

Nicolas Vargas

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Search 15: 14 and dependency graph (Results 13)

1) Family number: 13007821 (US5043929A)

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Title: Closed-form kinematics

Abstract: Source: US5043929A A method and apparatus for performing kinematic analysis of linkages is disclosed. Generalized mechanisms are selected from a catalog of mechanisms. From an initial selection of mechanisms, the one most closely matching a desired behavior is chosen and an optimization procedure is conducted. The method may be preceded by a qualitative kinematic analysis or the qualitative analysis may be used in lieu of a catalog selection. An improved optimization technique is disclosed, along with a closed form kinematic analysis method.

Classifications:

International (IPC 8-9): G06F17/50 (Advanced/Invention);

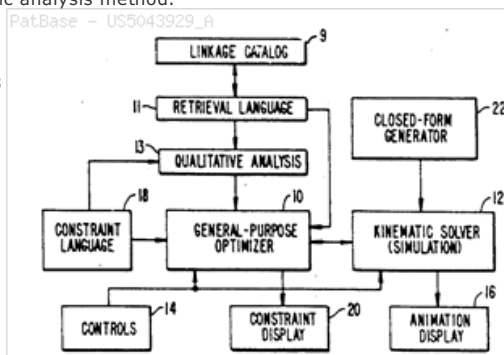
G06F17/50 (Core/Invention)

International (IPC 1-7): G06F15/20 G06F15/60 G06F17/50 G06G7/48

CPC: Y10S706/919 Y10S345/953 Y10S706/92 G06F17/5086

European: G06F17/50M

US: 345/419 345/421 345/443 345/953 364/512 364/578 395/10 395/152 395/81 395/920 395/99 700/246 700/264 703/1 703/6 703/7 706/45 706/46 706/62 706/919 706/920 708/809 708/814



Family:

Publication number	Publication date	Application number	Application date
EP0407238 A2	19910109	EP19900401591	19900611
EP0407238 A3	19920520	EP19900401591	19900611
JP2905263 B2	19990614	JP19900152880	19900613
JP3129476 A2	19910603	JP19900152880	19900613
US5043929 A	19910827	US19890365627	19890613
US5253189 A	19931012	US19890365586	19890613
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Priority:

US19890365586 19890613	US19890365626 19890613	US19930053891 19930427
US19890365627 19890613	US19910793303 19911113	US19920979143 19921120
US19950420618 19950412		

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECHNOLOGIES INC ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SHURUNBERUJE TEKUNOROJIIZU INC ; SCHLUMBERGER TECHNOLOGIES INC A CORP OF DE ; SCHLUMBERGER TECHNOL INC

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2) Family number: 28182893 (US2002007373A)

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Title: SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR KNOWLEDGE MANAGEMENT

Abstract: Source: US2002007373A A system, method, and computer program product of enabling a **user** to organize and analyze information in electronic form are described herein. The method operates by searching a first set of documents to thereby generate a second set of documents. The method automatically creates a first group comprising the second set of documents. The method analyzes the first group according to one or more analytical functions to thereby generate a third set of documents. The method automatically creates a second group comprising the third set of documents. The method enables selective iteration of any of these operational steps. The method also generates objects corresponding to process components of this work flow. The **user** can re-execute the work flow (process) by traversing the objects, or create a new process by modifying the objects.

Classifications:

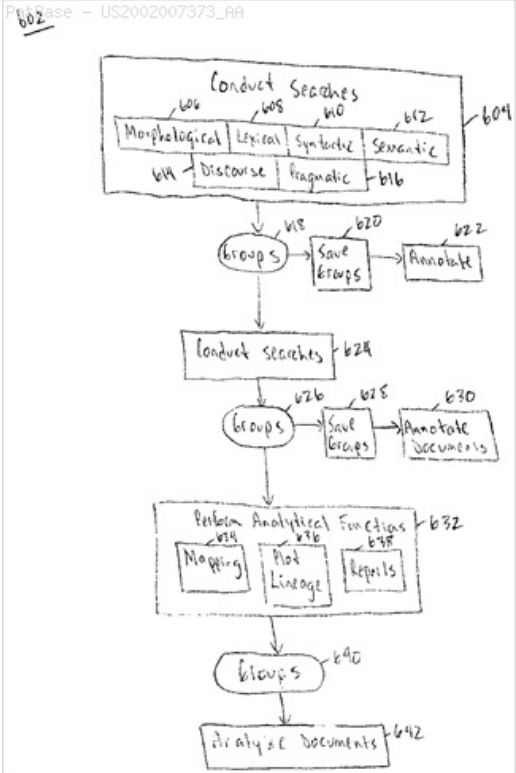
International (IPC 8-9): G05B19/418 G06F12/00 G06F13/14 G06F13/40 G06F15/16 G06F17/00 G06F17/21 G06F17/30 G06F17/50 G06F3/048 G06F3/0483 G06F3/14 G06F7/00 G06F9/44 G06F9/46 G06Q10/00 G06Q10/10 G06Q30/00 G06Q40/00 G06Q50/00 G06Q50/18 G06Q99/00 (Advanced/Invention); G06F12/00 G06F15/00 G06F17/21 G06F17/30 G06F3/048 G06F3/14 G06Q10/00 (Advanced/Non-invention); G06F12/00 G06F17/00 G06F17/21 G06F17/30 G06Q10/00 G06Q30/00 G06Q50/00 (Core/Invention)

