF INFORMATION

APPLICATION NUMBER: 11627344 FILING DATE: 01/25/2007
PATENT NUMBER: 7313727 ISSUE DATE: 12/25/2007
TITLE: ADAPTIVE RECOVERY FROM SYSTEM FAILURE FOR APPLICATION INSTANCES
THAT GOVERN MESSAGE TRANSACTIONS

APPLICATION NUMBER: 11681535 FILING DATE: 03/02/2007
PATENT NUMBER: 7973957 ISSUE DATE: 07/05/2011
TITLE: GENERIC INTERFACE

APPLICATION NUMBER: 11693369 FILING DATE: 03/29/2007
PATENT NUMBER: 10089210 ISSUE DATE: 10/02/2018
TITLE: AUTO-GENERATION OF PROVIDER FUNCTIONALITY

APPLICATION NUMBER: 11701125 FILING DATE: 02/01/2007
PATENT NUMBER: 8370743 ISSUE DATE: 02/05/2013
TITLE: SEARCHING COMMAND ENHANCEMENTS

APPLICATION NUMBER: 11754865 FILING DATE: 05/29/2007
PATENT NUMBER: 7664023 ISSUE DATE: 02/16/2010
TITLE: DYNAMIC PROTOCOL CONSTRUCTION

APPLICATION NUMBER: 11767370 FILING DATE: 06/22/2007
PATENT NUMBER: 7925773 ISSUE DATE: 04/12/2011
TITLE: VIRTUAL FORMAT FOR THE STORAGE OF STREAMING DATA

APPLICATION NUMBER: 11836418 FILING DATE: 08/09/2007
PATENT NUMBER: ISSUE DATE:
TITLE: MODEL-BASED POLICY APPLICATION

APPLICATION NUMBER: 11955236 FILING DATE: 12/12/2007
PATENT NUMBER: 7600153 ISSUE DATE: 10/06/2009
TITLE: ADAPTIVE RECOVERY FROM SYSTEM FAILURE FOR APPLICATION INSTANCES
THAT GOVERN MESSAGE TRANSACTIONS

APPLICATION NUMBER: 12039703 FILING DATE: 02/28/2008
PATENT NUMBER: 8015139 ISSUE DATE: 09/06/2011
TITLE: INFERRING CANDIDATES THAT ARE POTENTIALLY RESPONSIBLE FOR
USER-PERCEPTIBLE NETWORK PROBLEMS

APPLICATION NUMBER: 12039714 FILING DATE: 02/28/2008
PATENT NUMBER: 8443074 ISSUE DATE: 05/14/2013
TITLE: CONSTRUCTING AN INFERENCE GRAPH FOR A NETWORK

APPLICATION NUMBER: 12043487 FILING DATE: 03/06/2008
PATENT NUMBER: 8055649 ISSUE DATE: 11/08/2011
TITLE: SCALED MANAGEMENT SYSTEM

APPLICATION NUMBER: 12143021 FILING DATE: 06/20/2008
PATENT NUMBER: 8060920 ISSUE DATE: 11/15/2011
TITLE: GENERATING AND CHANGING CREDENTIALS OF A SERVICE ACCOUNT

APPLICATION NUMBER: 12163372 FILING DATE: 06/27/2008
PATENT NUMBER: 7930760 ISSUE DATE: 04/19/2011
TITLE: CENTRALIZED ENFORCEMENT OF NAME-BASED COMPUTER SYSTEM SECURITY
RULES

APPLICATION NUMBER: 12342169 FILING DATE: 12/23/2008
PATENT NUMBER: 8245223 ISSUE DATE: 08/14/2012
TITLE: NETWORKED DEPLOYMENT OF MULTI-APPLICATION CUSTOMIZATIONS

APPLICATION NUMBER: 12356974 FILING DATE: 01/21/2009
PATENT NUMBER: 8199131 ISSUE DATE: 06/12/2012
TITLE: SYNCHRONIZATION OF PLUGINS

APPLICATION NUMBER: 12392902 FILING DATE: 02/25/2009
PATENT NUMBER: 7941551 ISSUE DATE: 05/10/2011
TITLE: TUNNELING OF REMOTE DESKTOP SESSIONS THROUGH FIREWALLS

APPLICATION NUMBER: 12481018 FILING DATE: 06/09/2009
PATENT NUMBER: 7908125 ISSUE DATE: 03/15/2011
TITLE: ARCHITECTURE FOR AUTOMATING ANALYTICAL VIEW OF BUSINESS
APPLICATIONS

APPLICATION NUMBER: 12713195 FILING DATE: 02/26/2010
PATENT NUMBER: 8024611 ISSUE DATE: 09/20/2011
TITLE: AUTOMATED LEARNING OF FAILURE RECOVERY POLICIES

APPLICATION NUMBER: 12717146 FILING DATE: 03/04/2010
PATENT NUMBER: 8468542 ISSUE DATE: 06/18/2013
TITLE: VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB
APPLICATIONS

APPLICATION NUMBER: 12917352 FILING DATE: 11/01/2010
PATENT NUMBER: 8924964 ISSUE DATE: 12/30/2014
TITLE: DYNAMIC ALLOCATION AND ASSIGNMENT OF VIRTUAL ENVIRONMENT

APPLICATION NUMBER: 13015570 FILING DATE: 01/27/2011
PATENT NUMBER: 8498985 ISSUE DATE: 07/30/2013
TITLE: PRESENTATION OF INFORMATION BASED ON CURRENT ACTIVITY

APPLICATION NUMBER: 13021613 FILING DATE: 02/04/2011
PATENT NUMBER: 8930315 ISSUE DATE: 01/06/2015
TITLE: USING A DATA PROTECTION SERVER TO BACKUP AND RESTORE DATA ON
VIRTUAL SERVERS

APPLICATION NUMBER: 13112806 FILING DATE: 05/20/2011
PATENT NUMBER: 8213027 ISSUE DATE: 07/03/2012
TITLE: GENERIC INTERFACE

APPLICATION NUMBER: 13243816 FILING DATE: 09/23/2011
PATENT NUMBER: 8666967 ISSUE DATE: 03/04/2014
TITLE: SCALED MANAGEMENT SYSTEM

APPLICATION NUMBER: 13487587 FILING DATE: 06/04/2012
PATENT NUMBER: 8400665 ISSUE DATE: 03/19/2013
TITLE: GENERIC INTERFACE

APPLICATION NUMBER: 13732520 FILING DATE: 01/02/2013
PATENT NUMBER: 9632650 ISSUE DATE: 04/25/2017
TITLE: COMMAND SEARCHING ENHANCEMENTS

APPLICATION NUMBER: 13918900 FILING DATE: 06/14/2013
PATENT NUMBER: 8839265 ISSUE DATE: 09/16/2014
TITLE: VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB
APPLICATIONS

APPLICATION NUMBER: 13942536 FILING DATE: 07/15/2013
PATENT NUMBER: ISSUE DATE:
TITLE: MODEL-BASED SYSTEM MONITORING

APPLICATION NUMBER: 14042619 FILING DATE: 09/30/2013
PATENT NUMBER: 9317270 ISSUE DATE: 04/19/2016
TITLE: MODEL-BASED VIRTUAL SYSTEM PROVISIONING

APPLICATION NUMBER: 14574268 FILING DATE: 12/17/2014
PATENT NUMBER: 9710297 ISSUE DATE: 07/18/2017
TITLE: DYNAMIC ALLOCATION AND ASSIGNMENT OF VIRTUAL ENVIRONMENT

APPLICATION NUMBER: 14857480 FILING DATE: 09/17/2015
PATENT NUMBER: 9811368 ISSUE DATE: 11/07/2017
TITLE: MODEL-BASED VIRTUAL SYSTEM PROVISIONING

APPLICATION NUMBER: 15089428 FILING DATE: 04/01/2016
PATENT NUMBER: ISSUE DATE:
TITLE: APPLYING PACKAGES TO CONFIGURE SOFTWARE STACKS

APPLICATION NUMBER: 15458337 FILING DATE: 03/14/2017
PATENT NUMBER: ISSUE DATE:
TITLE: COMMAND SEARCHING ENHANCEMENTS

APPLICATION NUMBER: 15721338 FILING DATE: 09/29/2017
PATENT NUMBER: ISSUE DATE:
TITLE: MODEL-BASED VIRTUAL SYSTEM PROVISIONING

