PatBase - Search results 19 September 2019

Search query (9): [SP]: 1. a method for receiving and executing a program, the method comprising: storing a linker/loader program receiving a first part of a file from a remote device, wherein the file comprises a plurality of components of a program execution system and a program, wherein the plurality of components are operable to execute the program storing the first part of the file executing the linker/loader program to create a first portion of a combined program from the first part of the file storing the first portion of the combined program deleting the first part of the file receiving a second part of the file from the remote device storing the second part of the file executing the linker/loader program to create a second portion of the combined program from the second part of the file storing the second portion of the combined program deleting the second part of the file and executing the first portion and the second portion of the combined program to execute the plurality of components to execute the program. 2. the method of claim 1, wherein the program comprises a graphical program, comprising a block diagram portion and a user interface portion wherein said receiving the program from the remote device comprises receiving the block diagram portion of the program from the remote device and wherein, during execution of the program, the block diagram executes using the program execution system and the graphical user interface is displayed on a display of the remote device. 3. the method of claim 1, wherein the program comprises a graphical program and wherein the graphical program comprises a plurality of interconnected nodes that visually indicate functionality of the graphical program. 4. the method of claim 1, wherein the combined program comprises the plurality of components of the program execution system and the program. 5. the method of claim 1, further comprising: wherein the plurality of components are selected out of a larger plurality of program execution components by programmatically analyzing the program to determine required components for execution of the program. 6. the method of claim 1, wherein the plurality of components are determined based on functionality present in the program. 7. the method of claim 1, wherein the file comprises a flat file, wherein the file is created by combining the plurality of components and the program into the file. 8. the method of claim 7, wherein said combining comprises interspersing the plurality of components with the program according to an execution order of the program and wherein the first and the second parts of the file are arranged according to the execution order of the program. 9. the method of claim 1, wherein the program execution system comprises one or more of: a minimal execution engine or a network manager. 10. the method of claim 1, wherein said executing the first portion and the second portion of the combined program comprises executing each of the first and the second portions of the combined program after said storing each respective portion of the combined program. 11. a computer-implemented method for creating and executing a program, the method comprising: generating a file based on a program and one or more execution modules, wherein the program is operable to execute on an embedded device, wherein the one or more execution modules are usable to execute the program, wherein the one or more execution modules comprise a minimal execution system transmitting the file to the embedded device, wherein the file is transmitted in two or more parts the embedded device receiving a first of the two or more parts of the file the embedded device constructing a combined program based on the first of the two or more parts of the file, wherein the combined program includes program code from the program and execution module code for executing the program code the embedded device deleting the first part of the file the embedded device receiving a second of the two or more parts of the file the embedded device constructing the combined program based on the second part of the file and the embedded device executing the program using the minimal program execution system. 12. the method of claim 11, further comprising: the embedded device deleting the second of the two or more parts of the file. 13. the method of claim 11, further comprising: programmatically analyzing the program to determine required execution modules for execution of the program and selecting the required execution modules in response to programmatically analyzing, wherein the required execution modules comprise the one or more execution modules. 14. the method of claim 11, wherein said generating the file comprises interspersing the execution modules with the program according to an execution order of the program and wherein the first and the second parts of the file are arranged according to the execution order of the program. 15. the method of claim 11, wherein the execution module code includes code from the one or more execution modules. 16. a method for receiving and executing a program, the method comprising: receiving a first part of a file, wherein the file comprises a plurality of components of a program execution system and a program storing the first part of the file in a memory linking the first part of the file into a combined program deleting the first part of the file from the memory receiving a second part of the file storing the second part of the file in the memory linking the second part of the file into the combined program deleting the second part of the file from the memory executing the combined program to execute the plurality of components to execute the program. 17. the method of claim 16, wherein the plurality of components is required for execution of the program and wherein the plurality of components is selected out of a larger plurality of program execution components by programmatically analyzing the program to determine required components for execution of the program. 18. the method of claim 16, wherein the file comprises a flat file, wherein the file is created by combining the plurality of components and the program into the file. 19. a method for receiving and executing a program, the method comprising: receiving a first part of a file from a remote device, wherein the file comprises a plurality of components of a program execution system and a program storing the first part of the file in a first memory creating a first portion of a combined program from the first part of the file storing the first portion of the combined program in a second memory deleting the first part of the file from the first memory receiving a second part of the file from the remote device storing the second part of the file in the first memory creating a second portion of the combined program from the second part of the file storing the second portion of the combined program in the second memory deleting the second part of the file from the second memory and executing the first portion and the second portion of the combined program to execute the plurality of components to execute the program. 20. the method of claim 19, wherein the plurality of components is required for execution of the program and wherein the plurality of components is selected out of a larger plurality of components of the program execution system by programmatically analyzing the program to determine required components for execution of the program. 21. the method of claim 19, wherein said executing the first portion and the second portion of the combined program comprises executing each of the first and the second portions of the combined program after said storing each respective portion of the combined program. 22. a method for receiving and executing a program, the method comprising: storing a linker/loader program receiving a first part of a file from a remote device, wherein the file comprises a plurality of components of a program execution system and a program, wherein the plurality of components are operable to execute the program storing the first part of the file executing the linker/loader program to create a first portion of a combined program from the first part of the file executing the first portion of the combined program to execute one or more of the plurality of components to execute the program deleting the first part of the file receiving a second part of the file from the remote device storing the second part of the file executing the linker/loader program to create a second portion of the combined program from the second part of the file and executing the second portion of the combined program to execute one or more of the plurality of components to execute the program. 23. the method of claim 22, wherein the file comprises a flat file, wherein the file is created by combining the plurality of components and the program into the file. 24. the method of claim 23, wherein said combining comprises interspersing the plurality of components with the program according to an execution order of the program and wherein the first and the second parts of the file are arranged according to the execution order of the program. 25. the method of claim 22, further comprising: deleting the second part of the file.

Results: 151

1) Family number: 57225000 (US2014237092A)

Title: CONTROLLING DEVICES USING CLOUD SERVICES AND DEVICE-AGNOSTIC PIPE MECHANISMS

Priority: US20130769392 20130218 EP20140709002 20140213 WO2014US16153 20140213 US20160001165 20160119 US20170471724 20170328

Family:

Publication number	Publication date	Application number	Application date
CN105075188 A	20151118	CN201480009188	20140213
CN105075188 B	20190104	CN201480009188	20140213
DE602014003404 D1	20161013	DE201460003404T	20140213
EP2957076 A1	20151223	EP20140709002	20140213
EP2957076 B1	20160831	EP20140709002	20140213
ES2604609 T3	20170307	ES20140709002T	20140213
US2014237092 AA	20140821	US20130769392	20130218
US2016134706 AA	20160512	US20160001165	20160119
US2017201586 AA	20170713	US20170471724	20170328
US9288102 BB	20160315	US20130769392	20130218
US9667727 BB	20170530	US20160001165	20160119
WO14127075 A1	20140821	WO2014US16153	20140213

Probable Assignee: MICROSOFT CORP

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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

International class (IPC 8-9): G06F13/40 G06F3/0484 G06J3/00 H04L12/24 H04L12/46 H04L29/08 H04Q1/50 (Advanced/Invention)

CPC: G06J3/00 H04L12/4633 H04Q1/50 H04Q2209/10 H04L41/12 H04L67/26 H04L41/22 H04L69/326 H04L67/10 G06F3/0484 H04L29/08567 H04L67/125 H04L67/36 G06F13/4022 G06F13/4068 H04L67/12