International (IPC 1-7): G06F12/00 G06F13/14 G06F15/00 G06F15/16 G06F17/00 G06F17/21 G06F17/30 G06F17/60 G06F3/14 G06F7/00

CPC: G06F8/24 G06F17/30569 G06F17/30896 G06Q40/08 G06F17/30876 Y10S707/917 Y10S707/924 Y10S707/933 Y10S707/99931 Y10S707/99932 Y10S707/99943 Y10S707/99945 Y10S707/99933 Y10S707/99935 Y10S707/99948 Y10S707/923 Y10S707/934 Y10S707/936 Y10S707/937 Y10S707/938 G06F17/30728 G06F17/30707 G06F17/30716 G06F17/30994 G06F17/30014 G06F13/4063 G06F17/30017 G06F17/30625 G06F17/30855 G06F17/3061 G06F17/30908 G06F3/0483 G06F17/218 G06F17/30011 G06F17/30253 G06F2216/11 G06Q10/10 G06Q50/18 G06Q50/184

European: G06F13/40E G06F17/30D G06F17/30D4 G06F17/30E G06F17/30S5V G06F17/30T G06F17/30T1P3 G06F17/30T4C G06F17/30T5 G06F17/30T6C G06F17/30V5H G06F17/30W5 G06F17/30W7S G06F17/30X G06F17/30Z5 G06F8/24 G06Q10/10 G06Q40/08 G06Q50/18 G06Q50/184 S06F216/11

US: 1/1 1/1P 364/286 364/286.1 364/286.2 364/286.3 364/962 395/341 395/603 395/605 395/683 395/762 395/773 395/784 395/787 395/788 702/1 705/1 705/10 705/310 705/310P 705/310S 705/36 705/4 705/59 705/59P 705/7 705/8 705/9 707/1 707/100 707/102 707/104 707/104.1 707/2 707/3 707/500 707/505 707/512 707/525 707/526 707/737 707/758 707/773 707/781 707/797 707/798 707/917 707/923 707/924 707/933 707/934 707/936 707/937 707/938 707/999.001 707/999.001S 707/999.002 707/999.003 707/999.005 707/999.1 707/999.102 707/999.102S 707/999.104 707/999.104S 707/999.107 707/E17.008 707/E17.008S 707/E17.009 707/E17.013 707/E17.058 707/E17.058S 707/E17.087 707/E17.093 707/E17.093S 707/E17.097 707/E17.097S 707/E17.112 709/203 709/217 709/219 709/230 709/230P 715/202 715/205 715/209 715/210 715/223 715/223P 715/230 715/230S 715/234 715/255 715/257 715/260 715/273 715/501.1 715/512 715/526 715/765 715/765S 715/788 715/817 715/817S 719/315



Family:

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Probable Assignee: F POSZAT HU LLC

Assignee(s): (std): ALCABES HARVEY ; AURIGIN SYSTEMS INC ; BLAIR TIM W ; BRANNON DONALD ; DEWOLFE ANDREW S ; GERMERAAD PAUL B ; HOHMANN LUKE ; GORETSKY DAVID ; PUGLIA DAVID ; RABB CHARLES JR ; PARK BRIAN ; NAVARRETE JORGE A ; JACKSON ADAM ; MULLER ROBERT J ; KUROWSKI SCOTT ; PARADAN THIERRY ; MICROPATENT LLC ; HEATON SHERYL A ; HEATON SHERYL ANN ; LUKE HOHMANN ; PAUL B GERMERAAD ; IRVING S RAPPAPORT ; KEVIN G RIVETTE ; RABB JR CHARLES ; WAVERLEY HOLDINGS INC ; ROSE BLUSH SOFTWARE LLC ; SMITH DAVID W ; THORNTHWAITE WARREN ; RIVETTE KEVIN G ; SCHNITZ MATTHEW ; RAPPAPORT IRVING S ; SCHNITZ MATTHEW ; ROSENQUIST BRENT ; MICROPATENT LLC EAST HAVEN ; SMARTPATENTS INC ; ROSE BLUSH SOFTWARE LLC LOS AL ; WAVERLY HOLDINGS INC ; SHERYL ANN HEATON

Assignee(s): WAVERLEY HOLDINGS INC MENLO PARK CALIF US ; WAVERLEY HOLDINGS INC PALO ALTO US ; WAVERLY HOLDINGS INC ; ROSE BLUSH SOFTWARE LLC LOS ALTOS ; RABB CHARLES ; AHN DON ; TRANSAMERICA BUSINESS CREDIT CORP ; TRANSAMERICA BUSINESS CREDIT CORP ; KURATA DEBORAH ; KOEHN DAVID ; F POSZAT HU LLC ; FLORIO MICHAEL P ; CARRICO SANDRA L ; BASHSHUR NOURA