APPLICATION NUMBER: 60255041 FILING DATE: 12/11/2000
PATENT NUMBER: ISSUE DATE:
TITLE: SCHEMA DRIVEN SEARCH

APPLICATION NUMBER: 60255042	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: QUICK SEARCH	
APPLICATION NUMBER: 60255043	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: MANAGEMENT PORTAL EXPLORER	
APPLICATION NUMBER: 60255044	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: FRAMEWORK FOR WEB BASED INTEGRATION OF MANAGEMENT APPLICATIONS	
APPLICATION NUMBER: 60255050	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: OBJECT PROPERTY REPRESENTATION	
APPLICATION NUMBER: 60255051	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: SCHEMA DRIVEN USER TASK ARCHITECTURE	
APPLICATION NUMBER: 60255052	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: MMP MODULES - QUERY DRIVEN MODEL FOR LOCATING OBJECTS & TASKS	
APPLICATION NUMBER: 60255153	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: SEARCH ENGINE EXTENSIBILITY	
APPLICATION NUMBER: 60255238	FILING DATE: 12/11/2000
PATENT NUMBER:	ISSUE DATE:
TITLE: SCHEMA DRIVEN PROPERTY PAGES	
APPLICATION NUMBER: 60361520	FILING DATE: 03/04/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: WEB GARDENS	
APPLICATION NUMBER: 60366794	FILING DATE: 03/22/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: ASP PERSISTED TEMPLATE CACHE	
APPLICATION NUMBER: 60366795	FILING DATE: 03/22/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: METHODS AND SYSTEMS FOR ENSURING HEALTH AND/OR AVAILABILITY OF WEB APPLICATIONS	
APPLICATION NUMBER: 60367013	FILING DATE: 03/22/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: WEB SERVER ARCHITECTURE SPLIT INTO PROCESSES BASED ON FUNCTIONALITY	
APPLICATION NUMBER: 60452736	FILING DATE: 03/06/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS	
APPLICATION NUMBER: 60513591	FILING DATE: 10/24/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: TABLET PLATFORM CONTROLS AND APIS	

APPLICATION NUMBER: 60893348 FILING DATE: 03/06/2007
PATENT NUMBER: ISSUE DATE:
TITLE: CONSTRUCTING AN INFERENCE GRAPH

APPLICATION NUMBER: 60893350 FILING DATE: 03/06/2007
PATENT NUMBER: ISSUE DATE:
TITLE: INFERRING POTENTIALLY-RESPONSIBLE CANDIDATES

APPLICATION NUMBER: 61041425 FILING DATE: 04/01/2008
PATENT NUMBER: ISSUE DATE:
TITLE: CENTRALIZED ENFORCEMENT OF NAME-BASED COMPUTER SYSTEM SECURITY RULES

APPLICATION NUMBER: 90008546 FILING DATE: 05/03/2007
PATENT NUMBER: ISSUE DATE: 05/26/2009
TITLE: CUSTOMIZATION OF PROCESS LOGIC IN A SOFTWARE SYSTEM

APPLICATION NUMBER: FILING DATE: 07/12/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004022378
TITLE: MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS

APPLICATION NUMBER: FILING DATE: 07/27/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004024134
TITLE: SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES

APPLICATION NUMBER: FILING DATE: 07/12/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004022275
TITLE: RULES DEFINITION LANGUAGE

APPLICATION NUMBER: FILING DATE: 07/12/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004022097
TITLE: USING URI'S TO IDENTIFY MULTIPLE INSTANCES WITH COMMON SCHEMA

APPLICATION NUMBER: FILING DATE: 03/08/2006
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2006008200
TITLE: USING A DATA PROTECTION SERVER TO BACKUP AND RESTORE DATA ON VIRTUAL SERVERS

APPLICATION NUMBER: FILING DATE: 07/22/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004023631
TITLE: SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM THE EXTRANET

APPLICATION NUMBER: FILING DATE: 03/02/2011
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2011026928
TITLE: VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB APPLICATIONS

APPLICATION NUMBER: FILING DATE: 12/11/2001
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2001048014
TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES

APPLICATION NUMBER: FILING DATE: 02/26/2009
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2009035297
TITLE: CENTRALIZED ENFORCEMENT OF NAME-BASED COMPUTER SYSTEM SECURITY
RULES

APPLICATION NUMBER: FILING DATE: 02/23/2007
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2007004699
TITLE: SEARCHING FOR COMMANDS TO EXECUTE IN APPLICATIONS

APPLICATION NUMBER: FILING DATE: 07/28/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004024194
TITLE: REAL-TIME INKING

APPLICATION NUMBER: FILING DATE: 07/22/2004
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2004023607
TITLE: A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY

APPLICATION NUMBER: FILING DATE: 03/08/2007
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US2007005798
TITLE: PROCESS ENCODING

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)*Electronic Patent Assignment System***Confirmation Receipt**

Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICROSOFT TECHNOLOGY LICENSING, LLC	11/15/2018
RECEIVING PARTY DATA	
Name:	SERVICENOW, INC.
Street Address:	2225 LAWSON LANE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 193	
Property Type	Number
Patent Number:	6792455
Patent Number:	7035924
Patent Number:	7882215
Patent Number:	6775699
Application Number:	10902383

PATENT

Patent Number:	7523180
Application Number:	60893348
Patent Number:	8443074
Patent Number:	7720906
Patent Number:	8468542
Patent Number:	8839265
Patent Number:	7577934
Patent Number:	8924964
Patent Number:	9710297
Patent Number:	7310634
Patent Number:	6917935
Patent Number:	7313561
Patent Number:	7546226
Patent Number:	7275024
Patent Number:	7908125
Patent Number:	7634478
Patent Number:	7912820
Patent Number:	7216169
Patent Number:	7174479
Patent Number:	7457984
Patent Number:	7428736
Patent Number:	7199885
Patent Number:	7973957
Patent Number:	7446894
Patent Number:	7453585
Patent Number:	7016055
Patent Number:	8400665
Patent Number:	7436535
Patent Number:	7463371
Patent Number:	7515139
Patent Number:	7450261
Patent Number:	7239401
Patent Number:	8213027
Application Number:	60513591
Patent Number:	7212296
Patent Number:	7443531
Patent Number:	8199131

PATENT

REEL: 049797 FRAME: 0144

Patent Number:	7511836
Patent Number:	7240069
Patent Number:	7266548
Patent Number:	7940686
Patent Number:	7925786
Patent Number:	8234340
Patent Number:	8244812
Patent Number:	7987251
Patent Number:	7925975
Patent Number:	8370743
Application Number:	15458337
Patent Number:	9632650
Patent Number:	7296232
Patent Number:	7895209
Patent Number:	8498985
Patent Number:	8055649
Patent Number:	8666967
Application Number:	61041425
Patent Number:	7930760
Patent Number:	8060920
Patent Number:	7941551
Patent Number:	7904929
Patent Number:	8024611
Patent Number:	7213175
Patent Number:	7895574
Patent Number:	7181473
Patent Number:	7188342
Patent Number:	7181500
Patent Number:	7225362
Patent Number:	7594230
Application Number:	60366795
Application Number:	60367013
Patent Number:	7228551
Application Number:	60361520
Patent Number:	7430738
Patent Number:	7231377
Patent Number:	7620704

PATENT

REEL: 049797 FRAME 0145

Patent Number:	7454483
Patent Number:	7260535
Patent Number:	7233947
Patent Number:	6754657
Patent Number:	7216133
Patent Number:	7191364
Patent Number:	7299228
Patent Number:	7237184
Application Number:	11621815
Patent Number:	7181681
Patent Number:	7216255
Patent Number:	7600153
Patent Number:	7313727
Patent Number:	7631071
Patent Number:	7228312
Patent Number:	7191186
Patent Number:	7194386
Patent Number:	7472040
Patent Number:	7941418
Patent Number:	7975059
Patent Number:	7925773
Application Number:	60255238
Patent Number:	7299274
Application Number:	60255044
Application Number:	60255043
Application Number:	60255153
Application Number:	60255042
Application Number:	60255041
Patent Number:	7340446
Patent Number:	7689921
Patent Number:	6996778
Application Number:	60255052
Application Number:	60255050
Patent Number:	7584278
Application Number:	60255051
Patent Number:	7308440
Patent Number:	6950990

PATENT

REEL: 049797 FRAME: 0146

Application Number:	60366794
Patent Number:	7313652
Patent Number:	7225296
Patent Number:	6915384
Patent Number:	7124400
Application Number:	11008730
Patent Number:	7155380
Patent Number:	6907395
Patent Number:	7574343
Patent Number:	7113900
Application Number:	11379964
Patent Number:	7971187
Patent Number:	9354904
Patent Number:	7873940
Application Number:	15089428
Patent Number:	8015563
Application Number:	11427041
Application Number:	11836418
Patent Number:	7689676
Application Number:	13942536
Patent Number:	8489728
Patent Number:	7802144
Patent Number:	7797147
Patent Number:	7475125
Patent Number:	7831820
Application Number:	60893350
Patent Number:	8015139
Patent Number:	7159016
Patent Number:	7058953
Patent Number:	7664023
Patent Number:	7243157
Patent Number:	8930315
Patent Number:	7899788
Patent Number:	8245223
Application Number:	90008546
Patent Number:	7711688
Patent Number:	7080089

PATENT

REEL: 049797 FRAME: 0147

Patent Number:	7085752
Patent Number:	7584207
Patent Number:	7730446
Patent Number:	7676560
Patent Number:	7103874
Patent Number:	7539974
Patent Number:	7712085
Patent Number:	7506307
Patent Number:	7765540
Patent Number:	7630877
Patent Number:	7200530
Patent Number:	7162509
Patent Number:	7072807
Application Number:	60452736
Patent Number:	8122106
Patent Number:	7765501
Patent Number:	7890543
Patent Number:	7886041
Application Number:	11170700
Patent Number:	7792931
Patent Number:	7890951
Patent Number:	7684964
Application Number:	11693369
Patent Number:	9317270
Patent Number:	9811368
Application Number:	15721338
Patent Number:	8549513
PCT Number:	US2004022378
PCT Number:	US2004024134
PCT Number:	US2004022275
PCT Number:	US2004022097
PCT Number:	US2006008200
PCT Number:	US2004023631
PCT Number:	US2007005798
PCT Number:	US2001048014
PCT Number:	US2009035297
PCT Number:	US2007004699