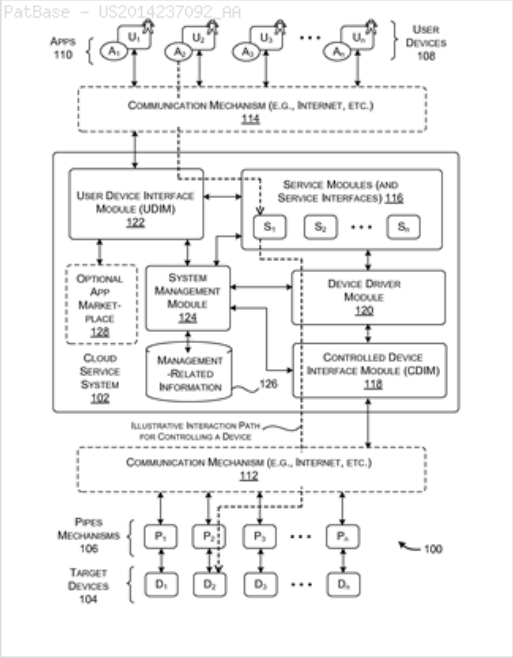
US class: 1/1 709/220 709/223

Classification Explorer

Cited documents: US8892767 BA, US8634573 BB, US8355826 BB, US8250215 BB, US8040888 BA, US8010993 BA, US7797733 BA, US7660871 BB, US7440408 BA, US7383325 BB, US6922598 BB, US6763226 BA, US6633929 BA, US6629166 BA, US6539433 BA, US6457081 BA, US6269473 BA, US6128733 A, US5787245 A, US5778189 A, US5606493 A, US2014237092 AA, US2014201321 AA, US2014157355 AA, US2014047124 AA, US2013268437 AA, US2013201316 AA, US2013183944 AA, US2013035077 AA, US2012254960 AA, US2012246319 AA, US2012173763 AA, US2012151104 AA, US2012117271 AA, US2012109395 AA, US2012105249 AA, US2012065787 AA, US2011295978 AA, US2011244919 AA, US2010276482 AA, US2010168914 AA, US2009305789 AA, US2009235000 AA, US2009199203 AA, US2008172479 AA, US2008080552 AA, US2008080552 AA, US2007300057 AA, US2007294593 AA, US2007286181 AA, US2007260331 AA, US2005261816 AA, US2005076125 AA, US2005076125 AA, US2004143641 AA, US2004005859 AA, US2003203734 AA, US2003182404 AA, US2003172077 AA, US2003093404 AA, US2002161946 AA, CN101826061 A,

Forward Citations: WO18129671, US9667727, US10362739, GB2528630,

Abstract:
An environment is described in which a cloud-implemented service system controls a plurality of target devices via a plurality of respective device-agnostic pipe mechanisms. The target devices themselves may represent "dumb" devices, e.g., lacking local control logic, or providing reduced reliance on local control logic. Users may interact with the service system via applications running on any type of user devices.



2) Family number: 23374038 (US2003196187A)

Title: SPECIFYING AND TARGETING PORTIONS OF A GRAPHICAL PROGRAM FOR REAL-TIME EXECUTION ON AN EMBEDDED PROCESSOR

Priority:
US19970912445 19970818
US20000617600 20000613
US20000631525 20000803
US20040772518 20040205
WO1998US10916 19980529
US20000096176 20000613
WO2000US22317 20000815
US20080143198 20080620
US19990149950P 19990819
US20000631528 20000803
US20030439440 20030516

Family:

Publication number	Publication date	Application number	Application date
AT214173 E	20020315	AT19980924969T	19980529
DE69804107 D1	20020411	DE19986004107	19980529
DE69804107 D1	20020411	DE19986004107T	19980529
DE69804107 T2	20020829	DE19986004107T	19980529
EP1004072 A1	20000531	EP19980924969	19980529
EP1004072 B1	20020306	EP19980924969	19980529
EP1216441 A1	20020626	EP20000957450	20000815
EP1216441 B1	20150527	EP20000957450	20000815
JP2003531414 T2	20031021	JP20010519261T	20000815
JP4982020 B2	20120725	JP20010519261T	20000815
US2003196187 AA	20031016	US20030439440	20030516
US2004158812 AA	20040812	US20040772518	20040205

US2009024981 AA	20090122	US20080143198	20080620
US6173438 BA	20010109	US19970912445	19970818
US6715139 BA	20040330	US20000631525	20000803
US6802053 BA	20041005	US20000617600	20000613
US8074203 BB	20111206	US20080143198	20080620
US8533670 BB	20130910	US20040772518	20040205
WO0114963 A1	20010301	WO2000US22317	20000815
WO9909473 A1	19990225	WO1998US10916	19980529

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Agent(s): HESELBERGER JOHANNES; MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC; JEFFREY C

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

International class (IPC 8-9): G06F15/16 G06F3/00 G06F3/048 G06F9/44 G06F9/445 (Advanced/Invention); G06F3/048 G06F9/44 G06F9/445 (Core/Invention)

International class (IPC 1-7): G06F3/00 G06F9/00 G06F9/44 G06F9/445

CPC: G06F8/34 G06F9/44505 G06F9/454

European class: G06F8/34 G06F9/445C G06F9/44W6

US class: 345/740 709/201 709/203 709/327 715/733 715/740 717/1 717/103 717/103S 717/105 717/105P 717/105S 717/107 717/107S 717/109 717/109P 717/110 717/113 717/113S 717/124 717/125 717/126 717/127 717/131 719/327 719/327S

Classification Explorer

Cited documents: WO9614618 A1, WO9415311 A1, WO9410627 A1, US7478337 BB, US6313851 BA, US6313815 BA, US6230307 BA, US6226776 BA, US6219628 BA, US6173438 BA, US6173438 B1, US6138150 A, US6102965 A, US6064409 A, US6020881 A, US5949412 A, US5838563 A, US5801689 A, US5784275 A, US5760788 A, US5737235 A, US5732277 A, US5724074 A, US5684980 A, US5652909 A, US5652875 A, US5638299 A, US5603043 A, US5583749 A, US5566295 A, US5555201 A, US5544320 A, US5541849 A, US5535342 A, US5497498 A, US5481741 A, US5481740 A, US5437464 A, US5377318 A, US5309556 A, US5283861 A, US5261043 A, US5109504 A, US4901221 A, US4849880 A, US4827404 A, US2003035010 AA, JP6230947 A2, JP10315171, JP10240337, EP0426909 A1, EP0398646 A2, EP0367709 A1,

Forward Citations: WO15152924, WO15012961, WO14021950, WO13123362, WO12016078, WO12015496, WO11112436, WO11015191, WO11015191, WO10135353, WO10135336, WO10060466, WO06066037, WO06066037, WO04006205, WO03027972, WO03027972, WO03027836, WO03025688, WO0231650, WO0169335, WO0169335, USD781890, USD553144, USD553143, USD553142, US9983559, US9946517, US9904523, US9904268, US9904263, US9904258, US9891806, US9846732, US9826031, US9817931, US9811233, US9665956, US9665923, US9652213, US9600785, US9383974, US9355000, US9342469, US9329909, US9310975, US9268619, US9235395, US9230295, US9207975, US9183360, US9182951, US9170922, US9152391, US9141515, US9141347, US9123002, US9047007, US9046881, US9026987, US9021440, US8959254, US8949772, US8935661, US8935404, US8930853, US8924925, US8875039, US8875033, US8868907, US8855981, US8855971, US8832646, US8819106, US8812269, US8806429, US8799852, US8788540, US8782525, US8760456, US8756046, US8732675, US8713540, US8713482, US8707190, US8701085, US8683426, 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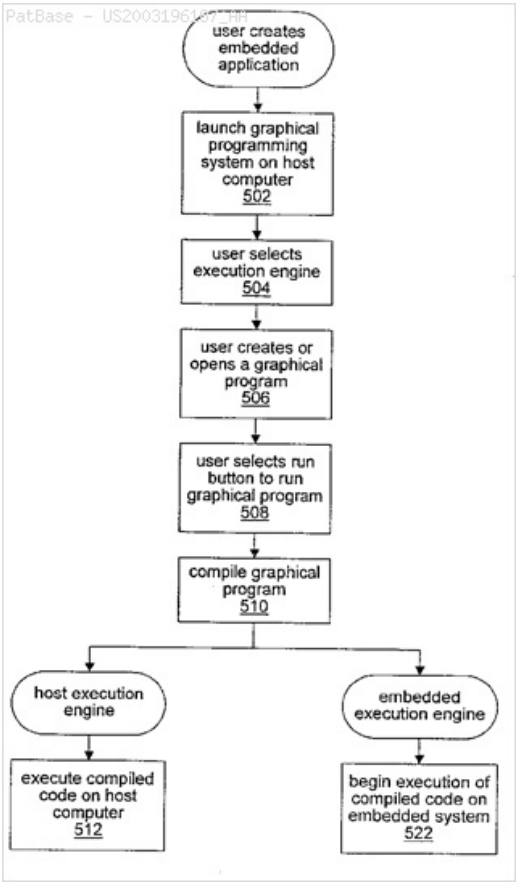
Abstract:
A computer-based virtual instrumentation system including a host computer and an embedded system or device, wherein graphical programs created using the computer system can be downloaded to the embedded system for execution in a real-time or more deterministic manner. The present invention thus provides a method for automatically generating an embedded application in response to a graphical program created by a user. This provides the user the ability to develop or define instrument functionality using graphical programming techniques, while enabling the resulting program to operate in an embedded real-time system. The invention includes a novel method for configuring the embedded system. During execution of a graphical program in the embedded system, the block diagram portion executes in the embedded system, and the host CPU executes front panel display code to display on the screen the graphical front panel of the graphical program. The embedded system and the host computer exchange data using a front panel protocol to enable this operation. The present invention also includes improved debugging support for graphical programs executing on the embedded system. The host graphical programming system thus provides the user interface for graphical programs executing on the embedded system, essentially acting as the front panel "browser" for embedded applications. The host LabVIEW can also act as an independent application communicating with embedded LabVIEW through the shared memory. The host graphical programming system further provides a seamless environment in which the user can develop an embedded application using high level graphical programming techniques.