Inventor(s): (std): ADAM JACKSON ; AHN DON ; BASHSHUR NOURA ; BLAIR TIM W ; BRANNON DONALD ; CARRICO SANDRA L ; ALCABES HARVEY ; DEBORAH KURATA ; DEBORAH RIVETTE KEVIN G FLORIO ; FLORIO MICHAEL ; FLORIO MICHAEL P ; FLORIO MICHAEL PHILIP ; FLORIO P ; GERARD RIVETTE KEVIN ; GERMERAAD PAUL ; GERMERAAD PAUL B ; GORETSKY DAVID ; HEATON SHERYL A ; HEATON SHERYL ANN ; HOHMANN LUKE ; IRVING ; JACKSON ADAM ; KOEHN DAVID ; KURATA DEBORAH ; KUROWSKI SCOTT ; MULLER ROBERT J ; NAVARETTE JORGE A ; NAVARRETE A ; NAVARRETE JORGE A ; DEWOLFE ANDREW S ; DON AHN ; PARADAN THIERRY ; PARK BRIAN ; PHILIP FLORIO MICHAEL ; PUGLIA DAVID ; RABB CHARLES ; RABB CHARLES JR ; RABB JR ; RABB JR CHARLES ; RAPPAPORT IRVING S ; RAPPAPORT IRVING ; RAPPAPORT IRVING S ; RAPPAPORT IRVING SHALE ; RAPPAPORT S ; RIVETTE G ; RIVETTE KEVIN ; RIVETTE KEVIN G ; RIVETTE KEVIN GERARD ; ROSENQUIST BRENT ; SCHNITZ MATTHEW ; SCHNITZ MATTHEW ; SHALE RAPPAPORT IRVING ; SMITH DAVID W ; SMITH W ; THORNTHWAITE WARREN

Inventor(s): WARREN THORNTHWAITE ; THIERRY PARADAN ; SHERYL ANN HEATON ; SMITH DAVID ; SCOTT KUROWSKI ; S RAPPAPORT ; ROBERT J MULLER ; PAUL B GERMERAAD ; DONALD BRANNON ; NOURA BASHSHUR ; LUKE HOHMANN ; MATTHEW SCHNITZ ; MICHAEL P FLORIO ; KURATA DEBORAH PLEASANTON CA 94566 US ; KURATA DEBORAH PLEASANTON CA 94588 US ; JACKSON ADAM SUNNYVALE CA 94086 US ; JACKSON ADAM SUNNYVALE CA 94089 US ; JORGE A NAVARRETE ; KEVIN G RIVETTE ; KEVIN RIVETTE ; IRVING S RAPPAPORT ; HARVEY ALCABES ; DEWOLFE ANDREW ; ANDREW S DEWOLFE ; BASHSHUR NAURA ; CHARLES RABB JR ; DAVID GORETSKY ; DAVID PUGLIA ; DAVID W SMITH ; BRENT ROSENQUIST ; BRIAN PARK ; CARRICO SANDRA ; AHN DON DALY CITY CA 94015 US ; AHN DON MENLO PARK CA 94025 US

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG ML MN MR MW MX NZ NE NL NO NZ PL PT RO RU SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

3) Family number: 29389554 (US5625823A)

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Title: Method and apparatus for controlling connected computers without programming

Abstract: Source: US5625823A A process for creating, maintaining, and executing network applications. A **user** specifies a network application as an interconnection of tasks, each task being addressed to run on one or more computers. Process steps install and execute the application with accommodation for dynamically changing addresses. During execution, process steps compile or interpret source code on remote computers as needed. Process steps permit application changes during execution subject to limitations and fail-safes that prevent non-programmers from creating invalid changes.

Classifications:

International (IPC 8-9): G06F9/44 (Advanced/Invention);

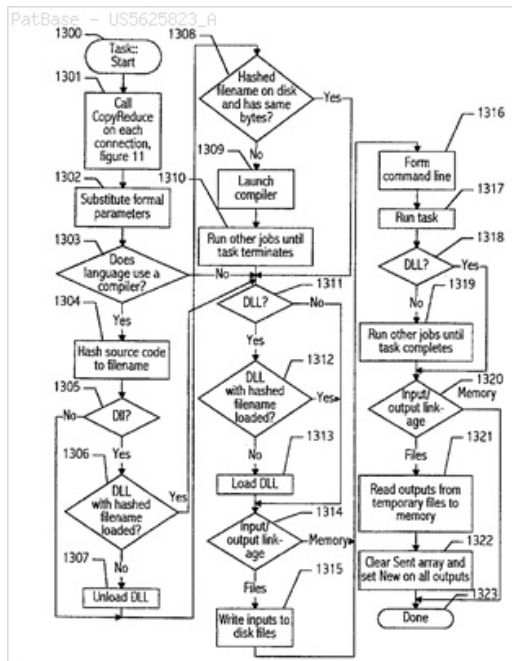
G06F9/44 (Core/Invention)

International (IPC 1-7): G06F9/44

CPC: G06F8/34

European: G06F8/34

US: 395/706 709/100 709/106 709/320 717/139 717/146 718/100 718/102 718/106 719/320



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: DEBENEDICTIS ERIK P

Assignee(s): (std): DEBENEDICTIS ERIK P ; ERIK P DEBENEDICTIS ; JOHNSON STEPHEN C ; STEPHEN C JOHNSON

Inventor(s): (std): DEBENEDICTIS ERIK P ; ERIK P DEBENEDICTIS ; JOHNSON STEPHEN C ; STEPHEN C JOHNSON

Agent(s): PATENT ATTORNEY SERVICES; SIM AND MCBURNEY

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT RU SE

4) Family number: 30311102 (US2004034848A)

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Title: RULE ENGINE

Abstract: Source: US2004034848A Methods and apparatus, including computer program products, for inference processing in a fact-based business automation system, including receiving a rule set as a single package, generating a **dependency graph** for the rule set, and generating a sequence of processing logic for optimal processing of inputted facts.