PATENT

PCT Number:	US2004024194
PCT Number:	US2004023607
PCT Number:	US2011026928

CORRESPONDENCE DATA**Fax Number:** (281)970-4503**Phone:** 2819704545**Email:** docket@fyiplaw.com*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.***Correspondent Name:** MICHAEL G. FLETCHER**Address Line 1:** P.O. BOX 692289**Address Line 4:** HOUSTON, TEXAS 77269**ATTORNEY DOCKET
NUMBER:**

SNPA:0002(V3)-MICROSOFT

NAME OF SUBMITTER:

MICHAEL G. FLETCHER

Signature:

/Michael G. Fletcher/

Date:

11/27/2018

Total Attachments: 32

source=2018-11-15 SN-MSFT Executed Assignment#page1.tif
source=2018-11-15 SN-MSFT Executed Assignment#page2.tif
source=2018-11-15 SN-MSFT Executed Assignment#page3.tif
source=2018-11-15 SN-MSFT Executed Assignment#page4.tif
source=2018-11-15 SN-MSFT Executed Assignment#page5.tif
source=2018-11-15 SN-MSFT Executed Assignment#page6.tif
source=2018-11-15 SN-MSFT Executed Assignment#page7.tif
source=2018-11-15 SN-MSFT Executed Assignment#page8.tif
source=2018-11-15 SN-MSFT Executed Assignment#page9.tif
source=2018-11-15 SN-MSFT Executed Assignment#page10.tif
source=2018-11-15 SN-MSFT Executed Assignment#page11.tif
source=2018-11-15 SN-MSFT Executed Assignment#page12.tif
source=2018-11-15 SN-MSFT Executed Assignment#page13.tif
source=2018-11-15 SN-MSFT Executed Assignment#page14.tif
source=2018-11-15 SN-MSFT Executed Assignment#page15.tif
source=2018-11-15 SN-MSFT Executed Assignment#page16.tif
source=2018-11-15 SN-MSFT Executed Assignment#page17.tif
source=2018-11-15 SN-MSFT Executed Assignment#page18.tif
source=2018-11-15 SN-MSFT Executed Assignment#page19.tif
source=2018-11-15 SN-MSFT Executed Assignment#page20.tif
source=2018-11-15 SN-MSFT Executed Assignment#page21.tif
source=2018-11-15 SN-MSFT Executed Assignment#page22.tif
source=2018-11-15 SN-MSFT Executed Assignment#page23.tif
source=2018-11-15 SN-MSFT Executed Assignment#page24.tif
source=2018-11-15 SN-MSFT Executed Assignment#page25.tif
source=2018-11-15 SN-MSFT Executed Assignment#page26.tif
source=2018-11-15 SN-MSFT Executed Assignment#page27.tif
source=2018-11-15 SN-MSFT Executed Assignment#page28.tif
source=2018-11-15 SN-MSFT Executed Assignment#page29.tif
source=2018-11-15 SN-MSFT Executed Assignment#page30.tif

PATENT**REEL: 049797 FRAME: 0149**

source=2018-11-15 SN-MSFT Executed Assignment#page31.tif
source=2018-11-15 SN-MSFT Executed Assignment#page32.tif

RECEIPT INFORMATION

EPAS ID: PAT5257605
Receipt Date: 11/29/2018

[Return to home page](#)

| [HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

PATENT

Exhibit D

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, Microsoft Technology Licensing, LLC, having an office at One Microsoft Way, Redmond, WA 98052 ("**Assignor**"), does hereby sell, assign, transfer and convey unto ServiceNow, Inc. a Delaware corporation having a primary place of business at 2225 Lawson Lane, Santa Clara, California 95054 ("**Assignee**") or its designees, all of Assignor's entire right, title and interest in and to the patents and patent applications listed in Table 1 below along with all worldwide reissues, reexaminations, continuations, parents, continuations-in-part, divisionals, extensions, foreign counterparts to all of the foregoing patents and patent applications, and all patents and patent applications claiming priority to or from, or claiming common priority with, any and all of the foregoing worldwide, but not including patents and patent applications listed in Table 2 below (collectively "**Patent Rights**"). For the avoidance of doubt, the patents and patent applications listed in Table 2 below are not Patent Rights and are not being sold, assigned, transferred or conveyed to ServiceNow.

Table 1:

Patent Number	Application Number	Country	Filing Date	Grant Date	Title
6792455	09/561277	United States Of America	28 Apr 2000	14 Sep 2004	System and method for implementing polling agents in a client management tool
1150212	01110319.9	European Procedure (Patents)	26 Apr 2001	22 May 2013	System and method for implementing polling agents in a client management tool
5208337	2001-133475	Japan	27 Apr 2001	01 Mar 2013	COMPUTER SYSTEM FOR MOUNTING POLLING AGENT IN CLIENT MANAGEMENT TOOL AND ITS METHOD
7035924	10/902380	United States Of America	30 Jul 2004	25 Apr 2006	System and method for implementing polling agents in a client management tool
7882215	11/362807	United States Of America	28 Feb 2006	01 Feb 2011	System and method for implementing polling agents in a client management tool
2315125	10012992.3	European Procedure (Patents)	26 Apr 2001	12 Oct 2016	System And Method For Implementing Polling Agents In A Client Management Tool
EP1150212	EP01110319.9	France	26 Apr 2001	22 May 2013	System and method for implementing polling agents in a client management tool
60148002.3	01110319.9	Germany	26 Apr 2001	22 May 2013	System and Method for Implementing Polling Agents in a Client Management Tool

502013902 159338	01110319.9	Italy	26 Apr 2001	22 May 2013	System and method for implementing polling agents in a client management tool
1150212	01110319.9	United Kingdom	26 Apr 2001	22 May 2013	System and method for implementing polling agents in a client management tool
2315125	10012992.3	France	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
60150162. 4	10012992.3	Germany	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
2315125	10012992.3	Italy	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
2315125	10012992.3	Netherlan ds	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
2315125	10012992.3	Spain	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
2315125	10012992.3	United Kingdom	26 Apr 2001	12 Oct 2016	System and method for implementing polling agents in a client management tool
6775699	09/561155	United States Of America	28 Apr 2000	10 Aug 2004	System and method for implementing integrated polling functions in a client management tool
	10/902383	United States Of America	30 Jul 2004		System and Method for Implementing Integrated Polling Functi ons in a Client Management Tool
7523180	09/561114	United States Of America	28 Apr 2000	21 Apr 2009	System and method for service chain management in a client management tool
	60/893348	United States Of America	06 Mar 2007		Constructing an Inference Graph
8443074	12/039714	United States Of America	28 Feb 2008	14 May 2013	Constructing an inference graph for a network
7720906	10/721514	United States Of America	24 Nov 2003	18 May 2010	Web service for remote application discovery
1642197	4778900.3	European Procedure (Patents)	22 Jul 2004	25 Mar 2015	A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY

4738344	2006-541121	Japan	22 Jul 2004	13 May 2011	A Web Service for Remote Application Discovery
200480001321.8	200480001321.8	China	22 Jul 2004	23 Feb 2011	Web service method for remote application discovery and computation device
	01825/DELNP/2005	India	22 Jul 2004		A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
	10-2005-7008050	South Korea / Republic of Korea	22 Jul 2004		A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
	2501568	Canada	22 Jul 2004		A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
	2004279168	Australia	22 Jul 2004		A web service for remote application discovery
	PI0406410-0	Brazil	22 Jul 2004		Service of net for the remote discovery of applications
2359314	2005114495	Russian Federation	22 Jul 2004	20 Jun 2009	Web-SERVICE FOR DETECTING REMOTE APPLICATIONS
	PA/a/2005/006620	Mexico	22 Jul 2004		A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY.
	PCT/US04/23607	International Procedure	22 Jul 2004		A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
1642197	4778900.3	France	22 Jul 2004	25 Mar 2015	A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
602004046870.3	4778900.3	Germany	22 Jul 2004	25 Mar 2015	A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
1642197	4778900.3	Ireland	22 Jul 2004	25 Mar 2015	A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
1642197	4778900.3	United Kingdom	22 Jul 2004	25 Mar 2015	A WEB SERVICE FOR REMOTE APPLICATION DISCOVERY
8468542	12/717146	United States Of America	04 Mar 2010	18 Jun 2013	Virtual environment for server applications, such as web applications
	PCT/US11/26928	International Procedure	02 Mar 2011		VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB APPLICATIONS
201180012004.6	201180012004.6	China	02 Mar 2011	25 Nov 2015	Virtual environment for server applications, such as WEB applications
	11751323.4	European Procedure (Patents)	02 Mar 2011		VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB APPLICATIONS