3) Family number: 31034047 (US2004199897A)

Title:	DEPLOYMENT AND EXECUTION OF A GRAPHICAL PROGRAM ON AN EMBEDDED DEVICE FROM A PDA
Priority:	US20030459918P 20030403 US20030733735 20031211

Family:

Publication number	Publication date	Application number	Application date
US2004199897 AA	20041007	US20030733735	20031211

US7647562 BB	20100112	US20030733735	20031211

Probable Assignee: NATIONAL INSTRUMENTS CORP

Assignee(s):(std)**:** NAT INSTR CORP

Assignee(s): CETERAS CIPRIAN ; CRISAN GRATIAN I ; FOLEA SILVIU ; GHERCIOIU MARIUS ; HEDESIU HOREA ; MONOSES IOAN ; NATIONAL INSTRUMENTS CORP

Inventor(s):(std)**:** MONOSES IOAN ; CETERAS CIPRIAN ; CRISAN GRATIAN I ; FOLEA SILVIU ; HEDESIU HOREA ; GHERCIOIU MARIUS

Agent(s): MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC; JEFFREY C; MARK S

International class (IPC 8-9): G06F3/048 G06F9/445 (Advanced/Invention);
G06F3/01 (Advanced/Non-invention);
G06F3/048 G06F9/445 (Core/Invention);
G06F3/01 (Core/Non-invention)

International class (IPC 1-7): G06F9/445

CPC: G06F8/61

European class: G06F8/61

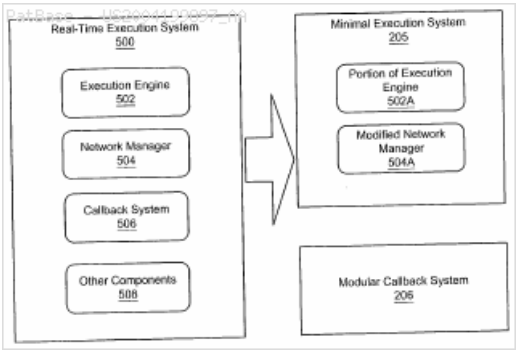
US class: 709/231 715/749 715/762 715/763 715/771 717/101 717/101P 717/109 717/109S 717/174 717/174S

Classification Explorer

Cited documents: US7484008 BA, US7406393 BB, US7206824 BB, US7202861 BB, US7197743 BB, US7120874 BB, US7061381 BB, US7020701 BA, US6880147 BA, US6751787 BA, US6282699 BA, US6270271 BA, US6199196 BA, US6173438 BA, US6173438 B1, US5920479 A, US5760788 A, US5724074 A, US5481741 A, US2004010734 AA, US2004005859 AA, US2004004637 AA, US2003036875 AA, US2003035004 AA, US2003014615 AA, US2002080174 AA, US2002055947 AA, US2001034879 AA,

Forward Citations: WO15096628, US9948382, US9866257, US9806796, US9665956, US9589167, US9461735, US9426185, US9329851, US9268619, US9152391, US9123002, US9026987, US8976767, US8868907, US8799852, US8762982, US8656373, US8589908, US8572556, US8490067, US8423981, US8402267, US8364786, US8358639, US8321850, US8225202, US8161471, US7975233, US7954059, US7950010, US7877727, US7765278, US7721260, US7636340, US7587080, US7509537, US7389472, US7200817, US2018026712, US2016241293, US2015111498, US2014260704, US2014136430, US2014032177, US2013067359, US2011219358, US2011154285, US2010293525, US2010293080, US2010286839, US2010279609, US2009307430, US2009293044, US2009286484, US2008244383, US2008148171, US2008134169, US2008046817, US2008040713, US2008034121, US2008028057, US2008022264, US2008022259, US2007150861, US2007126731, US2007094642, US2006168581, US2006168575, US2006161909, US2006088018, US2006069960, US2006035621, US2006020910, US2005102639, US2005060272, US2004225652, US10382122, US10318904, US10318903, US10205515, US10129226, US10096350, US10069561, TWI471800, CN106556690, CN105320537, CN105320537, CN104751092, CN104751092,

Abstract:
System and method for deploying and executing a program, e.g., a graphical program, on an embedded device, e.g., a compact sensor interface (CSI) that includes or is coupled to one or more sensors. The program is stored on a host mobile computer, e.g., a PDA, then downloaded to the CSI over a wired or wireless serial link, e.g., cable, infrared (IR), Bluetooth, etc. The embedded device executes the graphical program to perform the function, thereby generating data. The data is sent to the mobile computer over a wired or wireless serial link, e.g., via a Front Panel Protocol, where the data is displayed. Alternatively, the mobile computer executes a different program to perform a discovery operation to detect and establish communications with the embedded device, retrieves the data from the embedded device via a wireless serial transmission medium, e.g., IR link (e.g., IrDA), Bluetooth, etc., and displays the data.



4) Family number: 23169051 (US2002061758A)

Title: MOBILE WIRELESS LOCAL AREA NETWORK SYSTEM FOR AUTOMATING FLEET OPERATIONS

Priority: US20000249556P 20001117 US20010996027 20011115

Family:

Publication number	Publication date	Application number	Application date
US2002061758 AA	20020523	US20010996027	20011115

Probable Assignee: CROSSLINK INC

Assignee(s):(std)**:** CROSSLINK INC

Inventor(s):(std)**:** ZARLENGO GARY A ; HARDMAN GORDON EDWARD ; TUTTLE JOHN RANDALL ; PYNE JOHN W

International class (IPC 8-9): B60R16/02 B60R16/03 H04L12/28 (Advanced/Invention);
B60R16/02 B60R16/03 H04L12/28 (Core/Invention)