Classifications:

International (IPC 8-9): G06F17/00 G06F9/44

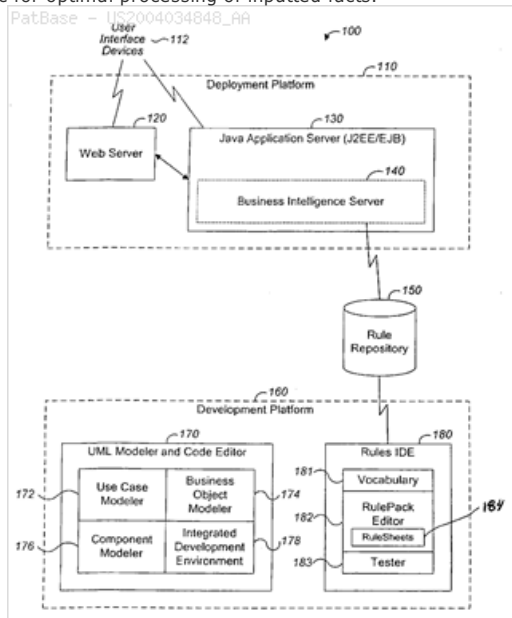
G06N5/04 (Advanced/Invention)

International (IPC 1-7): G06F9/44 G06N5/00 G06N5/04

CPC: G06N5/047

European: G06N5/04F1

US: 706/47 706/48 717/104 717/104S 717/11 717/110 717/110S 717/117 717/117P



Family:

Publication number	Publication date	Application number	Application date
AU2003259744 AA	20040225	AU20030259744	20030811
AU2003259744 AH	20040225	AU20030259744	20030811
EP1543472 A2	20050622	EP20030785168	20030811
US2004034848 AA	20040219	US20030639674	20030811
US7565642 BB	20090721	US20030639674	20030811
WO04015627 A2	20040219	WO2003US25076	20030811
WO04015627 A3	20041216	WO2003US25076	20030811

Priority:

US20020402160P 20020809 US20030639674 20030811 WO2003US25076 20030811

Probable Assignee: PROGRESS SOFTWARE CORP

Assignee(s): (std): ABRARI PEDRAM ; CORTICON TECHNOLOGIES INC ; MOORE ERIC ANDREW

Assignee(s): PROGRESS SOFTWARE CORP ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; MOORE ERIC

Inventor(s): (std): MOORE ERIC ; MOORE ERIC A ; MOORE ERIC ANDREW ; ABRARI PEDRAM

Inventor(s): ERIC ANDREW MOORE ; PEDRAM ABRARI

Agent(s): FISH AND RICHARDSON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

5) Family number: 34197285 (US2007033519A)

© PatBase

Title: METHOD AND SYSTEM FOR THE GRAPHICAL MODELING OF DATA AND CALCULATIONS OF A **SPREADSHEET**

Abstract: Source: US2007033519A A method and system for the graphical modeling of calculations in a **spreadsheet** which generates a graphical representation of formulas and relevant data contained in a **spreadsheet**. This graphical representation consists of tree or graph structures. Any changes made to the trees or **spreadsheet** cells can subsequently be translated to the corresponding trees and/or cells. A partial resolution of the calculations represented by a tree may be analyzed at specific breakpoints positioned at any node within the tree. Entirely new trees can be created by a **user** to represent new formulas. A **user** can choose to have the system translate these new trees into equivalent expressions based on the **spreadsheet**'s native formula syntax and populate the appropriate corresponding cells. The present invention provides a means of visualizing, editing and constructing complex relationships between formulas, functions and data to improve overall **spreadsheet** use.

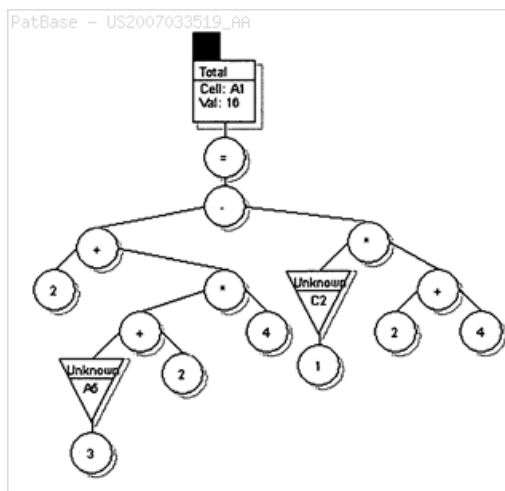
Classifications:

International (IPC 8-9): G06F17/00 G06F7/00 (Advanced/Invention); G06F17/00 (Core/Invention)

CPC: G06F17/215 G06F17/2247 G06F17/246

European: G06F17/21F6 G06F17/22M G06F17/24S

US: 707/778 707/805 715/212 715/215 715/234 715/234P 715/255 715/503 715/538 715/761

**Family:**

Publication number	Publication date	Application number	Application date
US2007033519 AA	20070208	US20060368740	20060306
US7984371 BB	20110719	US20060368740	20060306

Priority:

US20050654641P 20050218 US20050705888P 20050805 US20060368740 20060306

Probable Assignee: ZDENEK ANDREW JOSEPH

Assignee(s): (std): ZDENEK ANDREW J ; ZDENEK ANDREW JOSEPH

Inventor(s): (std): ZDENEK ANDREW J ; ZDENEK ANDREW JOSEPH

Inventor(s): ZDENEK ANDREW

Agent(s): ANDREW ZDENEK

6) Family number: 43556504 (US2009193050A)

© PatBase

Title: REPORT DATABASE DEPENDENCY TRACING THROUGH BUSINESS INTELLIGENCE METADATA

Abstract: Source: US2009193050A In one embodiment, the present invention provides a data stream reference module 250 that can enable a **user** to perform forward tracing, backward tracing, and tracing indirect dependencies in a data model

and/or metadata model. The tracing is not necessarily along a common hierarchical level but can be from one level to another.