5726212	2012-556226	Japan	02 Mar 2011	10 Apr 2015	Virtual Environment for Server Applications, Such As Web Applications
8839265	13/918900	United States Of America	14 Jun 2013	16 Sep 2014	VIRTUAL ENVIRONMENT FOR SERVER APPLICATIONS, SUCH AS WEB APPLICATIONS
7577934	10/389686	United States Of America	12 Mar 2003	18 Aug 2009	Framework for modeling and providing runtime behavior for business software applications
	4005191.4	European Procedure (Patents)	04 Mar 2004		Framework for supporting business software applications
	2004-069826	Japan	11 Mar 2004		FRAMEWORK FOR SUPPORTING BUSINESS SOFTWARE APPLICATION
8924964	12/917352	United States Of America	01 Nov 2010	30 Dec 2014	Dynamic Allocation and Assignment of Virtual Environment
9710297	14/574268	United States Of America	17 Dec 2014	18 Jul 2017	Dynamic Allocation and Assignment of Virtual Environment
7310634	11/049153	United States Of America	02 Feb 2005	18 Dec 2007	Manipulating schematized data in a database
6917935	10/184223	United States Of America	26 Jun 2002	12 Jul 2005	Manipulating schematized data in a database
7313561	10/727176	United States Of America	03 Dec 2003	25 Dec 2007	Model definition schema
7546226	10/748391	United States Of America	30 Dec 2003	09 Jun 2009	Architecture for automating analytical view of business applications
	2004-069829	Japan	11 Mar 2004		AUTOMATIC GENERATION OF DIMENSIONAL MODEL FOR BUSINESS ANALYSIS FROM OBJECT MODEL FOR ONLINE TRANSACTION PROCESSING
7275024	10/386633	United States Of America	12 Mar 2003	25 Sep 2007	Automatic generation of a dimensional model for business analytics from an object model for online transaction processing
7908125	12/481018	United States Of America	09 Jun 2009	15 Mar 2011	Architecture for automating analytical view of business applications
	04005846.3	European Procedure (Patents)	11 Mar 2004		Automatic generation of a dimensional model for online analytical processing (OLAP) from

					an object model for online transaction processing (OLTP)
7634478	10/725665	United States Of America	02 Dec 2003	15 Dec 2009	Metadata driven intelligent data navigation
602004043 075.7	04012761.5	Germany	28 May 2004	21 Aug 2013	Automatic Task Generator Method and System
7912820	10/456904	United States Of America	06 Jun 2003	22 Mar 2011	Automatic task generator method and system
200410063 952.4	20041006395 2.4	China	04 Jun 2004	15 Apr 2009	Automatic task generator method and system
4684578	2004-169085	Japan	07 Jun 2004	18 Feb 2011	AUTOMATIC TASK CREATION METHOD AND SYSTEM
1484695	04012761.5	European Procedure (Patents)	28 May 2004	21 Aug 2013	Automatic task generator method and system
	0932/DEL/200 4	India	24 May 2004		AUTOMATIC TASK GENERATOR METHOD AND SYSTEM
1099152	10-2004-0041101	South Korea / Republic of Korea	05 Jun 2004	20 Dec 2011	METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING TASK FOR OBJECT OF DBMS
1484695	04012761.5	United Kingdom	28 May 2004	21 Aug 2013	Automatic task generator method and system
7216169	10/611486	United States Of America	01 Jul 2003	08 May 2007	Method and system for administering personal computer health by registering multiple service providers and enforcing mutual exclusion rules
7174479	10/659453	United States Of America	10 Sep 2003	06 Feb 2007	Method and system for rollback-free failure recovery of multi-step procedures
7457984	11/614466	United States Of America	21 Dec 2006	25 Nov 2008	Method and system for rollback-free failure recovery of multi-step procedures
1085730	10-2005-7012369	South Korea / Republic of Korea	28 Jul 2004	15 Nov 2011	REAL-TIME INKING
7428736	11/626613	United States Of America	24 Jan 2007	23 Sep 2008	Framework for ordered handling of information
200428713 6	2004287136	Australia	28 Jul 2004	26 Nov 2009	Real-time inking

7199885	10/986779	United States Of America	15 Nov 2004	03 Apr 2007	Generic interface
7973957	11/681535	United States Of America	02 Mar 2007	05 Jul 2011	Generic interface
274055	PA/a/2005/007085	Mexico	28 Jul 2004	10 Feb 2010	REAL-TIME INKING.
7446894	11/197551	United States Of America	05 Aug 2005	04 Nov 2008	Synchronization of plugins
7453585	10/986892	United States Of America	15 Nov 2004	18 Nov 2008	Error notification handling
4698599	2006-536576	Japan	28 Jul 2004	11 Mar 2011	Tablet Platform Controls and API
	PCT/US04/24194	International Procedure	28 Jul 2004		REAL-TIME INKING
200480003260.9	200480003260.9	China	28 Jul 2004	11 Apr 2012	Real-time inking
7016055	10/985912	United States Of America	12 Nov 2004	21 Mar 2006	Synchronization of plugins
	PI0406514-0	Brazil	28 Jul 2004		APPLICATION OF INK IN REAL TIME
	06113019.4	Hong Kong	28 Jul 2004		REAL-TIME INKING
8400665	13/487587	United States Of America	04 Jun 2012	19 Mar 2013	Generic interface
7436535	10/879527	United States Of America	30 Jun 2004	14 Oct 2008	Real-time inking
	0401002894	Thailand	28 Jul 2004		the ink timely.
7463371	10/986882	United States Of America	15 Nov 2004	09 Dec 2008	Ordering of events between different input sources
7515139	10/986801	United States Of America	15 Nov 2004	07 Apr 2009	Display attribute modification
2511395	2511395	Canada	28 Jul 2004	24 Apr 2012	REAL-TIME INKING
2392655	2005120672	Russian Federation	28 Jul 2004	20 Jun 2010	REAL TIME INK APPLICATION

7450261	10/985920	United States Of America	12 Nov 2004	11 Nov 2008	Wet ink
	02668/DELNP/2005	India	28 Jul 2004		REAL-TIME INKING
7239401	10/985923	United States Of America	12 Nov 2004	03 Jul 2007	Framework for ordered handling of information
	04779299.9	European Procedure (Patents)	28 Jul 2004		REAL-TIME INKING
I374368	93122595	Taiwan	28 Jul 2004	11 Oct 2012	Real-time inking
8213027	13/112806	United States Of America	20 May 2011	03 Jul 2012	Generic interface
	60/513591	United States Of America	24 Oct 2003		Tablet Platform Controls and API
2005/04760	2005/04760	South Africa	28 Jul 2004	29 Nov 2006	Tablet Platform Controls and API
7212296	10/986826	United States Of America	15 Nov 2004	01 May 2007	Use of queues
7443531	10/986803	United States Of America	15 Nov 2004	28 Oct 2008	Multiple queues handling information
8199131	12/356974	United States Of America	21 Jan 2009	12 Jun 2012	Synchronization of plugins
7511836	10/986841	United States Of America	15 Nov 2004	31 Mar 2009	Memory management in a multi-threaded environment
MY-139593-A	PI20043020	Malaysia	28 Jul 2004	30 Oct 2009	REAL TIME INKING
7240069	10/714186	United States Of America	14 Nov 2003	03 Jul 2007	System and method for building a large index
	2510761	Canada	27 Jun 2005		AUTOMATED TAXONOMY GENERATION
	PA/a/2005/007136	Mexico	28 Jun 2005		AUTOMATED TAXONOMY GENERATION.
7266548	10/881893	United States Of America	30 Jun 2004	04 Sep 2007	Automated taxonomy generation

	05105453.4	European Procedure (Patents)	21 Jun 2005		Automated taxonomy generation
	PI0502591-5	Brazil	28 Jun 2005		Automatized generation of taxonomy
	1502/DEL/2005	India	10 Jun 2005		AUTOMATED TAXONOMY GENERATION
4141460	2005-184985	Japan	24 Jun 2005	20 Jun 2008	AUTOMATED CLASSIFICATION GENERATION
	20051008225 5.8	China	30 Jun 2005		Automated taxonomy generation
	10-2005-0056062	South Korea / Republic of Korea	28 Jun 2005		AUTOMATED TAXONOMY GENERATION METHOD
7940686	11/053968	United States Of America	09 Feb 2005	10 May 2011	Network performance tuner
7925786	11/229083	United States Of America	16 Sep 2005	12 Apr 2011	Hosting of network-based services
8234340	11/228768	United States Of America	16 Sep 2005	31 Jul 2012	Outsourcing of instant messaging hosting services
8244812	11/228739	United States Of America	16 Sep 2005	14 Aug 2012	Outsourcing of email hosting services
7987251	11/228926	United States Of America	16 Sep 2005	26 Jul 2011	Validation of domain name control
7925975	11/372545	United States Of America	10 Mar 2006	12 Apr 2011	Searching for commands to execute in applications
2643754	2643754	Canada	23 Feb 2007	07 Apr 2015	SEARCHING FOR COMMANDS TO EXECUTE IN APPLICATIONS
8370743	11/701125	United States Of America	01 Feb 2007	05 Feb 2013	Searching command enhancements
	07751459.4	European Procedure (Patents)	23 Feb 2007		Searching For Commands To Execute In Applications
	2008136383	Russian Federation	23 Feb 2007		Searching For Commands To Execute In Applications
	PCT/US07/04699	International Procedure	23 Feb 2007		SEARCHING FOR COMMANDS TO EXECUTE IN APPLICATIONS