International class (IPC 1-7): H04Q7/20

CPC: G01D21/00 H04W24/10 H04W84/005 H04W84/12

European class: B60R16/02B4B G01D21/00 T04W24/10 T04W84/00M T04W84/12

US class: 370/338 455/517

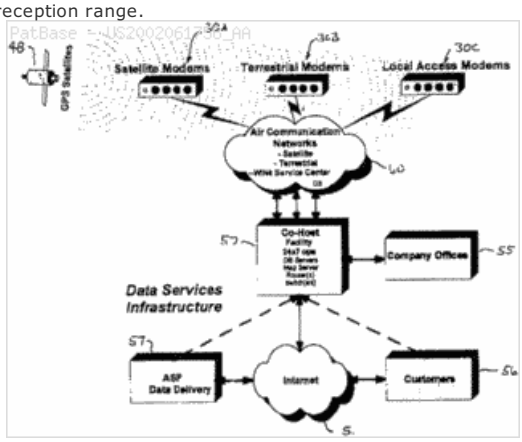
Classification Explorer

Cited documents: US6545601 BA, US6487426 BA, US6430485 BA, US6351977 BA, US6336126 BA, US5977913 A,

US5691980 A,

Forward Citations: WO19133533, WO10068642, WO10068642, WO09067694, WO09067694, US9958198, US9942526, US9928477, US9847029, US9811949, US9773222, US9761067, US9760851, US9760685, US9753970, US9747571, US9747329, US9739763, US9738156, US9728228, US9720480, US9701265, US9691195, US9679424, US9663127, US9639146, US9633327, US9633318, US9610955, US9594371, US9566910, US9554080, US9545881, US9536405, US9519876, US9501878, US9472029, US9418492, US9402060, US9298803, US9226004, US9211811, US9208129, US9201842, US9183679, US9111234, US9082103, US9042922, US9041561, US9015071, US9002679, US8989959, US8965841, US8892310, US8881586, US8880279, US8868288, US8786437, US8766797, US8560274, US8495179, US8482399, US8354927, US8310363, US8299920, US8255537, US8239169, US8149118, US8046193, US8041779, US7961094, US7936266, US7680086, US7592916, US7564350, US7532604, US7363195, US6978217, US2016267181, US2016133067, US2015345847, US2014087772, US2010141435, US2010049819, US2009281676, US2009228155, US2009160634, US2009146805, US2009015400, US2008272906, US2008252084, US2008231453, US2008231438, US2008228306, US2008191870, US2008174423, US2008108372, US2008094212, US2008088441, US2008086685, US2008086497, US2008086428, US2008086427, US2008086391, US2008086349, US2008086323, US2008086322, US2008086320, US2008084334, US2008084324, US2007132773, US2007124020, US2006015294, US2005232207, US2004243352, US2004100379, US2004095227, US2004047320, US2003210671, US2003083060, US10404951, US10372577, US10339732, US10249105, US10196071, US10118576, US10060827, US10053032, US10019858, EP2003549, EP1467295, DE112009003536, DE102012006863, CN102308073,

Abstract:
The present mobile wireless local area network system for automating fleet operations creates a short-range wireless local area network (wireless LAN) on a transportation vehicle, such as a: trailer, container, railroad car, ship, or the like. The mobile wireless LAN couples data to a LAN hub from a plurality of wireless sensors that are placed in various locations on the transportation vehicle and on the cargo that is contained in the transportation vehicle. The collected data represents various environmental and functional measurements associated with the transportation vehicle and the cargo. The mobile wireless LAN travels with the transportation vehicle and can interact with a hub on other compatible wireless LANs or wireless interfaces on the hub of a wireline-based LAN that are within data signal transmission and reception range.



5) Family number: 67811052 (US9843651B)

Title: SYSTEMS AND METHODS OF LOCALIZING DISTRIBUTED SOFTWARE APPLICATIONS

Priority: US20150976652 20151221

Family:

Publication number	Publication date	Application number	Application date
US9843651 BA	20171212	US20150976652	20151221

Probable Assignee: QUEST SOFTWARE INC

Assignee(s):(std)**:** DELL SOFTWARE INC

Assignee(s): CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; DELL PRODUCTS LP ; QUEST SOFTWARE INC ; WYSE TECHNOLOGY LLC ; QUEST SOFTWARE INC F K A DELL SOFTWARE INC ; AVENTAIL LLC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS

Inventor(s):(std)**:** AH KIOON MARY CINDY ; WU GUOXIONG ; QIAN LIJUN

Agent(s): WINSTEAD PC

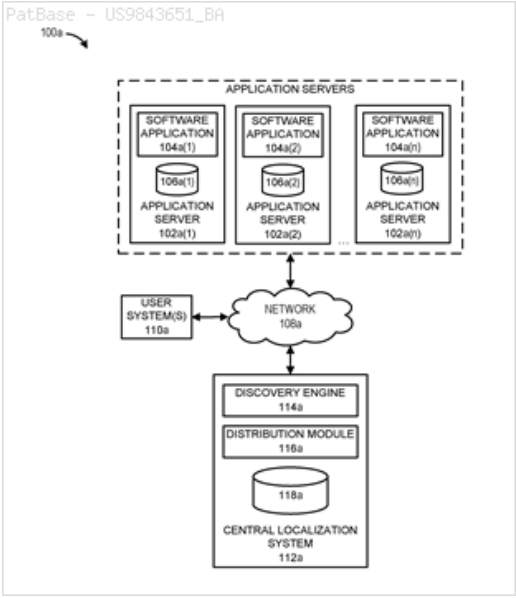
International class (IPC 8-9): G06F9/44 G06F9/445 H04L29/08 (Advanced/Invention)

CPC: H04L67/34 G06F9/454

Classification Explorer

Cited documents: US9009693 BB, US8972973 BB, US8918776 BB, US8726147 BA, US8612967 BA, US8522206 BB, US8407683 BB, US8302093 BB, US7971202 BB, US7913235 BB, US7890543 BB, US7568018 BA, US7496910 BB, US7373643 BB, US7340737 BB, US7150014 BB, US7073172 BB, US6789255 BA, US6367077 BA, US5596702 A, US2014201643 AA, US2012324418 AA, US2012291009 AA, US2011179073 AA, US2010146378 AA, US2009276206 AA, US2009037830 AA, US2008288955 AA, US2006041879 AA, US2004199392 AA,

Abstract:
In one embodiment, a method includes, responsive to a trigger, automatically discovering localization value sets that are maintained at a plurality of application servers which execute a particular software application such that each localization value set comprises language-specific key-value pairs for user-interface display items of the particular software application and such that the discovering yields an overall collection of localization value sets. The method further includes determining a localization value set of the overall collection that is not stored at the computer system. In addition, the method includes storing the determined localization value set at the computer system.



6) Family number: 62229064 (US9329840B)

Title:	GRAPHICAL PROGRAMMING OF CUSTOM DEVICE DRIVERS
Priority:	US20050324086 20051230 US20140264436 20140429

Family:

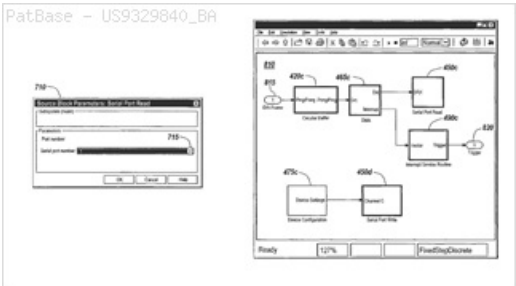
Publication number	Publication date	Application number	Application date
US9329840 BA	20160503	US20140264436	20140429

Probable Assignee:	MATHWORKS INC
Assignee(s):(std):	MATHWORKS INC
Inventor(s):(std):	GALIJASEVIC ZIJAD ; KOH DAVID
Agent(s):	HARRITY AND HARRITY LLP
International class (IPC 8-9):	G06F9/44 (Advanced/Invention)
CPC:	G06F8/34 G06F8/35
US class:	1/1

Classification Explorer

Cited documents:	US7565631 BA, US7290244 BB, US6996799 BA, US6965800 BB, US6965769 BB, US6219628 BA, US6161154 A, US5781797 A, US5613123 A, US5440740 A, US5339432 A, US5313615 A, US5301336 A, US4821172 A, US2007088865 AA, US2006041860 AA, US2006026307 AA, US2006015862 AA, US2005289274 AA, US2004078180 AA, US2004005859 AA, US2003192032 AA, US2003074489 AA, US2003018953 AA, US2003005179 AA, US2002080174 AA,
Forward Citations:	US2017300302, US10089081,

Abstract:
The present invention provides a set of blocks for creating device drivers. Since, for most computational devices, device driver code to configure and control an I/O interface may be decomposed into a small finite number of common software functions, by providing a block set comprising blocks representing the finite number of common software functions, custom device drivers can be created for any number of devices. Thus, by providing a set of generalized device driver blocks that can be parameterized by the user, specific instances of custom device drivers can be created as needed. Processor and device specific driver code can then be generated from the custom device driver.



7) Family number: 20388081 (US5838683A)

Title:	Distributed interactive multimedia system architecture
Priority:	US19950402834 19950313 WO1996US02910 19960304 US19980164503 19980930 US20010968402 20010927

Family:

Publication number	Publication date	Application number	Application date
AU199651807 A1	19961002	AU19960051807	19960304
US5838683 A	19981117	US19950402834	19950313

US6304576 BA	20011016	US19980164503	19980930
US7058067 BA	20060606	US20010968402	20010927
WO9628920 A2	19960919	WO1996US02910	19960304
WO9628920 A3	19961212	WO1996US02910	19960304

Probable Assignee: CISCO SYSTEMS INC

Assignee(s):(std)**:** CISCO TECH INC ; CISCO TECH IND ; CISCO TECHNOLOGY INC ; SELSIUS SYSTEMS INC ; INTECOM INC

Assignee(s): CISCO SYSTEMS INC ; CISCO TECHNOLOGY INC A OF CALIFORNIA CORP

Inventor(s):(std)**:** CHRISTOPHER E PEARCE ; CORLEY ROBERT DAVID ; DUNLAP RICHARD A ; HAHN PAUL S ; MCCLUNG MICHAEL H ; MICHAEL H MCCLUNG ; PAUL S HAHN ; PEARCE CHRISTOPHER E ; PLATT RICHARD B ; RICHARD A DUNLAP ; RICHARD B PLATT ; ROBERT DAVID CORLEY

Agent(s): BAKER BOTTS LLP

Designated states: AL AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TR TT UA UG UZ VN

International class (IPC 8-9): H04L12/28 H04L12/56 H04L29/06 H04Q11/04 (Advanced/Invention);
H04L12/56 (Advanced/Non-invention);
H04L12/28 H04L29/06 H04Q11/04 (Core/Invention);
H04L12/56 (Core/Non-invention)

International class (IPC 1-7): H04J3/24 H04L29/06

CPC: H04L29/06 H04L2012/5615 H04L2012/5663 H04Q11/0478 H04L29/06027 H04L65/1046 H04L65/1069 H04L65/80

European class: H04L29/06 H04L29/06C2 H04Q11/04S2 T04L12/56A18E T04L12/56A7B

US class: 370/216 370/408 370/416 704/270.1

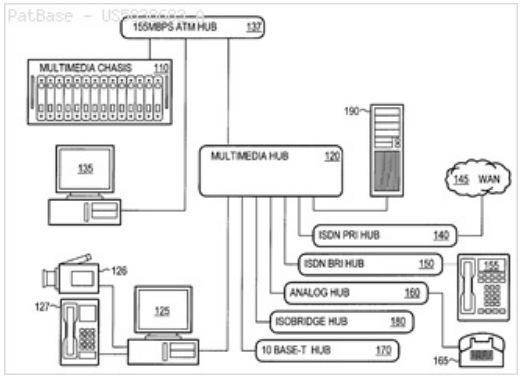
Classification Explorer

Cited documents: WO9316545 A1, US6304576 BA, US5953350 A, US5933607 A, US5862134 A, US5838683 A, US5742596 A, US5659542 A, US5574724 A, US5570417 A, US5555017 A, US5550906 A, US5544163 A, US5524110 A, US5521971 A, US5509010 A, US5504744 A, US5490252 A, US5455861 A, US5446735 A, US5436617 A, US5392402 A, US5384771 A, US5381413 A, US5357507 A, US5331636 A, US5315586 A, US5313463 A, US5309437 A, US5305318 A, US5301303 A, US5295133 A, US5293488 A, US5287103 A, US5276681 A, US5274631 A, US5265092 A, US5251205 A, US5241682 A, US5241580 A, US5235595 A, US5235592 A, US5229994 A, US5222136 A, US5222120 A, US5199074 A, US5195086 A, US5184345 A, US5168515 A, US5166894 A, US5153877 A, US5142622 A, US5133053 A, US5099515 A, US5088090 A, US5088032 A, US5060228 A, US5051982 A, US5043981 A, US5018137 A, US4984264 A, US4979168 A, US4972479 A, US4964119 A, US4947387 A, US4933931 A, US4924510 A, US4907267 A, US4905231 A, US4903261 A, US4899385 A, US4897841 A, US4893307 A, US4893304 A, US4878240 A, US4872159 A, US4870641 A, US4868813 A, US4864566 A, US4864560 A, US4853955 A, US4823380 A, US4811335 A, US4763317 A, US4748658 A, US4720850 A, US4713806 A, US4710917 A, US4707827 A, US4706081 A, US4704724 A, US4654845 A, US4651318 A, US4596010 A, US4567589 A, US4535448 A, US4530051 A, US4528658 A, US4512016 A, US4497979 A, US4488004 A, US4475156 A, US4445116 A, US4442321 A, US4412282 A, US4389720 A, US4367374 A, US4322843 A, US4322745 A, US4317962 A, US4296403 A, US4256926 A, US4228536 A, US4191860 A, US4139739 A, US4070551 A, US4058672 A, US4028495 A, US3975595 A, US3934095 A, US3912873 A, US3862370 A, US3860761 A, US3784752 A, US3775562 A, US3736383 A, US3736381 A, US3728681 A, US3692946 A, US3689703 A, US3634627 A, US3591724 A, US3576398 A, US3573740 A, US3560663 A, US3553385 A, US3496301 A, US3492435 A, US3492433 A, US3223784 A, US3189687 A, EP0631456 A2, EP0629065 A2, EP0583094 A2, EP0540258 A2, EP0511925 A2, EP0375032 A1,

Forward Citations: WO09154672, WO09083893, WO09083893, WO08130708, WO04006205, WO03047136, WO03044628, WO03044628, WO0218965, WO02101552, WO02078303, WO0077990, USRE42995, USRE41811, US9985800, US9832536, US9812825, US9806988, US9774746, US9712341, US9667534, US9609388, US9584959, US9578375, US9525620, US9485539, US9467741, US9456248, US9450882, US9420341, US9219677, US9197435, US9190063, US9124607, US9112952, US9076448, US9075136, US9049019, US9036499, US9019838, US9015471, US9001990, US8942107, US8902760, US8867529, US8793764, US8762152, US8737597, US8730970, US8630299, US8595478, US8583157, US8560828, US8555371, US8539237, US8532092, US8520828, US8483206, US8442037, US8352277, US8345711, US8341288, US8335222, US8321567, US8243627, US8239848, US8229734, US8224337, US8213440, US8199898, US8195147, US8094647, US8087064, US8078715, US8077738, US8074201, US8073127, US8059667, US8050253, US8035862, US7995461, US7974277, US7925732, US7912858, US7912702, US7873519, US7856094, US7839802, US7831426, US7804818, US7801984, US7801021, US7788345, US7765278, US7760708, US7738445, US7733845, US7729904, US7725321, US7725320, US7725307, US7715412, US7702508, US7698131, US7672841, US7672249, US7657424, US7647225, US7636349, US7624007, US7606905, US7606879, US7606246, US7599719, US7587493, US7580999, US7558863, US7555431, US7554974, US7529826, US7526533, US7499977, US7463621, US7443865, US7440463, US7426218, US7420932, US7412051, US7408940, US7397363, US7386632, US7370102, US7359368, US7340737, US7307980, US7307956, US7301900, US7281040, US7277010, US7272649, US7266686, US7221673, US7216348, US7209475, US7197549, US7185287, US7173911, US7165122, US7165117, US7151614, US7149208, US7145899, US7145898, US7142550, US7139380, US7095751, US7085913, US7080153, US7058067, US7054819, US7043537, US7020164, US6988148, US6958972, US6950213, US6898186, US6895434, US6879562, US6871224, US6870812, US6851116, US6847634, US6807185, US6801341, US6798746, US6765918, US6765902, US6754181, US6748446, US6735208, US6731625, US6721791, US6718376, US6690654, US6683938, US6671061, US6665822, US6665293, US6662241, US6654801, US6654348, US6650440, US6643260, US6625142, US6618389, US6606298, US6600750, US6587480, US6587460, US6580695, US6563599, US6559980, US6522668, US6490290, US6490289, US6483870, US6480531, US6473404, US6466977, US6456594, US6442758, US6427174, US6370141, US6366587, US6363065, US6335927, US6321253, US6298383, US6256320, US6243749, US6216157, US6151325, US6108696, US6041343, US5999565, US5941951, US2012196574, US2011191753, US2010226364, US2010189249, US2010016031, US2010011246, US2009305688, US2009296694, US2009168776, US2008310402, US2008292088, US2008285438, US2008260119, US2008256620, US2008198999, US2008198996, US2008181382, US2008168137, US2008034121, US2007245412, US2007127445, US2007099683, US2007094032, US2007047469, US2006268754, US2006253896, US2006251054, US2006209791, US2006195323, US2006183514, US2006168160, US2006122834, US2006089988, US2005240795, US2005213164, US2005210081, US2005203994, US2005198545, US2005198294, US2005174990, US2005157664, US2005147088, US2005125696, US2005111360, US2005091304, US2005086059, US2004255148, US2004240427, US2004160319, US2004153755, US2004059773, US2004052340, US2004010734, US2004005859, US2004004637, US2003154324, US2002176557, US2002141430, US2002116251, US2001013066, US10152876, US10011247, EP2003549, EP2003549, EP0859496, EP0859496,

Abstract:
Various aspects of an interactive multimedia system and associated methods. In general, the multimedia system employs central and peripheral hubs that function to provide services to a plurality of clients of a call manager server, or manager subsystem. The hubs and subsystem cooperate to serve requests originating in the plurality of clients. The client-server-client architecture

allows for distributed processing and resource management. Redundant connections between the various network subsystems and hubs provide survivability. Each subsystem or hub is provided with the ability to initialize or recover from systemic errors, thereby distributing initialization and recovery. Certain of the distributed resources are capable of being managed from other subsystems, thereby allowing sharing of the resources. An open numbering plan allows efficient call treatment of dialed numbers. Call processing is sharable between multiple manager subsystems. Finally, an iterative process is employed to ensure that calls routed through the network travel the shortest possible path.



8) Family number: 58776090 (US2015220080A)

Title: MANAGING BIG DATA IN PROCESS CONTROL SYSTEMS

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Family:

Publication number	Publication date	Application number	Application date
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CN104914807 B	20190329	CN201510113223	20150316
CN105005274 A	20151028	CN201510049715	20150130
CN105005274 B	20190104	CN201510049715	20150130
CN105373091 A	20160302	CN201510490839	20150811
CN105373091 B	20190604	CN201510490839	20150811
CN105487499 A	20160413	CN201510640227	20150930
CN105487501 A	20160413	CN201510641015	20150930
CN106796419 A	20170531	CN201580054441	20151005
CN106933204 A	20170707	CN201610885149	20161010
CN106933205 A	20170707	CN201610885273	20161010
CN106933206 A	20170707	CN201610885292	20161010
CN106933207 A	20170707	CN201610885758	20161010
CN106933208 A	20170707	CN201610885816	20161010
CN109901533 A	20190618	CN201910079631	20150811
CN110244642 A	20190917	CN201910634953	20151005
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DE102015113054 A1	20160225	DE201510113054	20150807
DE102015116825 A1	20160407	DE201510116825	20151005
DE102015117015 A1	20160407	DE201510117015	20151006
DE102016119066 A1	20170413	DE201610119066	20161007
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DE102016119178 A1	20170413	DE201610119178	20161010
DE102016119186 A1	20170413	DE201610119186	20161010
DE112015004578 T5	20170824	DE201511004578T	20151005
GB201501042 A0	20150304	GB20150001042	20150121
GB201503743 A0	20150422	GB20150003743	20150305
GB201513617 A0	20150916	GB20150013617	20150731
GB201517035 A0	20151111	GB20150017035	20150925
GB201517038 A0	20151111	GB20150017038	20150925
GB201617019 A0	20161123	GB20160017019	20161007
GB201617020 A0	20161123	GB20160017020	20161007
GB201617021 A0	20161123	GB20160017021	20161007
GB201617022 A0	20161123	GB20160017022	20161007
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GB201704515 A0	20170503	GB20170004515	20151005
GB201901546 A0	20190327	GB20190001546	20140211
GB2523893 A1	20150909	GB20150001042	20150121
GB2524176 A1	20150916	GB20150003743	20150305
GB2524176 B2	20190717	GB20150003743	20150305
GB2530630 A1	20160330	GB20150013617	20150731

GB2530630 B2	20190206	GB20150013617	20150731
GB2532849 A1	20160601	GB20150017038	20150925
GB2534628 A1	20160803	GB20150017035	20150925
GB2543951 A1	20170503	GB20160017019	20161007
GB2545302 A1	20170614	GB20160017021	20161007
GB2545303 A1	20170614	GB20160017023	20161007
GB2545535 A1	20170621	GB20160017020	20161007
GB2545774 A1	20170628	GB20160017022	20161007
GB2548021 A1	20170906	GB20170004515	20151005
JP2015146183 A2	20150813	JP20150015738	20150129
JP2015176609 A2	20151005	JP20150052138	20150316
JP2016038919 A2	20160322	JP20150159015	20150811
JP2016076217 A2	20160512	JP20150198445	20151006
JP2016076218 A2	20160512	JP20150198446	20151006
JP2017076384 A2	20170420	JP20160198938	20161007
JP2017076385 A2	20170420	JP20160198939	20161007
JP2017076386 A2	20170420	JP20160198940	20161007
JP2017076387 A2	20170420	JP20160198941	20161007
JP2017079057 A2	20170427	JP20160198942	20161007
JP2017531264 T2	20171019	JP20170518462T	20151005
US2015220080 AA	20150806	US20140169965	20140131
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US2016098037 AA	20160407	US20150873721	20151002
US2016098647 AA	20160407	US20140507252	20141006
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US9665088 BB	20170530	US20140169965	20140131
US9772623 BB	20170926	US20160212399	20160718
US9804588 BB	20171031	US20140212411	20140314
US9823626 BB	20171121	US20140507188	20141006
US10168691 BB	20190101	US20150873721	20151002
US10282676 BB	20190507	US20140507252	20141006
US10386827 BB	20190820	US20160274207	20160923
WO16057365 A1	20160414	WO2015US53931	20151005

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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 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

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US class: 1/1 700/11 700/17 700/19 700/20 700/21 700/29 700/47 700/51 700/66 700/79 706/12 707/760 713/168

Classification Explorer

Cited documents: WOWO0250971, WO16057365 A1, WO15138706 A1, WO14145801 A2, WO14005073 A1, WO12177812 A1, WO12129400 A2, WO12096877 A1, WO12022381 A1, WO12016012 A2, WO11120625 A1, WO10041462 A1, WO09046095 A1, WO09021900 A1, WO08042786 A2, WO07052342 A1, WO05109123 A1, WO05083533 A1, WO03073688 A1, WO0250971 A1, WO0237246 A2, USRE41228 E, USRE40817 E, USD387750 S1, USD384052 S1, USD384051 S1, USD384050 S1, US9892353 BA, US9804588 BB,

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US6078320 A, US6064409 A, US6032208 A, US6009422 A, US5995916 A, US5990906 A, US5988847 A,
US5987246 A, US5980078 A, US5971747 A, US5940294 A, US5917489 A, US5909368 A, US5862054 A,
US5862052 A, US5856931 A, US5838563 A, US5828851 A, US5821934 A, US5801946 A, US5801942 A,
US5737622 A, US5734863 A, US5732277 A, US5652909 A, US5610828 A, US5598572 A, US5568491 A,
US5544320 A, US5497500 A, US5481741 A, US5481740 A, US5475851 A, US5301336 A, US5301301 A,
US5291587 A, US5164897 A, US5111531 A, US4914568 A, US4901221 A, US4593367 A, US4451047 A,
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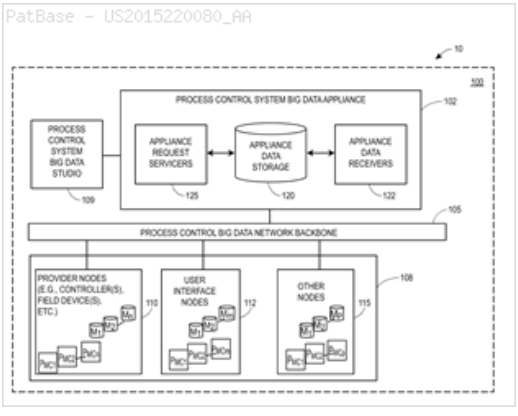
Forward Citations: WO19138122, WO19138120, WO19138118, WO19035279, WO19006639, WO18217280, WO18204540, WO18106726, WO18093756, WO17214001, WO17212486, US9996662, US9990596, US9990385, US9971317, US9948655, US9946780, US9940406, US9886012, US9866635, US9843617, US9838476, US9825949, US9825818, US9823626, US9804588, US9778626, US9772623, US9740802, US9697170, US9678484, US9665088, US9614963, US9606958, US9588514, US9558220, US9541905, US9535415, US9397836, US2017315543, US2017199843, US2017132326, US2017124464, US2017108854, US2016274937, US2016179063, US2016161930, US2016099841, US2015278394, US2015277406, US2015248446, US2014280678, US2013024542, US10416660, US10416639, US10416638, US10416637, US10416636, US10416635, US10416634, US10416633, US10416632, US10409247, US10409246, US10409245, US10404787, US10404569, US10394784, US10394210, US10386827, US10380280, US10374968, US10366111, US10366061, US10365625, US10359751, US10356090, US10348810, US10348498, US10345798, US10345777, US10338982, US10338555, US10338554, US10338553, US10338551, US10334048, US10331380, US10324423, US10311363, US10311015, US10296668, US10296656, US10296515, US10291596, US10282676, US10277668, US10275402, US10270796, US10270707, US10223327, US10222787, US10218694, US10208947, US10185773, US10168691, US10152031, US10147110, US10133243, US10127352, US10122806, US10121349, US10114923, US10095202, US10095200, US10037303, US10031490, US10031489, US10015106, GB2545303, GB2543951, GB2536339, GB2524176, EP3511784, EP3511783, EP3511782, EP3336638, DE102018204972, DE102018101201, CN108369404, CN108369404, CN107505884, CN106027240, CN106027240,

Abstract:
A big data network or system for a process control system or plant includes a data storage device configured to receive process control data from control system devices and store the process control data. The big data network or system identifies various parameters or attributes from the process control data, and creates and uses rowkeys to store the parameters according to various combinations, such as combinations using timestamps. The big data network or system may also store certain aggregate data analyses associated with time periods specified by the timestamps. Accordingly, the big data network or system efficiently stores real-time data having measurements within a database schema, and users or administrators can leverage the aggregate data to analyze certain data associated with certain time periods.



9) Family number: 58289090 (US2015019692A)

Title: METHOD AND APPARATUS FOR FIRMWARE VIRTUALIZATION

Priority: US20130845395P 20130712 US20140328415 20140710 WO2014US46215 20140710 US20170823508 20171127

Family:

Publication number	Publication date	Application number	Application date
CA2915695 AA	20151215	CA20142915695	20140710
CN105765533 A	20160713	CN201480038517	20140710
CN105765533 B	20190301	CN201480038517	20140710
EP3019956 A1	20160518	EP20140823798	20140710
EP3019956 A4	20170315	EP20140823798	20140710

HK1225471 A1	20170908	HK20160113791	20161202
IN03508MN2015 A	20160715	IN2015MN03508	20151209
JP2016529602 T2	20160923	JP20160525493T	20140710
JP6464162 B2	20190206	JP20160525493T	20140710
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SG11201600194S A1	20160226	SG20161100194	20140710
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WO15006599 A1	20150115	WO2014US46215	20140710

Probable Assignee: CIAMBELLA LTD

Assignee(s):(std)**:** CAMBELLA LTD ; CHANDARIA TRISALA ; CIAMBELLA LTD ; LEONELLI JEAN BAPTISTE

Inventor(s):(std)**:** CHANDARIA TRISALA ; LEONELLI JEAN BAPTISTE ; CHANDARA TRSALA ; LEONELL JEAN BAPTSTE

Agent(s): DEETH WILLIAMS WALL LLP; AWAPATENT AB; SPRUSON AND FERGUSON HONG KONG LTD; MOSER TABOADA; YEUNG MATTHEW M

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

International class (IPC 8-9): G06F G06F15/16 G06F8/60 G06F9/44 G06F9/4401 G06F9/445 G06F9/455 G06F9/54
H04L29/08 (Advanced/Invention);
G06F8/654 (Advanced/Non-invention)

CPC: G06F8/60 G06F9/455 H04L67/10 G06F9/4416 G06F9/45558 H04L67/34 G06F8/654

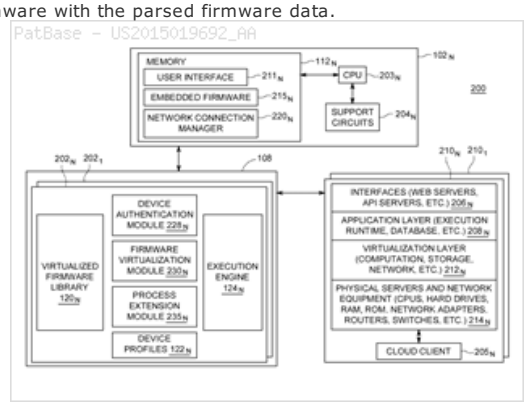
US class: 1/1 709/219

Classification Explorer

Cited documents: WO14204989 A1, WO13058768 A1, WO13058768, US9148413 BA, US8990787 BB, US8352903 BA, US8086744 BB, US7246319 BB, US6895573 BB, US6266809 BA, US6158031 A, US6108715 A, US5623604 A, US2016357526 AA, US2015286362 AA, US2015127192 AA, US2015045960 AA, US2014372975 AA, US2014372963 AA, US2014123124 AA, US2013275560 AA, US2013201316 AA, US2013125107 AA, US2012311526 AA, US2012233588 AA, US2012198434 AA, US2012036493 AA, US2011295391 AA, US2011271269 AA, US2011246891 AA, US2011238969 AA, US2010299187 AA, US2010271989 AA, US2010010908 AA, US2009198770 AA, US2009095807 AA, US2008092073 AA, US2008082603 AA, US2007234341 AA, US2007186246 AA, US2007056024 AA, US2006277328 AA, US2006271537 AA, US2006122730 AA, US2005283786 AA, US2005177269 AA, US2005114854 AA, US2004267926 AA, US2004249944 AA, US2004221238 AA, US2004010734 AA, US2003177208 AA, US2002194313 AA, US2002194313, KR20080044576 A, JP2016112651 A2, JP2011150430 A2, JP2010539600 T2, JP2008021095 A2, JP2006216048 A2, JP2006216048, CN1821964 A, CN102479079 A, CN102271153 A, CN102262557 A, CN102177501 A, CN101438299 A, CN101373441 A,

Forward Citations: CN106897027, CN106301914,

Abstract:
A system and method operative to virtualize firmware of a user device that stores virtualized firmware for a user device on a remote server and receives firmware data from the user device via a network. The method parsing the firmware data, assigning the parsed firmware data to a corresponding virtualized firmware stored on the remote server, and inserting the parsed firmware data into the corresponding virtualized firmware. The method deploying at least one remote process to access remote services offered by the remote server based on the corresponding virtualized firmware with the parsed firmware data.



10) Family number: 40802091 (US2008058969A)

Title: GRAPHICAL PROGRAMMING LANGUAGE OBJECT EDITING AND REPORTING TOOL

Priority: US20060469827 20060901 CN200710135730 20070810 JP20070225902 20070831 JP20130196452 20070831 JP20150096445 20070831 JP20150096445 20150511 JP20170076243 20170406

Family:

Publication number	Publication date	Application number	Application date
CN101135891 A	20080305	CN200710135730	20070810
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DE102007040823 A1	20080403	DE200710040823	20070829
GB200717004 A0	20071010	GB20070017004	20070831
GB2441861 A1	20080319	GB20070017004	20070831
HK1109809 A1	20080620	HK20080103851	20080407
HK1109809 A3	20080620	HK20080103851	20080407
JP2008059594 A2	20080313	JP20070225902	20070831
JP2014041624 A2	20140306	JP20130196452	20130924

JP2015187873 A2	20151029	JP20150096445	20150511
JP2017142839 A2	20170817	JP20170076243	20170406
JP5905182 B2	20160420	JP20070225902	20070831
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US7668608 BB	20100223	US20060469827	20060901

Probable Assignee: FISHER ROSEMOUNT SYSTEMS INC

Assignee(s):(std)**:** FISHER ROSEMOUNT SYSTEMS INC

Assignee(s): FISHER ROSEMOUNT SYST INC ; FISHER ROSEMOUNT SYSTEMS

Inventor(s):(std)**:** CRANDALL BRIAN ; NIXON MARK J ; ZHOU LING ; JUNDT LARRY O ; JUNDT LARRY OSCAR ; BRIAN CRANDALL ; LING ZHOU ; LARRY O JUNDT ; MARK J NIXON

Inventor(s): LARRY OSCAR JUNDT

Agent(s): STEPHENSON HARWOOD AND LO; ORTEGA; MARSHALL GERSTEIN AND BORUN LLP FISHER; MARSHALL GERSTEIN AND BORUN LLP

International class (IPC 8-9): G05B19/04 G05B19/042 G05B19/05 G05B19/418 G06F G06F17/50 G06F8/34 G06F9/44 (Advanced/Invention);
G05B19/04 G06F17/50 G06F9/44 (Core/Invention)

CPC: Y10S715/967 G05B19/0426 Y02P90/265

European class: G05B19/042P G06F9/44G2G G06F9/44G4

US class: 700/87 700/87P 715/763 715/967 717/105

Classification Explorer

Cited documents: USD387750 S1, USD384052 S1, USD384051 S1, USD384050 S1, US7302675 BB, US7219306 BB, US7216334 BB, US7210117 BB, US7200838 BB, US7185287 BB, US7177786 BB, US7134090 BB, US7134086 BB, US7062718 BB, US7010470 BB, US7000190 BB, US6993466 BB, US6983228 BB, US6971066 BB, US6961686 BB, US6954724 BB, US6934668 BB, US6934667 BB, US6784903 BB, US6772017 BA, US6772017 B1, US6763515 BA, US6715139 BA, US6684385 BA, US6608638 BA, US6584601 BA, US6219628 BA, US6173438 BA, US6173438 B1, US6154875 A, US6064409 A, US5990906 A, US5987246 A, US5821934 A, US5760788 A, US5737622 A, US5734863 A, US5732277 A, US5652909 A, US5610828 A, US5497500 A, US5481741 A, US5481740 A, US5475851 A, US5301336 A, US5301301 A, US5291587 A, US4914568 A, US4901221 A, US2007261024 AA, US2007225954 AA, US2007204234 AA, US2007203683 AA, US2007198923 AA, US2007198236 AA, US2007169053 AA, US2007150859 AA, US2007093994 AA, US2006053407 AA, US2006036799 AA, US2006005160 AA, US2006004553 AA, US2005257195 AA, US2005257194 AA, US2005055666 AA, US2005050515 AA, US2005032433 AA, US2004243654 AA, US2004235384 AA, US2004150667 AA, US2004010734 AA, US2004005859 AA, US2004004637 AA, US2003200076 AA, US2003196187 AA, US2003195732 AA, US2003195731 AA, US2003195730 AA, US2003195729 AA, US2003184596 AA, US2003184595 AA, US2003184580 AA, US2003172369 AA, US2003076355 AA, US2003046663 AA, US2003037322 AA, US2003037316 AA, US2003035010 AA, US2003035009 AA, US2003035006 AA, US2003035005 AA, US2003034998 AA, US2002145629 AA, US2002111783 AA, US2002083413 AA, US2002080174 AA, US2002055947 AA, US2002004712 AA, US2001025231 AA, US2001024211 AA, US2001020291 AA, SG111070 A1, JP9511594 T2, JP9511594, JP9212350 A2, JP9212350, JP8314702 A2, JP8314702, JP2007536640, JP2005339494 A2, JP2005339494, JP2005128658 A2, JP2005128658, JP2004157913 A2, JP2004157913, JP2004094432 A2, JP2004094432, JP2003256203 A2, JP2003256203, JP2002258914 A2, JP2001512598 T2, JP2001512598, JP2001291112 A2, JP2001291112, JP2001273345, JP2001051704 A2, JP2001051704, JP2001022412 A2, JP2001022412, JP2000010769 A2, JP2000010769, JP11149369 A2, GB2418031, GB2418030, GB2417575 A1, GB2417574 A1, GB2395801 A1, CN1619443 A, CN1549118 A, CN1501051 A, CN1409233 A,

Forward Citations: WO19144852, WO11072233, US9953069, US9870206, US9864966, US9823626, US9804588, US9778626, US9772623, US9740802, US9733902, US9697170, US9696969, US9575639, US9400733, US9354629, US9336184, US9304672, US9244452, US9214005, US9171272, US9137320, US9123002, US9111238, US9110957, US9104992, US9069557, US9024952, US8966437, US8782099, US8650057, US8606548, US8195719, US8185219, US2017131976, US2016306345, US2015242093, US2014337775, US2014173557, US2014173028, US2014129002, US2014040323, US2013151518, US2013104101, US2012304096, US2012159312, US2011307473, US2011224953, US2011131547, US2011131546, US2011022197, US2010332276, US2010191701, US2008177607, US10386827, US10386825, US10386824, US10379711, US10379527, US10324434, US10324423, US10311015, US10296668, US10282676, US10274926, US10248099, US10223327, US10168691, US10152031, US10133243, US10088835, US10037303, US10031490, US10031489, JP5704951, JP2012168645, GB2517581, EP3116178, EP3101489, EP2116911, CN106997285, CN106200584, CN106200584, CN105975280, CN105975280, CN105264474, CN105264474, CN105138337, CN105138337, CN104808603, CN104808603, CN104269934, CN104269934, CN103403722, CN103403722, CN103403721, CN103403721, CN102985883, CN102985883, CN102609269, CN102609269, CN102520687, CN102520687, CN102269989, CN102269989, AU2010327985,

Abstract:
A method and system of editing a graphical programming language object for designing a process control entity within an off-line database. The method and system enables a user to select one or more programming language object fragments from a library of programming language object fragments, and displays the selected programming language object fragments within a graphical programming language object phase display. The programming language object fragrance are programming logic routine story process control entity, such as steps, transitions and actions. Using the selected programming language object fragments, the user is enabled to configure a graphical programming language object for a process control entity within a graphical programming language object or phase display. The graphical programming language object is stored as a configuration file in a format used by the off-line database, and is mapped to a format different from that used by the off-line database for generating reporting documentation and sharing the configuration file with a configuration database.