Classifications:

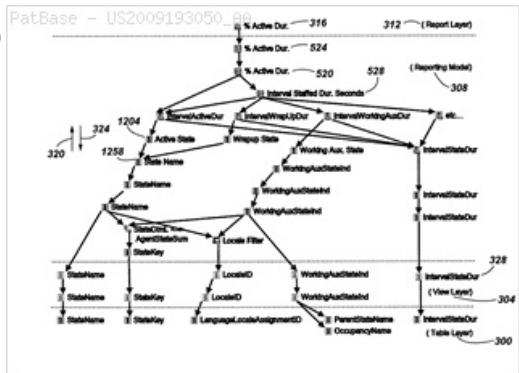
International (IPC 8-9): G06F17/00 G06F17/30 G06F7/00 G06Q10/00 H04M3/493 (Advanced/Invention);
H04M3/493 H04Q3/64 (Advanced/Non-invention);
G06F17/00 G06F17/30 G06Q10/00 (Core/Invention);
H04M3/487 H04Q3/64 (Core/Non-invention)

International (IPC 1-7): G06F17/30 G06Q10/00 H04M3/493

CPC: G06F17/30592 G06F17/30292

European: G06F17/30S

US: 1/1 1/1P 707/102 707/797 707/999.102 707/999.102S 707/E17.005 707/E17.005S



Family:

Publication number	Publication date	Application number	Application date
CA2639362 AA	20090725	CA20082639362	20080902
IN00418MU2009 A	20101022	IN2009MU00418	20090224
US2009193050 AA	20090730	US20080193542	20080818
US8856182 BB	20141007	US20080193542	20080818

Priority:

US20080023757P 20080125 US20080193542 20080818

Probable Assignee: AVAYA INC

Assignee(s): (std): AVAYA INC ; AVAYA TECH LLC ; OLSON JEFFREY J

Assignee(s): CITIBANK NA ADMINISTRATIVE AGENT AS ; AVAYA TECHNOLOGY LLC ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL AGENT AS

Inventor(s): (std): OLSON JEFFREY J

Inventor(s): JEFFREY J OLSON

Agent(s): SHERIDAN ROSS PC

7) Family number: 44048038 (US2009292730A)

© PatBase

Title: SPREADSHEET FORMULA TRANSLATION OF SERVER CALCULATION RULES

Abstract: Source: US2009292730A Architecture includes for translating server calculations into client application formulas. The architecture determines dependencies, performs formulae translation, and processes data retrieval queries using the translated formulae. In one implementation, the architecture translates performance management server calculations into spreadsheet application formulas so that the impact of changes can be reflected immediately. Moreover, this technique does not require updating and querying of the performance management server. An algorithm is provided that allows translation of the backend formula (e.g., MDX-multidimensional expressions) directly into the spreadsheet application such that the impact on calculated values by an input change can be reflected instantaneously in the sheet.

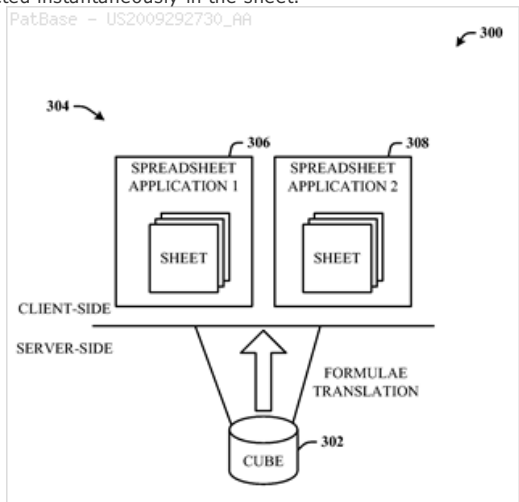
Classifications:

International (IPC 8-9): G06F17/00 G06F17/30 G06F7/00 (Advanced/Invention);
G06F17/30 (Core/Invention)

CPC: G06F17/246 G06F17/30592

European: G06F17/24S G06F17/30S8M

US: 1/1 707/104.1 707/694 707/999.107 707/E17.009 715/212 715/213 715/219



Family:

Publication number	Publication date	Application number	Application date
US2009292730 AA	20091126	US20080126258	20080523
US8527865 BB	20130903	US20080126258	20080523

Priority:

US20080126258 20080523

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): LI BAOMIN ; MICROSOFT CORP ; YAN GEORGE ; YANG MARK

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): LI BAOMIN ; YAN GEORGE ; YANG MARK

Agent(s): MICROSOFT CORP

Title: VERIFICATION OF COMPUTER-EXECUTABLE CODE GENERATED FROM A MODEL

Abstract: Source: US2012254827A In an embodiment, a model is sliced into a plurality of slices. A slice in the plurality of slices is selected. A portion of code, that corresponds to the selected slice, is identified from code generated from the model. The identified code is verified to be equivalent to the selected slice. Equivalence may include equivalent functionality, equivalent data types, equivalent performance, and/or other forms of equivalence between the selected slice and the identified generated code.