	2007225334	Australia	23 Feb 2007		Searching for commands to execute in applications
	15/458337	United States Of America	14 Mar 2017		COMMAND SEARCHING ENHANCEMENTS
9632650	13/732520	United States Of America	02 Jan 2013	25 Apr 2017	COMMAND SEARCHING ENHANCEMENTS
	2009-500363	Japan	23 Feb 2007		Searching For Commands To Execute In Applications
7296232	10/113240	United States Of America	01 Apr 2002	13 Nov 2007	Calendar control for selection of time periods to filter data
7895209	11/518672	United States Of America	11 Sep 2006	22 Feb 2011	Presentation of information based on current activity
8498985	13/015570	United States Of America	27 Jan 2011	30 Jul 2013	Presentation of information based on current activity
8055649	12/043487	United States Of America	06 Mar 2008	08 Nov 2011	Scaled management system
8666967	13/243816	United States Of America	23 Sep 2011	04 Mar 2014	SCALED MANAGEMENT SYSTEM
	61/041425	United States Of America	01 Apr 2008		Centralized Enforcement of Name-Based Computer System Security Rules
7930760	12/163372	United States Of America	27 Jun 2008	19 Apr 2011	Centralized enforcement of name-based computer system security rules
	PCT/US09/35297	International Procedure	26 Feb 2009		CENTRALIZED ENFORCEMENT OF NAME-BASED COMPUTER SYSTEM SECURITY RULES
8060920	12/143021	United States Of America	20 Jun 2008	15 Nov 2011	Generating and changing credentials of a service account
7941551	12/392902	United States Of America	25 Feb 2009	10 May 2011	Tunneling of remote desktop sessions through firewalls
7904929	10/699616	United States Of America	30 Oct 2003	08 Mar 2011	Log entries
8024611	12/713195	United States Of America	26 Feb 2010	20 Sep 2011	Automated learning of failure recovery policies

7213175	10/043364	United States Of America	09 Jan 2002	01 May 2007	Methods and systems for managing an application's relationship to its run-time environment
7895574	11/034963	United States Of America	14 Jan 2005	22 Feb 2011	System and methods for automatically verifying management packs
7181473	10/293425	United States Of America	12 Nov 2002	20 Feb 2007	Identifying files within a namespace
7188342	09/839784	United States Of America	20 Apr 2001	06 Mar 2007	Server controlled branding of client software deployed over computer networks
7181500	09/883585	United States Of America	18 Jun 2001	20 Feb 2007	System and method for utilizing personal information to customize an application program
7225362	10/377148	United States Of America	28 Feb 2003	29 May 2007	Ensuring the health and availability of web applications
7594230	10/377175	United States Of America	28 Feb 2003	22 Sep 2009	Web server architecture
	60/366795	United States Of America	22 Mar 2002		Methods And Systems For Ensuring Health And/Or Availability Of Web Applications
	60/367013	United States Of America	22 Mar 2002		Web Server Architecture Split Into Processes Based On Functionality
7228551	10/377176	United States Of America	28 Feb 2003	05 Jun 2007	Web garden application pools having a plurality of user-mode web applications
	60/361520	United States Of America	04 Mar 2002		Web Gardens
7430738	09/878950	United States Of America	11 Jun 2001	30 Sep 2008	Methods and arrangements for routing server requests to worker processes based on URL
7231377	10/438180	United States Of America	14 May 2003	12 Jun 2007	Method and apparatus for configuring a server using a knowledge base that defines multiple server roles
7620704	10/611372	United States Of America	30 Jun 2003	17 Nov 2009	Method and apparatus for configuring a server
7454483	10/438290	United States Of America	14 May 2003	18 Nov 2008	Method and apparatus for configuring servers

7260535	10/425985	United States Of America	28 Apr 2003	21 Aug 2007	Web server controls for web enabled recognition and/or audible prompting for call controls
7233947	10/444009	United States Of America	22 May 2003	19 Jun 2007	Timestamping in databases
6754657	09/939180	United States Of America	24 Aug 2001	22 Jun 2004	Time stamping of database records
7216133	10/629254	United States Of America	29 Jul 2003	08 May 2007	Synchronizing logical views independent of physical storage representations
1503313	4015493.2	United Kingdom	01 Jul 2004	23 Aug 2017	Synchronizing logical views independent of physical storage representations
1099202	10-2004-0057574	South Korea / Republic of Korea	23 Jul 2004	20 Dec 2011	SYNCHRONIZATION OF LOGICAL VIEWS INDEPENDENT OF PHYSICAL STORAGE REPRESENTATIONS BETWEEN COMPUTER SYSTEMS
1503313	4015493.2	European Procedure (Patents)	01 Jul 2004	23 Aug 2017	Synchronizing Logical Views Independent Of Physical Storage Representations
1503313	4015493.2	France	01 Jul 2004	23 Aug 2017	Synchronizing logical views independent of physical storage representations
200410059 078.7	20041005907 8.7	China	26 Jul 2004	03 Dec 2008	Synchronizing logical views independent of physical storage representations
1503313	4015493.2	Netherlands	01 Jul 2004	23 Aug 2017	Synchronizing logical views independent of physical storage representations
	1244/DEL/2004	India	05 Jul 2004		SYNCHRONIZING LOGICAL VIEWS INDEPENDENT OF PHYSICAL STORAGE REPRESENTATIONS CON 29 7 2003 USA
4928717	2004-214829	Japan	22 Jul 2004	17 Feb 2012	SYNCHRONIZATION OF LOGICAL VIEW INDEPENDENT OF PHYSICAL STORAGE EXPRESSION
602004051 690.2	4015493.2	Germany	01 Jul 2004	23 Aug 2017	Synchronizing Logical Views Independent Of Physical Storage Representations
7191364	10/713867	United States Of America	14 Nov 2003	13 Mar 2007	Automatic root cause analysis and diagnostics engine
	4026563.9	European Procedure (Patents)	09 Nov 2004		Learning and using generalized string patterns for information extraction

	2004229097	Australia	15 Nov 2004		Learning and using generalized string patterns for information extraction
	PI20044631	Malaysia	11 Nov 2004		Learning And Using Generalized String Patterns For Information Extraction
	PI0404954-3	Brazil	10 Nov 2004		LEARNING AND USING GENERALIZED STANDARDS OF CHAIN FOR EXTRATION OF INFORMATION
	10-2004-0093894	South Korea / Republic of Korea	17 Nov 2004		LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION EXTRACTION
	2004-354479	Japan	07 Dec 2004		LEARNING AND USE OF GENERALIZED STRING PATTERN FOR INFORMATION EXTRACTION
	20041010226 2.5	China	10 Dec 2004		Learning and using generalized string patterns for information extraction
	2362/DEL/2004	India	24 Nov 2004		LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION EXTRACTION
	5110699.8	Hong Kong	09 Nov 2004		LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION EXTRACTION
	2487606	Canada	10 Nov 2004		LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION EXTRACTION
7299228	10/733541	United States Of America	11 Dec 2003	20 Nov 2007	Learning and using generalized string patterns for information extraction
	2004/09064	South Africa	09 Nov 2004		Learning And Using Generalized String Patterns For Information Extraction
	2004132977	Russian Federation	11 Nov 2004		Learning And Using Generalized String Patterns For Information Extraction
	PA/a/2004/011788	Mexico	26 Nov 2004		LEARNING AND USING GENERALIZED STRING PATTERNS FOR INFORMATION EXTRACTION.
	93133116	Taiwan	29 Oct 2004		Learning and using generalized string patterns for information extraction
	401004607	Thailand	19 Nov 2004		Learning And Using Generalized String Patterns For Information Extraction

7237184	10/739714	United States Of America	18 Dec 2003	26 Jun 2007	Data property promotion system and method
	11/621815	United States Of America	10 Jan 2007		REALTIME WEB PAGE SCRAPPING AND VISUAL REPRESENTATION OF ASSOCIATED CLICKTHROUGH AND IMPRESSION DATA ARCHITECTURE
7181681	10/767503	United States Of America	28 Jan 2004	20 Feb 2007	Realtime web page scrapping and visual representation of associated clickthrough and impression data architecture
7216255	10/764096	United States Of America	23 Jan 2004	08 May 2007	Adaptive recovery from system failure for application instances that govern message transactions
7600153	11/955236	United States Of America	12 Dec 2007	06 Oct 2009	Adaptive recovery from system failure for application instances that govern message transactions
7313727	11/627344	United States Of America	25 Jan 2007	25 Dec 2007	Adaptive recovery from system failure for application instances that govern message transactions
7631071	10/763553	United States Of America	23 Jan 2004	08 Dec 2009	Mechanism for ensuring processing of messages received while in recovery mode
7228312	10/796435	United States Of America	09 Mar 2004	05 Jun 2007	Transformation tool for mapping XML to relational database
MY-134408-A	PI20034235	Malaysia	05 Nov 2003	31 Dec 2007	METHOD AND COMPUTER-READABLE MEDIUM FOR IMORTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA
2448787	2448787	Canada	10 Nov 2003	17 Jan 2012	METHOD AND COMPUTER-READABLE MEDIUM FOR IMPORTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA
1426877	3026013.7	United Kingdom	11 Nov 2003	15 Sep 2010	Importing and exporting hierarchically structured data
	2003-396397	Japan	26 Nov 2003		METHOD FOR IMPORTING AND EXPORTING HIERARCHIZED DATA, AND COMPUTER-READABLE MEDIUM
1426877	3026013.7	Italy	11 Nov 2003	15 Sep 2010	Importing and exporting hierarchically structured data
HK1066304	4109293.1	Hong Kong	11 Nov 2003	15 Jul 2011	IMPORTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA

	301004209	Thailand	10 Nov 2003		Method and Computer-Readable Medium for Importing and Exporting Hierarchically Structured Data
	1374/DEL/2003	India	07 Nov 2003		METHOD AND COMPUTER-READABLE MEDIUM FOR IMPROTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA
60334185.3	3026013.7	Germany	11 Nov 2003	15 Sep 2010	Importing and exporting hierarchically structured data
200310120703.X	200310120703.X	China	27 Nov 2003	12 Aug 2009	Method for importing and exporting data of hierarchic structure
1067398	10-2003-0084415	South Korea / Republic of Korea	26 Nov 2003	19 Sep 2011	METHOD AND COMPUTER-READABLE MEDIUM FOR IMPORTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA
2338245	2003134278	Russian Federation	26 Nov 2003	10 Nov 2008	METHOD AND COMPUTER-READ MEDIUM TO IMPORT AND EXPORT HIERARCHICALLY STRUCTURED DATA
	PI0306749-1	Brazil	21 Nov 2003		METHOD AND LEGIBLE WAY FOR COMPUTER TO MATTER AND TO EXPORT HIERARCHICALLY GIVEN STRUCTURALIZED
	P-363561	Poland	19 Nov 2003		METHOD AND COMPUTER READABLE CARRIER DESIGNED FOR IMPORTING AND EXPORTING DATA OF HIERARCHIC STRUCTURE
253021	PA/a/2003/010779	Mexico	25 Nov 2003	04 Jan 2008	METHOD AND COMPUTER-READABLE MEDIUM FOR IMPORTING AND EXPORTING HIERARCHICALLY STRUCTURED DATA.
I334551	92133100	Taiwan	25 Nov 2003	11 Dec 2010	Method and computer-readable medium for improting and exporting hierarchically structured data
7191186	10/306022	United States Of America	27 Nov 2002	13 Mar 2007	Method and computer-readable medium for importing and exporting hierarchically structured data
1426877	3026013.7	European Procedure (Patents)	11 Nov 2003	15 Sep 2010	Importing and exporting hierarchically structured data

EP1426877	EP03026013.7	France	11 Nov 2003	15 Sep 2010	Importing and exporting hierarchically structured data
2003262290	2003262290	Australia	14 Nov 2003	07 Jan 2010	Method and computer-readable medium for importing and exporting hierarchically structured data
2003/08722	2003/08722	South Africa	10 Nov 2003	29 Dec 2004	Method and computer-readable medium for importing and exporting hierarchically structured data.
7194386	11/252528	United States Of America	17 Oct 2005	20 Mar 2007	Automated collection of information
7472040	11/598609	United States Of America	13 Nov 2006	30 Dec 2008	Automated collection of information
7941418	11/270014	United States Of America	09 Nov 2005	10 May 2011	Dynamic corpus generation
7975059	11/274488	United States Of America	15 Nov 2005	05 Jul 2011	Generic application level protocol analyzer
7925773	11/767370	United States Of America	22 Jun 2007	12 Apr 2011	Virtual format for the storage of streaming data
	60/255238	United States Of America	11 Dec 2000		(Relates to 167411.2 through 167419.2)
7299274	10/014177	United States Of America	11 Dec 2001	20 Nov 2007	Method and system for management of multiple network resources
	60/255044	United States Of America	11 Dec 2000		(Relates to 167411.2 through 167419.2)
	60/255043	United States Of America	11 Dec 2000		(Relates to 167411.2 through 167419.2)
60131683.5	01985546.9	Germany	11 Dec 2001	28 Nov 2007	PROCEDURE AND SYSTEM FOR THE ADMINISTRATION OF SEVERAL NETWORK OPERATIONAL FUNDS
1412846	01985546.9	United Kingdom	11 Dec 2001	28 Nov 2007	METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES
	60/255153	United States Of America	11 Dec 2000		Search engine extensibility

	60/255042	United States Of America	11 Dec 2000		Quick search
	60/255041	United States Of America	11 Dec 2000		Schema driven search
1412846	01985546.9	France	11 Dec 2001	28 Nov 2007	Method and System for Management of Multiple Network Resources
7340446	10/015129	United States Of America	11 Dec 2001	04 Mar 2008	Method and system for query-based management of multiple network resources
7689921	11/346807	United States Of America	03 Feb 2006	30 Mar 2010	User interface for managing multiple network resources
502008901 602162	01985546.9	Italy	11 Dec 2001	28 Nov 2007	METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES
6996778	10/014120	United States Of America	11 Dec 2001	07 Feb 2006	User interface for managing multiple network resources
	60/255052	United States Of America	11 Dec 2000		Mmp modules - query driven model for locating objects & tasks
	PCT/US01/480 14	International Procedure	11 Dec 2001		METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES
	60/255050	United States Of America	11 Dec 2000		Object property representation
7584278	10/014293	United States Of America	11 Dec 2001	01 Sep 2009	Method and system for task based management of multiple network resources
1412846	01985546.9	European Procedure (Patents)	11 Dec 2001	28 Nov 2007	METHOD AND SYSTEM FOR MANAGEMENT OF MULTIPLE NETWORK RESOURCES
	60/255051	United States Of America	11 Dec 2000		(Relates to 167411.2 through 167419.2)
7308440	10/014114	United States Of America	11 Dec 2001	11 Dec 2007	System and method for representing an object used in management of multiple network resources
6950990	10/015050	United States Of America	11 Dec 2001	27 Sep 2005	Navigation tool for accessing workspaces and modules in a graphical user interface

	60/366794	United States Of America	22 Mar 2002		ASP Persisted Template Cache
7313652	11/088402	United States Of America	24 Mar 2005	25 Dec 2007	Multi-level persisted template caching
7225296	11/087925	United States Of America	23 Mar 2005	29 May 2007	Multiple-level persisted template caching
6915384	10/389163	United States Of America	14 Mar 2003	05 Jul 2005	Multiple-level persisted template caching
	04005879.4	European Procedure (Patents)	11 Mar 2004		Extensible customization framework for a software system
7124400	10/389683	United States Of America	12 Mar 2003	17 Oct 2006	Extensible customization framework for a software system
5460941	2004-071772	Japan	12 Mar 2004	24 Jan 2014	EXTENSIBLE CUSTOMIZATION FRAMEWORK FOR SOFTWARE SYSTEM
	11/008730	United States Of America	09 Dec 2004		System and Method for Designing a Logical Model of a Distributed Computer System and Deploying Physical Resources According to the Logical Model
7155380	11/008685	United States Of America	09 Dec 2004	26 Dec 2006	System and method for designing a logical model of a distributed computer system and deploying physical resources according to the logical model
6907395	09/696707	United States Of America	24 Oct 2000	14 Jun 2005	System and method for designing a logical model of a distributed computer system and deploying physical resources according to the logical model
7574343	11/276608	United States Of America	07 Mar 2006	11 Aug 2009	System and method for logical modeling of distributed computer systems
7113900	09/695813	United States Of America	24 Oct 2000	26 Sep 2006	System and method for logical modeling of distributed computer systems
	11/379964	United States Of America	24 Apr 2006		Process Encoding
	10-2008-7025431	South Korea /	08 Mar 2007		PROCESS ENCODING

		Republic of Korea			
7971187	11/379974	United States Of America	24 Apr 2006	28 Jun 2011	Configurable software stack
9354904	11/379968	United States Of America	24 Apr 2006	31 May 2016	Applying Packages To Configure Software Stacks
	2009-507681	Japan	08 Mar 2007		Process Encoding
	PCT/US07/05798	International Procedure	08 Mar 2007		PROCESS ENCODING
200780014904.8	200780014904.8	China	08 Mar 2007	29 Jun 2011	Process encoding
7873940	11/379973	United States Of America	24 Apr 2006	18 Jan 2011	Providing packages for configuring software stacks
	15/089428	United States Of America	01 Apr 2016		APPLYING PACKAGES TO CONFIGURE SOFTWARE STACKS
	07752492.4	European Procedure (Patents)	08 Mar 2007		Process Encoding
8015563	11/404361	United States Of America	14 Apr 2006	06 Sep 2011	Managing virtual machines with system-wide policies
	11/427041	United States Of America	28 Jun 2006		Model-Based Policy Application
	11/836418	United States Of America	09 Aug 2007		Model-Based Policy Application
7689676	11/622978	United States Of America	12 Jan 2007	30 Mar 2010	Model-based policy application
	13/942536	United States Of America	15 Jul 2013		Model-Based System Monitoring
8489728	11/107420	United States Of America	15 Apr 2005	16 Jul 2013	Model-based system monitoring
7802144	11/107419	United States Of America	15 Apr 2005	21 Sep 2010	Model-based system monitoring

7797147	11/107339	United States Of America	15 Apr 2005	14 Sep 2010	Model-based system monitoring
	PA/a/2005/006645	Mexico	22 Jul 2004		SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM THE EXTRANET.
200480001318.6	200480001318.6	China	22 Jul 2004	02 Jun 2010	Method for listing application program and remote client
	1812/DELNP/2005	India	22 Jul 2004		SEAMLESS DISCOVERY OF WORKSTATION - INSTALLED REMOTE APPLICATION FROM THE EXTRANET
1716495	04778923.5	Netherlands	22 Jul 2004	07 Mar 2018	Seamless Discovery Of Workstation-Installed Remote Applications From The Extranet
1716495	04778923.5	France	22 Jul 2004	07 Mar 2018	Seamless Discovery Of Workstation-Installed Remote Applications From The Extranet
602004052446.8	04778923.5	Germany	22 Jul 2004	07 Mar 2018	Seamless Discovery Of Workstation-Installed Remote Applications From The Extranet
1716495	04778923.5	European Procedure (Patents)	22 Jul 2004	07 Mar 2018	Seamless Discovery Of Workstation-Installed Remote Applications From The Extranet
	PCT/US04/23631	International Procedure	22 Jul 2004		SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM THE EXTRANET
	2004279200	Australia	22 Jul 2004		Seamless discovery of workstation-installed remote applications from the extranet
1716495	04778923.5	United Kingdom	22 Jul 2004	07 Mar 2018	Seamless Discovery Of Workstation-Installed Remote Applications From The Extranet
7475125	10/722181	United States Of America	24 Nov 2003	06 Jan 2009	Seamless discovery of workstation-installed remote applications from an extranet
4800966	2006-541122	Japan	22 Jul 2004	12 Aug 2011	Seamless Discovery of Workstation-Installed Remote Applications from an Extranet
PI0406407-0	PI0406407-0	Brazil	22 Jul 2004	03 Jan 2017	Discovered Entire Of Remote Applications Installed In Station Of Work From Extranet
	2501472	Canada	22 Jul 2004		SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE

					APPLICATIONS FROM THE EXTRANET
	10-2005-7006216	South Korea / Republic of Korea	22 Jul 2004		SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM THE EXTRANET
2364925	2005115572	Russian Federation	22 Jul 2004	20 Aug 2009	SEAMLESS DETECTION OF REMOTE APPLICATIONS INSTALLED ON WORKSTATION FROM EXTRANET
7831820	11/165755	United States Of America	23 Jun 2005	09 Nov 2010	System and method for converting a target computing device to a virtual machine in response to a detected event
	60/893350	United States Of America	06 Mar 2007		Inferring Potentially-Responsible Candidates
8015139	12/039703	United States Of America	28 Feb 2008	06 Sep 2011	Inferring candidates that are potentially responsible for user-perceptible network problems
7159016	10/023611	United States Of America	18 Dec 2001	02 Jan 2007	Method and apparatus for configuring an endpoint device to a computer network
7058953	10/202057	United States Of America	23 Jul 2002	06 Jun 2006	Managing a distributed computing system
7664023	11/754865	United States Of America	29 May 2007	16 Feb 2010	Dynamic protocol construction
7243157	10/783751	United States Of America	20 Feb 2004	10 Jul 2007	Dynamic protocol construction
8930315	13/021613	United States Of America	04 Feb 2011	06 Jan 2015	Using a Data Protection Server to Backup and Restore Data on Virtual Servers
7899788	11/097634	United States Of America	01 Apr 2005	01 Mar 2011	Using a data protection server to backup and restore data on virtual servers
	PCT/US06/08200	International Procedure	08 Mar 2006		USING A DATA PROTECTION SERVER TO BACKUP AND RESTORE DATA ON VIRTUAL SERVERS
8245223	12/342169	United States Of America	23 Dec 2008	14 Aug 2012	Networked deployment of multi-application customizations
1460534	04005190.6	United Kingdom	04 Mar 2004	18 Feb 2015	Customization of process logic in a software system
1460534	04005190.6	Netherlands	04 Mar 2004	18 Feb 2015	Customization of process logic in a software system

7080089C1	90/008546	United States Of America	03 May 2007	18 Jul 2006	CUSTOMIZATION OF PROCESS LOGIC IN A SOFTWARE SYSTEM
	2004-066285	Japan	09 Mar 2004		CUSTOMIZATION METHOD OF PROCESSING LOGIC IN SOFTWARE SYSTEM
7711688	11/400556	United States Of America	07 Apr 2006	04 May 2010	Customization of process logic in a software system
602004046 617.4	04005190.6	Germany	04 Mar 2004	18 Feb 2015	Customization of process logic in a software system
7080089	10/389684	United States Of America	12 Mar 2003	18 Jul 2006	Customization of process logic in a software system
1460534	04005190.6	European Procedure (Patents)	04 Mar 2004	18 Feb 2015	Customization of process logic in a software system
1460534	04005190.6	France	04 Mar 2004	18 Feb 2015	Customization of process logic in a software system
	04005912.3	European Procedure (Patents)	12 Mar 2004		Customization of metadata describing objects in a computing environment
7085752	10/387508	United States Of America	12 Mar 2003	01 Aug 2006	Customization of metadata describing objects in a computing environment
5541830	2004-071771	Japan	12 Mar 2004	16 May 2014	CUSTOMIZATION OF METADATA DESCRIBING OBJECT IN COMPUTING ENVIRONMENT
7584207	11/401825	United States Of America	11 Apr 2006	01 Sep 2009	Customization of metadata describing objects in a computing environment
7730446	10/389670	United States Of America	12 Mar 2003	01 Jun 2010	Software business process model
	2004-069827	Japan	11 Mar 2004		SOFTWARE BUSINESS PROCESS MODEL
	04005850.5	European Procedure (Patents)	11 Mar 2004		Software model of business process

Table 2:

Patent Number	Application Number	Country	Filing Date	Grant Date	Title
1201008	10-2005-7006230	South Korea / Republic of Korea	12 Jul 2004	07 Nov 2012	MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS
7676560	10/693588	United States Of America	24 Oct 2003	09 Mar 2010	Using URI's to identify multiple instances with a common schema
1203224	10-2005-7009402	South Korea / Republic of Korea	27 Jul 2004	14 Nov 2012	SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES
	04779267.6	European Procedure (Patents)	27 Jul 2004		SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES
	PCT/US04/22097	International Procedure	12 Jul 2004		Using URI's To Identify Multiple Instances With A Common Schema
7103874	10/692216	United States Of America	23 Oct 2003	05 Sep 2006	Model-based management of computer systems and distributed applications
278143	PA/a/2005/00714 1	Mexico	12 Jul 2004	11 Aug 2010	MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS.
	PCT/US04/22275	International Procedure	12 Jul 2004		Rules Definition Language
	01830/DELNP/200 5	India	12 Jul 2004		MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS
5030592	2006-536574	Japan	27 Jul 2004	06 Jul 2012	Scalable Synchronous And Asynchronous Processing Of Monitoring Rules
20048000125 5.4	200480001255.4	China	27 Jul 2004	21 Mar 2012	Method and system for processing rules
	04756913.2	European Procedure (Patents)	12 Jul 2004		MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND

					DISTRIBUTED APPLICATIONS
2004279195	2004279195	Australia	12 Jul 2004	15 Jul 2010	Model-based management of computer systems and distributed applications
	PCT/US04/24134	International Procedure	27 Jul 2004		SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES
2375744	2005116258	Russian Federation	12 Jul 2004	10 Dec 2009	MODEL BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS
	01822/DELNP/2005	India	27 Jul 2004		SCALABLE SYNCHRONOUS AND ASYNCHRONOUS PROCESSING OF MONITORING RULES
7539974	10/693072	United States Of America	24 Oct 2003	26 May 2009	Scalable synchronous and asynchronous processing of monitoring rules
7712085	10/943452	United States Of America	17 Sep 2004	04 May 2010	Use of attribution to describe management information
2501729	2501729	Canada	12 Jul 2004	07 Apr 2015	MODEL-BASED MANAGEMENT OF COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS
	PI0406418-6	Brazil	12 Jul 2004		MANAGEMENT OF COMPUTER SYSTEMS AND APPLICATIONS DISTRIBUTED BASED IN MODEL
200480001254.X	200480001254.X	China	12 Jul 2004	08 Sep 2010	Model management-based method and system for computer systems and distributed application program
	092235	Thailand	13 Jul 2004		Using URI's To Identify Multiple Instances With A Common Schema
7506307	10/692660	United States Of America	24 Oct 2003	17 Mar 2009	Rules definition language
	PCT/US04/22378	International Procedure	12 Jul 2004		MODEL-BASED MANAGEMENT OF