Classifications:

International (IPC 8-9): G06F11/36 G06F9/44

G06F9/45 (Advanced/Invention)

CPC: G06F8/35 G06F11/3608 G06F11/3604

European: G06F11/36A

US: 1/1 717/100 717/104 717/106 717/124 717/126 717/136 717/146



Family:

Publication number	Publication date	Application number	Application date
EP2718821 A2	20140416	EP20120727561	20120607
US2012254827 AA	20121004	US20110250590	20110930
US2012254830 AA	20121004	US20110250577	20110930
US2014380269 AA	20141225	US20140475302	20140902
US8464204 BA	20130611	US20090559250	20090914
US8713528 BA	20140429	US20090559233	20090914
US8856726 BB	20141007	US20110250590	20110930
US8869103 BB	20141021	US20110250577	20110930
US9158654 BA	20151013	US20130904749	20130529
US9274928 BA	20160301	US20140230218	20140331
US9612806 BB	20170404	US20140475302	20140902
WO12170675 A2	20121213	WO2012US41329	20120607
WO12170675 A3	20130404	WO2012US41329	20120607

Priority:

US20080103161P 20081006	US20080103167P 20081006	US20090559233 20090914
US20110250590 20110930	US20090559250 20090914	US20110250577 20110930
US20110509371P 20110719	US20110494274P 20110607	WO2012US41329 20120607
US20140475302 20140902	US20130904749 20130529	US20140230218 20140331

Probable Assignee: MATHWORKS INC

Assignee(s): (std): CONRAD MIRKO ; ENGLEHART MATTHEW ; LIN XIAOCANG ; MATHWORKS INC ; THORNTON JOEL DAVID ; SHANKAR JAYA ; NIRAKH APPA RAO ; SZPAK PETER ; YAN JUN ; WNGLEHART MATTHEW

Assignee(s): THE MATHWORKS INC

Inventor(s): (std): ENGLEHART MATTHEW ; ENGLEHART MATTHEW J ; THORNTON JOEL ; THORNTON JOEL DAVID ; WNGLEHART MATTHEW ; YAN JUN ; SZPAK PETER S ; SZPAK PETER ; SHANKAR JAYAPRABHA ; SHANKAR JAYA ; NIRAKH APPA RAO ; LIN XIAOCANG ; CONRAD MIRKO

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; NELSON MULLINS RILEY AND SCARBOROUGH LLP; HARRITY AND HARRITY LLP; CANNING KEVIN J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR MAINTAINING DATA CONSISTENCY BETWEEN TWO DATABASES

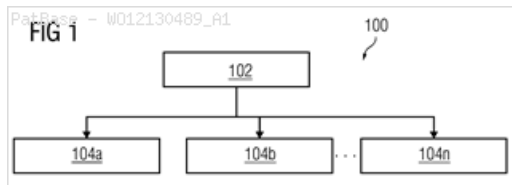
Abstract: The present invention provides a method, a system and a computer program product for maintaining data consistency between multiple databases. A **dependency graph** for a data **entity** is generated based on a declarative specification the data **entity**. A source instance and a destination instance of the **dependency graph** are instantiated. Each data record in the source instance and a corresponding data record in the destination instance are compared to ascertain data consistency therein. One or more database transactions are performed based on the result of such consistency analysis.

Classifications:

International (IPC 8-9): G06F17/30 (Advanced/Invention)

CPC: G06F17/30371 G06F17/30578

European: G06F17/30B G06F17/30S3N G06F17/30S7A



Family:

Publication number	Publication date	Application number	Application date
IN00470KO2011 A	20121116	IN2011KO00470	20110401
WO12130489 A1	20121004	WO2012EP50721	20120118

Priority:

IN2011KO00470 20110401

Probable Assignee: SIEMENS AG

Assignee(s): (std): SIEMENS AG ; SINGH HIMANSHU KUMAR

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): SINGH HIMANSHU KUMAR

Inventor(s): HIMANSHU KUMAR SINGH

Agent(s): SIEMENS AKTIENGESELLSCHAFT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 55023379 (US8572477B)

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Title: WEB-BASED INCREMENTAL COMPUTING

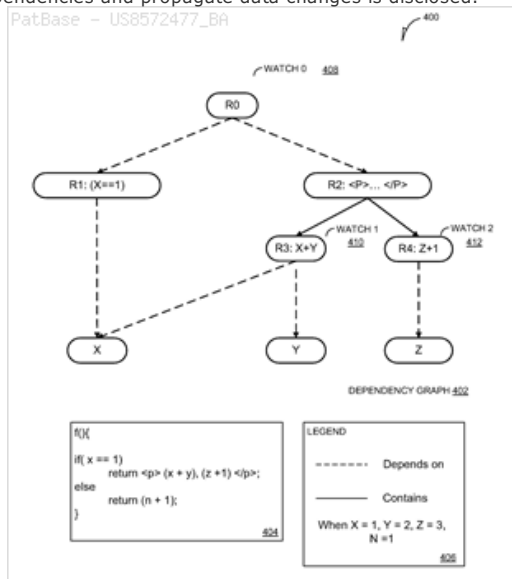
Abstract: Source: US8572477B A method and a system implementing web-based incremental computing. A webpage updates when a data value relevant to displayed information is altered and updates only those affected elements. A watch system monitors relevant data values and in conjunction with a dependency tree, may execute functions to alter only altered elements of a webpage. A framework to automatically track data dependencies and propagate data changes is disclosed.