					COMPUTER SYSTEMS AND DISTRIBUTED APPLICATIONS
7765540	10/692432	United States Of America	23 Oct 2003	27 Jul 2010	Use of attribution to describe management information
	93120881	Taiwan	13 Jul 2004		Using URI's To Identify Multiple Instances With A Common Schema
4809772	2006-536552	Japan	12 Jul 2004	26 Aug 2011	Model-Based Management Of Computer Systems And Distributed Applications
	PI20042794	Malaysia	13 Jul 2004		Using URI's To Identify Multiple Instances With A Common Schema
20041003269 9.6	200410032699.6	China	05 Mar 2004	19 Aug 2009	Architecture for distributed computing system and automated design, deployment, and management of distributed applications
	04005331.6	European Procedure (Patents)	05 Mar 2004		Architecture for distributed computing system and automated design, deployment, and management of distributed applications
	0356/DEL/2004	India	04 Mar 2004		ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS
	2004-064566	Japan	08 Mar 2004		ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEVELOPMENT AND MANAGEMENT OF DISTRIBUTED APPLICATION
1044173	10-2004-0015346	South Korea / Republic of Korea	06 Mar 2004	17 Jun 2011	ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND

					AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS
7630877	11/321162	United States Of America	29 Dec 2005	08 Dec 2009	Architecture for distributed computing system and automated design, deployment, and management of distributed applications
7200530	11/321280	United States Of America	29 Dec 2005	03 Apr 2007	Architecture for distributed computing system and automated design, deployment, and management of distributed applications
7162509	11/324062	United States Of America	30 Dec 2005	09 Jan 2007	Architecture for distributed computing system and automated design, deployment, and management of distributed applications
7072807	10/789440	United States Of America	26 Feb 2004	04 Jul 2006	Architecture for distributed computing system and automated design, deployment, and management of distributed applications
	60/452736	United States Of America	06 Mar 2003		Architecture for Distributed Computing System and Automated Design, Deployment, and Management of Distributed Applications
2004200639	2004200639	Australia	18 Feb 2004	18 Mar 2010	Integrating design, deployment, and management phases for systems
	200410088250.1	China	05 Mar 2004		Integrating design, deployment, and management phases for systems
60200405179 0.9	04005431.4	Germany	08 Mar 2004	13 Sep 2017	Integrating design, deployment, and management phases for systems

1455484	04005431.4	European Procedure (Patents)	08 Mar 2004	13 Sep 2017	Integrating Design, Deployment, And Management Phases For Systems
1455484	04005431.4	France	08 Mar 2004	13 Sep 2017	Integrating design, deployment, and management phases for systems
1455484	04005431.4	United Kingdom	08 Mar 2004	13 Sep 2017	Integrating design, deployment, and management phases for systems
160461	160461	Israel	19 Feb 2004	25 Jul 2004	Integrating Design, Deployment, and Management Phases for Systems
258821	0216/MUM/2004	India	23 Feb 2004	10 Feb 2014	INTEGRATING DESIGN DEPLOYMENT AND MANAGEMENT PHASES FOR SYSTEMS
	2004-063226	Japan	05 Mar 2004		METHOD FOR INTEGRATING PHASE OF DESIGN, DEVELOPMENT AND MANAGEMENT OF SYSTEM
1026606	10-2004-0015016	South Korea / Republic of Korea	05 Mar 2004	25 Mar 2011	INTEGRATING DESIGN, DEPLOYMENT, AND MANAGEMENT PHASES FOR SYSTEMS
1455484	04005431.4	Netherlands	08 Mar 2004	13 Sep 2017	Integrating design, deployment, and management phases for systems
8122106	10/693838	United States Of America	24 Oct 2003	21 Feb 2012	Integrating design, deployment, and management phases for systems
2004/01494	2004/01494	South Africa	24 Feb 2004	29 Jun 2005	Integrating design, deployment, and management phases for systems.
7765501	10/809088	United States Of America	25 Mar 2004	27 Jul 2010	Settings and constraints validation to enable design for operations
20041003302 7.7	200410033027.7	China	05 Mar 2004	11 Nov 2009	Method and system for design, deployment, and management of one or a

					plurality of distributed computing systems
	04005315.9	European Procedure (Patents)	05 Mar 2004		Architecture for distributed computing system and automated design, deployment, and management of distributed applications
	0372/DEL/2004	India	05 Mar 2004		ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS
	2011-005864	Japan	14 Jan 2011		ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEVELOPMENT AND MANAGEMENT OF DISTRIBUTED APPLICATION
	2004-063225	Japan	05 Mar 2004		DISTRIBUTED COMPUTING SYSTEM AND ARCHITECTURE FOR AUTOMATED DESIGN AND DEVELOPMENT AND MANAGEMENT OF DISTRIBUTED APPLICATION
1117945	10-2004-0015343	South Korea / Republic of Korea	06 Mar 2004	10 Feb 2012	ARCHITECTURE FOR DISTRIBUTED COMPUTING SYSTEM AND AUTOMATED DESIGN, DEPLOYMENT, AND MANAGEMENT OF DISTRIBUTED APPLICATIONS
7890543	10/693004	United States Of America	24 Oct 2003	15 Feb 2011	Architecture for distributed computing system and automated design, deployment, and management of distributed applications

20041003270 0.5	200410032700.5	China	05 Mar 2004	21 Mar 2012	Method of design time validation of systems
	04005332.4	European Procedure (Patents)	05 Mar 2004		Design time validation of systems
	08011797.1	European Procedure (Patents)	05 Mar 2004		Design time validation of systems
287229	0355/DEL/2004	India	04 Mar 2004	08 Sep 2017	Design Time Validation Of Systems
	2004-063227	Japan	05 Mar 2004		VERIFICATION OF SYSTEM AT DESIGNING
1044182	10-2004-0015971	South Korea / Republic of Korea	06 Mar 2004	17 Jun 2011	DISIGN TIME VALIDATION OF SYSTEM
7886041	10/791222	United States Of America	01 Mar 2004	08 Feb 2011	Design time validation of systems
	11/170700	United States Of America	29 Jun 2005		Model-Based System Management
7792931	11/077265	United States Of America	10 Mar 2005	07 Sep 2010	Model-based system provisioning
7890951	11/169502	United States Of America	29 Jun 2005	15 Feb 2011	Model-based provisioning of test environments
7684964	11/222514	United States Of America	08 Sep 2005	23 Mar 2010	Model and system state synchronization
	11/693369	United States Of America	29 Mar 2007		Auto-Generation Of Provider Functionality
9317270	14/042619	United States Of America	30 Sep 2013	19 Apr 2016	MODEL-BASED VIRTUAL SYSTEM PROVISIONING
9811368	14/857480	United States Of America	17 Sep 2015	07 Nov 2017	Model-based virtual system provisioning
	15/721338	United States Of America	29 Sep 2017		Model-based virtual system provisioning
8549513	11/169973	United States Of America	29 Jun 2005	01 Oct 2013	Model-based virtual system provisioning

In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights, title and interest (i) in and to causes of action and enforcement rights for the Patent Rights including, without limitation, all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for patents, design patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to record this Assignment and issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire right, title and interest therein.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Redmond, WA, USA on _____

15th - Nov. - 2018

ASSIGNOR

By: _____

Name: Micky (Sandip) Minhas

Title: President

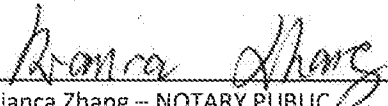
(Signature MUST be notarized)

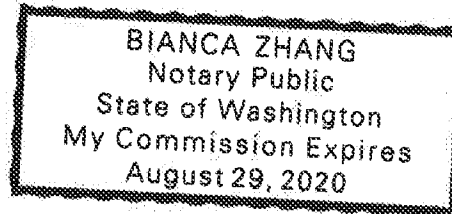
NOTARIAL CERTIFICATION

STATE OF WASHINGTON)
) ss:
COUNTY OF KING)

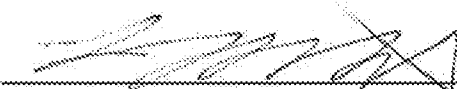
I certify that I know or have satisfactory evidence that Micky (Sandip) Minhas is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as President of Microsoft Technology Licensing, LLC to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated this 15th day of November 2018.


Bianca Zhang -- NOTARY PUBLIC
In and for the State of Washington U.S.A.
Residing at King County, Washington U.S.A.
My Appointment expires: 08/29/2020



ASSIGNEE

By: 
Name: Tom maurakakis
Title: VP Legal, IP

(Signature MUST be notarized)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of SANTA CLARA)

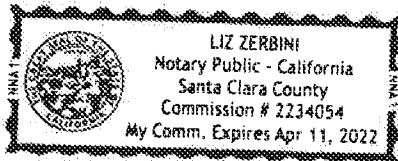
On NOV. 13, 2018 before me, LIZ ZERBINI, NOTARY PUBLIC,
Date Here Insert Name and Title of the Officer

personally appeared THOMAS MAVRAKAKIS
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____