Classifications:

International (IPC 8-9): G06F17/00 G06F17/17 (Advanced/Invention)

CPC: G06F17/30899 G06F17/30893 G06F9/45529

US: 715/200 715/234



Family:

Publication number	Publication date	Application number	Application date
US8572477 BA	20131029	US20110017730	20110131
US8627199 BA	20140107	US20110038356	20110301

Priority:

US20100299916P 20100129 US20110017730 20110131 US20110038356 20110301

Probable Assignee: ASANA INC

Assignee(s): (std): ASANA INC ; HANDLEY MALCOLM ; ROSENSTEIN JUSTIN ; MOSKOVITZ DUSTIN

Inventor(s): (std): HANDLEY MALCOLM ; MOSKOVITZ DUSTIN ; ROSENSTEIN JUSTIN

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

11) Family number: 55408477 (US2013346274A)

© PatBase

Title: ELECTRONIC FINANCIAL TRADING PLATFORM WITH REAL-TIME DATA ANALYSIS AND REPORTING

Abstract: Source: US2013346274A An electronic financial trading platform includes: at least one application module; and a memory manager configured to provide normalized access to data content for the at least one application module, in which

Classifications:
International (IPC 8-9): G06Q30/06 G06Q40/04 (Advanced/Invention)
CPC: G06Q40/04
US: 705/37

PatBase - US2013346274_A1									
Quick P&L Report For Demo/Division									
First Thru/End: Nov 30, 2011 (Last Row Data)									
Portfolio 010									
Strategy	Instrument Code	Type	SP Spot	Position	Entry Price	Market Price (Unrealized)	Realized	NOTAL P/L	
FX	MSFT	FX	1,000.00	102,000	24.821	26.32	152,808	-315.078	-162.180
FX	ESX1	FX	1,000.00	1,000.00	1.230	1.224	200.000	0.000	200.000
EURUSD									
FX	EURUSD SPOT	FX	105.4742	10,000,000	133.80	105.411	312.886	-315.879	37.309
							-3,055.671	3,134.114	-241.507
							3,165.871	-315.879	-441.548
FX	MSFT	FX	1,000.00	2,000	20.77	20.32	20,760	7,850	1,930
FX	12.75 0213	FX	1,000.00	100,000	103.18	103.52	103,520	340	-400 130
							-34.796	371.574	296.937
FX	PL to Bond positions								
FX	Oil SPOT	FX	0.9075	20,000,000	1.937	1.970	4,527.30	3,987.20	540.10
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	Oil SPOT	FX	0.9075	1,000,000	1.937	1.970	1,970	317.50	438.78
FX	Oil SPOT	FX	0.9075	20,000,000	1.937	1.985	4,025.30	26.83	164.37
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
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FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
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FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6	428.87	4.88
FX	BAR SPOT	FX	1.9074	20,000,000	1.9171	1.9707	3,917	157.95	234.47
FX	PLN 12.75 0213	FX	1.007	1,000,000	1.0104	1.0106	1,010.6		

Family:

Publication number	Publication date	Application number	Application date
EP2864948 A1	20150429	EP20130810091	20130625
EP2864948 A4	20160224	EP20130810091	20130625
US2013346274 AA	20131226	US20130842210	20130315
WO14004461 A1	20140103	WO2013US47544	20130625

Priority:

US20120663858P 20120625 US20130842210 20130315 WO2013US47544 20130625

Probable Assignee: LIQUID HOLDINGS GROUP INC

Assignee(s): (std): LIQUID HOLDINGS GROUP INC

Assignee(s): LIQUID HOLDINGS GROUP LLC

Inventor(s): (std): COOPER BRUCE ; FERDINAND BRIAN ; KELLER ROBERT ; KELLER ROBERT M ; TANDAU IOAN

Agent(s): PETERREINS FRANK; VALENTINO JOSEPH ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO PA PE PG PH PL PT QA RO RU RS SW SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UB UG US VC VN VA ZM ZW

12) Family number: 57593764 (US2014310697A)

Title: COMPILATION OF TRANSFORMATION IN RECALCULATION **USER** INTERFACE

Abstract: Source: US2014310697A The compilation a transformation chain of a recalculation **user** interface that displays an electronic canvas that contains one or more displayed result of a transformation chain. The transformation chain includes transforms between a respective data source and data sink. **User** editing of the recalculation **user** interface could cause one or more of the transforms to be re-executed, thereby causing recalculation. The compilation involves analyzing the transformation chain of the recalculation **user** interface for dependencies to create a **dependency graph** of dependencies between **entities**. For instance, some dependencies might be between **entities** so as to indicate that if one **entity** is evaluated, then the other should be also. The **dependency graph** is then used to create a lower level of execution steps. The **dependency graph** is further provided to a runtime for the program, so that the **dependency graph** may be available during operation of the recalculation **user** interface.

Classifications:

International (IPC 8-9): G06F G06F17/22 G06F17/24 G06F3/0481

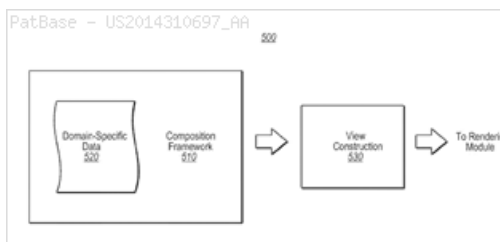
G06F9/44 G06F9/45 (Advanced/Invention);

G06F17/24 (Core/Invention);

G06F (Subclass/Invention)

CPC: G06F8/433 G06F17/246 G06F8/443 G06F9/4443

US: 1/1 717/154 717/155



Family:

Publication number	Publication date	Application number	Application date
AU2014250924 AA	20141016	AU20140250924	20140411
CA2908054 AA	20150924	CA20142908054	20140411
CL2015003015 A1	20160715	CL20150003015	20151009
CN105247510 A	20160113	CN201480020880	20140411
EP2984584 A2	20160217	EP20140723646	20140411
HK1215478 A1	20160826	HK20160103334	20160322
IL241761 A0	20151231	IL20140241761	20140411
IN06306CN2015 A	20160701	IN2015CN06306	20151012
JP2016522476 A2	20160728	JP20160507669	20140411
JP2016522476 T2	20160728	JP20160507669T	20140411
KR20150143658 A	20151223	KR20157032307	20140411
MX2015014301 A1	20151208	MX20150014301	20140411
PH2015502312 A	20160210	PH20150502312	20151006
RU2015142982 A	20170413	RU20150142982	20140411
SG112015082620 A1	20151127	SG20151108262	20140411

TH160724 A	20170309	TH20151006208	20140411
US2014310697 AA	20141016	US20130862277	20130412
US2016335063 AA	20161117	US20160220069	20160726
US9417890 BB	20160816	US20130862277	20130412
US9645801 BB	20170509	US20160220069	20160726
WO14169160 A2	20141016	WO2014US33708	20140411
WO14169160 A3	20150409	WO2014US33708	20140411

Priority:

US20130862277 20130412 US20160220069 20160726 WO2014US33708 20140411

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT TECH LICENSING LLC

Assignee(s): ANUAR NIZAM ; COLLE OLIVIER ; GRUIAN RADU B ; MITAL VIJAY ; REDDISH ANDREW DOUGLAS ; SARKAR JAIDEEP

Inventor(s): (std): ANUAR NIZAM ; ANUAR NIZAM N ; COLLE OLIVIER ; COLLE OLIVIER O ; DOUGLAS REDDISH ANDREW ; GRUIAN RADU B ; GRUIAN RADU B RB ; JAIDEEP SARKAR ; MITAL VIJAY ; MITAL VIJAY V ; NIZAM ANUAR ; OLIVIER COLLE ; REDDISH ANDREW DOUGLAS ; REDDISH ANDREW DOUGLAS AD ; SARKAR JAIDEEP ; SARKAR JAIDEEP J ; VIJAY MITAL

Inventor(s): ANDREW DOUGLAS REDDISH ; RADU B GRUIAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; ESTUDIO FEDERICO VILLASECA Y CIA; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; JESSICA; MICKY; FEHMI; WORKMAN NYDEGGER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 57593735 (US2014306964A)

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Title: INCREMENTAL COMPILING OF A DECLARATIVE PROGRAM

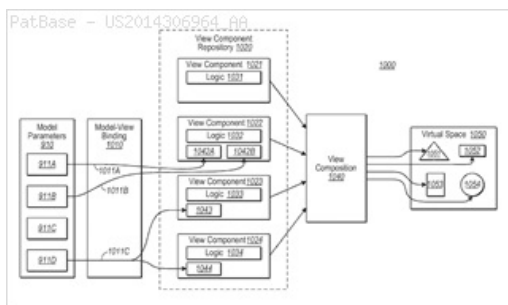
Abstract: Source: US2014306964A The incremental compiling of a recalculation **user** interface. As an example, the recalculation **user** interface may be a **spreadsheet** program although the principles may apply to an visualization of data sinks that are interconnected to data sources via a transformation chain. The transformation chain includes multiple declarative transformations. A **dependency graph** is generated through analysis of the declarative transformations of the transformation chain. As the **user** interacts with the recalculation **user** interface, the **user** may cause one or more changes to the transformation chain. The dependencies associated with the transformations may be identified and may be largely isolated. The compiler may then compile that one or more affected dependencies, without compiling the entire recalculation **user** interface.

Classifications:

International (IPC 8-9): G06F9/45 G06T11/20 (Advanced/Invention)

CPC: G06T11/206 G06F8/34 G06F8/433 G06F9/4436 G06F9/4443

US: 345/440



Family:

Publication number	Publication date	Application number	Application date
CN105210036 A	20151230	CN201480020911	20140411
EP2984563 A1	20160217	EP20140725585	20140411
US2014306964 AA	20141016	US20130862257	20130412
WO14169158 A1	20141016	WO2014US33706	20140411

Priority:

US20130862257 20130412 WO2014US33706 20140411

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): ANUAR NIZAM ; COLLE OLIVIER ; GRUIAN RADU B ; MITAL VIJAY ; REDDISH ANDREW DOUGLAS ; RUBIN DARRYL E ; SARKAR JAIDEEP

Agent(s): GRUENECKER PATENT U RECHTSANWALTE PARTG MBB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW