

Search history

Search PN=(WO2016037105) (Results 1)

1:

Search [SP]: updating execution of tasks of an agricultural prescription a method begins by a computing device allocating a plurality of tasks of an agricultural prescription for a farming geographic area to a fleet of farming equipment. while executing tasks of the plurality of tasks, the method continues with at least some of the fleet of farming equipment collecting task execution data. based on the task execution data, the method continues with the computing device updating at least one of the agricultural prescription, the plurality of tasks, and the allocation of at least one task of the plurality of tasks. (Results 58)

2:

Search [SP]: 1. a method for customizing an agricultural prescription based on data records and weather data for a geographic region, the method comprising: determining one or more time periods within an agricultural lifecycle set forth in an agricultural prescription for a geographic region obtaining data records for the geographic region wherein the data records are associated with the one or more time periods, and include one or more of: time stamped temperature levels, time stamped soil moisture levels, time stamped soil nutrient levels, or time stamped location information obtaining weather data for the geographic region based on the data records and the weather data, determining one or more growth factors for the one or more time periods applying a deterministic function to the one or more growth factors to predict an accumulated growth metric for the geographic region based on the accumulated growth metric for the geographic region, estimating a harvest-ready time for a probable harvest in the geographic region and based on the harvest-ready time and the agricultural prescription, generating an updated agricultural prescription that prescribes steps for attaining the probable harvest at the harvest-ready time. 2. the method of claim 1, wherein determining the one or more growth factors for the one or more time periods comprises determining, based on the data records for the geographic region, one or more of: soil moisture levels, soil nutrient levels, temperature levels, or sunlight intensity levels. 3. the method of claim 1, wherein the deterministic function that is applied to the one or more growth factors to predict the accumulated growth metric for the geographic region is selected based on location information associated with the geographical region, a time of year, and an expected accuracy level and wherein applying the deterministic function to the one or more growth factors to predict the accumulated growth metric for the geographic region comprises adjusting the one or more growth factors for the one or more time periods and applying the deterministic function to one or more adjusted growth factors until the expected accuracy level is achieved. 4. the method of claim 1, wherein the agricultural prescription comprises one or more of: a planting plan a tillage plan a crop transportation plan a speed plan a fertilizing plan a watering plan a weeding plan or a harvesting plan. 5. the method of claim 1, wherein the agricultural prescription comprises task execution data which comprises at least one of: adherence information regarding performance of an allocated task of a plurality of tasks farm equipment sensor data farm equipment location information or farm equipment operational data. 6. the method of claim 5, further comprising: interpreting the task execution data in accordance with expected performance of the agricultural prescription to produce an actual performance level determining whether the actual performance level meets the expected performance and in response to determining that the actual performance level does not meet the expected performance, determining whether to update the agricultural prescription, the plurality of tasks, or an allocation of at least one task of the plurality of tasks. 7. the method of claim 5, further comprising: interpreting the task execution data in accordance with expected performance of the agricultural prescription to determine whether one or more of: combine waste, planting errors, or application data meets the expected performance and in response to determining that the one or more of: the combine waste, the planting errors, and the application data does not meet the expected performance, determining whether to update the agricultural prescription, the plurality of tasks, or an allocation of at least one task of the plurality of tasks. 8. the method of claim 5, further comprising: updating the plurality of tasks by one or more of: adding a new task to the plurality of tasks deleting an existing task of the plurality of tasks or modifying a task of the plurality of tasks. 9. the method of claim 5, further comprising: updating the agricultural prescription by one or more of: changing execution scheduling of one or more tasks of the plurality of tasks adding, deleting, or modifying one or more planting steps adding, deleting, or modifying one or more speed steps adding, deleting, or modifying one or more weeding steps adding, deleting, or modifying one or more watering steps adding, deleting, or modifying one or more harvesting steps. 10. the method of claim 5, further comprising: updating an allocation of at least one task of the plurality of tasks by one or more of: reallocating an unexecuted task of the plurality of tasks from one piece of farming equipment to another piece of farming equipment of a fleet of farming equipment reallocating a partially completed task of the plurality of tasks from the one piece of farming equipment to other piece of farming equipment of the fleet of farming equipment or allocating a new task to one of the fleet of farming equipment. 11. one or more non-transitory computer-readable storage media storing one or more computer instructions which, when executed by one or more processors, cause the one or more processors to perform: determining one or more time periods within an agricultural lifecycle set forth in an agricultural prescription for a geographic region obtaining data records for the geographic region wherein the data records are associated with the one or more time periods, and include one or more of: time stamped temperature levels, time stamped soil moisture levels, time stamped soil nutrient levels, or time stamped location information obtaining weather data for the geographic region based on the data records and the weather data, determining one or more growth factors for the one or more time periods applying a deterministic function to the one or more growth factors to predict an accumulated growth metric for the geographic region based on the accumulated growth metric for the geographic region, estimating a harvest-ready time for a probable harvest in the geographic region and based on the harvest-ready time and the agricultural prescription, generating an updated agricultural prescription that prescribes steps for attaining the probable harvest at the harvest-ready time. 12. the one or more non-transitory computer-readable storage media of claim 11, storing additional instructions which, when executed by the one or more processors, cause the one or more processors to perform: determining, based on the data records for the geographic region, one or more of: soil moisture levels, soil nutrient levels, temperature levels, or sunlight intensity levels. 13. the one or more non-transitory computer-readable storage media of claim 11, wherein the deterministic function that is applied to the one or more growth factors to predict the accumulated growth metric for the geographic region is selected based on location information associated with the geographical region, a time of year, and an expected accuracy level and wherein applying the deterministic function to the one or more growth factors to predict the accumulated growth metric for the geographic region comprises adjusting the one or more growth factors for the one or more time periods and applying the deterministic function to one or more adjusted growth factors until the expected accuracy level is achieved. 14. the one or more non-transitory computer-readable storage media of claim 11, wherein the agricultural prescription comprises one or more of: a planting plan a tillage plan a crop transportation plan a speed plan a fertilizing plan a watering plan a weeding plan or a harvesting plan. 15. the one or more non-transitory computer-readable storage media of claim 11, wherein the agricultural prescription comprises task execution data which comprises at least one of: adherence information regarding performance of an allocated task of a plurality of tasks farm equipment sensor data farm equipment location information or farm equipment operational data. 16. the one or more non-transitory computer-readable storage media of claim 15, storing additional instructions which, when executed by the one or more processors, cause the one or more processors to perform: interpreting the task execution data in accordance with expected performance of the agricultural prescription to produce an actual performance level determining whether the actual performance level meets the expected performance and in response to determining that the actual performance level does not meet the expected performance, determining whether to update the agricultural prescription, the plurality of tasks, or an allocation of at least one task of the plurality of tasks. 17. the one or more non-transitory computer-readable storage media of claim 15, storing additional instructions which, when executed by the one or more processors, cause the one or more processors to perform: interpreting the task execution data in accordance with expected performance of the agricultural prescription to determine whether one or more of: combine waste, planting errors, or application data meets (Results 0)

Search fn=(64760830 or 69562439 or 57476711 or 67434908 or 57476711 or 62401709 or 63190651 or 65316864 or 65471854 or 59937297 or 63835162 or 67368635 or 67434908 or 57476711 or 63835162 or 57476711 or 62401709 or 61841576 or 64428400 or 28282995 or 28995951 or 24017608 or 33369705 or 33995116 or 34504906 or 44114420 or 34556784 or 44342307 or 44898672 or 48238112 or 49890135 or 51434129 or 52533522 or 54263101 or 54263430 or 51896331 or 55662241 or 55037298 or 52857672 or 56771207 or 44342307 or 57492637 or 57794700 or 55709033 or 58803608 or 60700230 or 56830808 or 54263101 or 61841576 or 57476711 or 62526538 or 63040202 or 63116653 or 29456235 or 12441348 or 24082214 or 13346792 or 32616442 or 32616442 or 41578425 or 33995116 or 32765346 or 47337650 or 32087430 or 51879285 or 42004175 or 58966769 or 58966790 or 58966790 or 44342307 or 59285657 or 44114420 or 55763282) (Results 58)

Search [SP]: cross reference to related patents[0001] this application claims the benefit under 35 u.s.c. 120 as a continuation of application ser. no. 14/810,809, filed jul. 28, 2015, which claims the benefit under 35 u.s.c. 119(e) of provisional 62/046,346, entitled "utilizing sensor data to generate an agricultural prescription", filed sep. 5, 2014 and u.s. provisional application no. 62/052,034, entitled "determining crop harvesting yield", filed sep. 18, 2014, both of which are hereby incorporated herein by reference in their entirety and made part of the present u.s. utility patent application for all purposes.technical field of the invention[0002] this invention relates generally to computing systems utilized in agriculture and more particularly to utilization of computing systems to prescribe aspects of an agriculture life cycle to provide improved results of the agriculture life cycle.description of related art[0003] agriculture is known to include cultivation of plants to sustain and enhance human life. the cultivation of plants includes executing numerous steps of the agriculture lifecycle, such as, land

management, irrigation, fertilization, planting, and harvesting. effectiveness of the agriculture lifecycle may depend upon process control of the execution of the numerous steps and further depend upon numerous conditions, such as, available sunlight, water availability, temperature ranges, wind speeds, soil type, soil nutrients, and other factors.[0004] computing devices are known to gather data, store the data, process the data, and communicate the data. examples of a computing device includes embedded farming equipment electronics, a smart phone, a tablet computer, a laptop computer, a personal computer, a storage server, and/or a data processing server. basically, any device that includes a computing unit, one or more interfaces, and a memory system may be deemed a computing device.[0005] as is further known, computing devices may be utilized to gather data associated with the agriculture lifecycle and to process the gathered data. such processed data may be utilized to understand cause and effect relationships associated with the effectiveness of the agriculture lifecycle.brief description of the several views of the drawing(s)[0006] fig. 1 is a schematic block diagram of an embodiment of a computing system in accordance with the present invention[0007] fig. 2 is a diagram illustrating an embodiment of a plurality of geographic regions in accordance with the present invention[0008] fig. 3 is a diagram illustrating an embodiment of a plurality of sub-geographic regions in accordance with the present invention[0009] fig. 4 is a schematic block diagram of an embodiment of a user device in accordance with the present invention[0010] fig. 5 is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0011] fig. 6 is a diagram illustrating an embodiment of a drive path for an associated geographic region in accordance with the present invention[0012] fig. 7 is a diagram illustrating a relationship between a user device and tracks along a drive path in accordance with the present invention[0013] fig. 8 is a diagram illustrating an example of a structure of a data record in accordance with the present invention[0014] fig. 9 is a schematic block diagram of an embodiment of an application unit and an associated storage unit in accordance with the present invention[0015] fig. 10 is a diagram illustrating another embodiment of a drive path for an associated geographic region in accordance with the present invention[0016] fig. 11 is a diagram illustrating a relationship between a user device, an actuator set, and tracks along a drive path in accordance with the present invention[0017] fig. 12a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0018] fig. 12b is a schematic block diagram of an embodiment of a drive unit in accordance with the present invention[0019] fig. 12c is a flowchart illustrating an example of collecting data to generate an agricultural prescription in accordance with the present invention[0020] fig. 12d is a flowchart illustrating another example of collecting data to generate an agricultural prescription in accordance with the present invention[0021] fig. 13a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0022] figs. 13b-c are diagrams of agricultural prescription resource mapping in accordance with the present invention[0023] fig. 13d is a flowchart illustrating an example of updating resource assignments in accordance with the present invention[0024] figs. 13e-f are flowcharts illustrating an example of updating execution of tasks of an agricultural prescription in accordance with the present invention[0025] fig. 14a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0026] fig. 14b is a flowchart illustrating an example of identifying an unfavorable crop harvesting output level in accordance with the present invention[0027] fig. 15a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0028] fig. 15b is a flowchart illustrating an example of identifying an unfavorable crop planting level in accordance with the present invention[0029] fig. 16a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0030] fig. 16b is a flowchart illustrating an example of identifying an unfavorable applicant application level in accordance with the present invention[0031] fig. 17a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0032] fig. 17b is a flowchart illustrating an example of generating a tillage agricultural prescription in accordance with the present invention[0033] fig. 18a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0034] fig. 18b is a flowchart illustrating an example of generating a scouting agricultural prescription in accordance with the present invention[0035] fig. 19a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0036] fig. 19b is a flowchart illustrating an example of generating an updated agricultural prescription based on forecasted weather conditions in accordance with the present invention[0037] fig. 20a is a schematic block diagram of another embodiment of a user device in accordance with the present invention[0038] fig. 20b is a schematic block diagram of an embodiment of an application processing module in accordance with the present invention[0039] fig. 20c is a flowchart illustrating an example of opportunistic acquisition of location information enabling data collection to generate an agricultural prescription in accordance with the present invention[0040] fig. 21a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0041] fig. 21b is a flowchart illustrating an example of generating a nitrogen application agricultural prescription in accordance with the present invention[0042] fig. 22a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0043] fig. 22b is a flowchart illustrating an example of generating a harvest agricultural prescription in accordance with the present invention[0044] fig. 23a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0045] fig. 23b is a flowchart illustrating an example of determining crop harvesting yield in accordance with the present invention[0046] fig. 24a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0047] fig. 24b is a flowchart illustrating an example of optimizing crop harvesting yield in accordance with the present invention[0048] fig. 25a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0049] fig. 25b is a diagram illustrating an example of correcting sensor data in accordance with the present invention[0050] fig. 25c is a flowchart illustrating an example of improving accuracy of crop harvesting sensor data in accordance with the present invention[0051] fig. 26a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0052] fig. 26b is a flowchart illustrating an example of improving accuracy of crop yield data in accordance with the present invention[0053] fig. 27a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention[0054] fig. 27b is a flowchart illustrating another example of improving accuracy of crop yield data in accordance with the present invention[0055] fig. 28a is a schematic block diagram of another embodiment of a computing system in accordance with the present invention and[0056] fig. 28b is a flowchart illustrating an example of chain of custody crop tracking in accordance with the present invention.detailed description of the invention[0057] fig. 1 is a schematic block d (Results 58)

Search 2 or 4 or 5 (Results 58)
6:

Title: COLLECTING DATA TO GENERATE AN AGRICULTURAL PRESCRIPTION

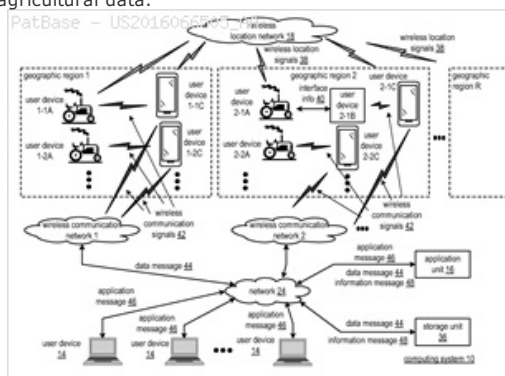
Abstract: A method begins by a drive unit affiliated with farm equipment receiving data from the farm equipment to produce agricultural data. The method continues with the drive unit determining a filtering constraint based on one or more parameters selected from a plurality of lists of agricultural parameters and filtering the agricultural data based on the filtering constraint to produce filtered agricultural data. The method continues with the drive unit determining processing of the filtered agricultural data and executing the processing of the filtered agricultural data.

Classifications:

International (IPC 8-9): A01D41/127 G05B15/02 G06F17/30
G06Q10/04 G06Q10/06 G06Q50/02 G08G1/00
H04W4/00 (Advanced/Invention)

CPC: A01D41/1274 G06F17/30867 G05B15/02 G06Q50/02
G06Q10/063 G06Q10/04 G08G1/00 H04W4/70

US: 700/275 701/50 705/7.11



Family:

Publication number	Publication date	Application number	Application date
AU2015311729 AA	20160310	AU20150311729	20150904
BR112017004330 A2	20180807	BR20171104330	20150904
CA2959764 AA	20170302	CA20152959764	20150904
CL2017000520 A1	20171103	CL20170000520	20170303
CN107111795 A	20170829	CN201580053930	20150904
CO20170002798 A2	20170630	CO20170002798	20170324
EP3189480 A1	20170712	EP20150838946	20150904
EP3189480 A4	20171108	EP20150838946	20150904
US2016066505 AA	20160310	US20150739823	20150615
US2016071223 AA	20160310	US20150842016	20150901
US2016071410 AA	20160310	US20150810809	20150728
US2018144413 AA	20180524	US20180875993	20180119
US9904963 BB	20180227	US20150810809	20150728
WO16037105 A1	20160310	WO2015US48639	20150904

Priority:

US20140046346P 20140905	US20140052034P 20140918	US20150739823 20150615
US20150810809 20150728	US20150842016 20150901	WO2015US48639 20150904
US20180875993 20180119		

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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 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

Title: SYSTEMS AND METHODS FOR DETECTING SOIL CHARACTERISTICS

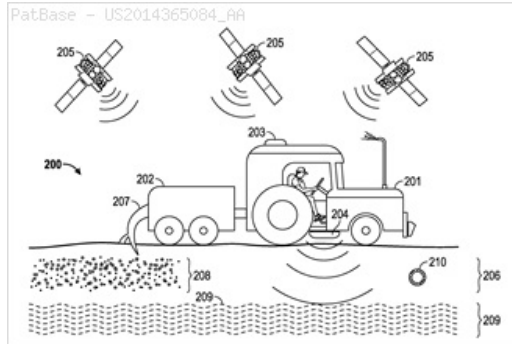
Abstract: A soil detection and planting apparatus. The apparatus includes a vehicle and a controller coupled to the vehicle. The apparatus further includes a planting device coupled to the vehicle, the planting device configured to plant seeds or plants into a soil material. The apparatus includes a ground penetrating radar sensor coupled to the vehicle. The ground penetrating radar soil sensor is configured to scan the soil material up to a designated depth beneath a surface of the soil material, wherein the ground penetrating radar soil sensor is further configured to provide a sensor feedback signal to the controller with respect to an intrinsic characteristic of the soil material. The controller is configured to instruct placement of a seed or a plant into the soil material based on the feedback signal.

Classifications:

International (IPC 8-9): A01B69/00 A01B79/00 A01C11/00
A01C21/00 A01C23/04 A01C7/00 A01C7/08 A01C7/10 A01G25/16
B64D1/18 B64D43/00 G01C21/32 G01N22/00 G01N33/24
G01S13/88 G01S13/89 G01S15/89 G06F19/00 (Advanced/Invention);
G01S13/89 G01S7/41 (Advanced/Non-invention)

CPC: G01S13/885 A01B69/00 A01B79/005 A01C23/04 G01S13/888
A01G25/167 G01S13/89 A01C21/005 G01S7/412 G01S13/887
G01S15/89 A01C7/085 A01C7/102 B64D1/18 B64D43/00

US: 1/1 111/149 239/63 342/22 701/50



Family:

Publication number	Publication date	Application number	Application date
CA2912644 AA	20151116	CA20142912644	20140516
CN105246319 A	20160113	CN201480029258	20140516
EP2999324 A1	20160330	EP20140801012	20140516
EP2999324 A4	20170118	EP20140801012	20140516
US2014365084 AA	20141211	US20140468547	20140826
US2016109569 AA	20160421	US20150983105	20151229
US2017176589 AA	20170622	US20170450476	20170306
US2017336507 AA	20171123	US20170661192	20170727
US8849523 BA	20140930	US20130898298	20130520
US9265192 BB	20160223	US20140468547	20140826
US9618614 BB	20170411	US20150983105	20151229
US9733355 BB	20170815	US20170450476	20170306
US1006994 BB	20180626	US20170661192	20170727
WO14189791 A1	20141127	WO2014US38463	20140516

Priority:

US20130898298 20130520 WO2014US38463 20140516 US20140468547 20140826
US20150983105 20151229 US20170450476 20170306 US20170661192 20170727

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Inventor(s): WOOD LOWELL L ; WOOD JR

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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

Title: AGRICULTURAL MACHINE AND OPERATOR PERFORMANCE INFORMATION SYSTEMS AND RELATED METHODS

Abstract: In one example, a system can comprise a first data gathering mechanism set and a data processing mechanism set. The a first data gathering mechanism set can be configured to gather a first operational data set during operation of a first agricultural machine set, and to transmit the first operational data set to a network. The first operational data set can comprise information representative of one or more characteristics of an agricultural crop during production. The a data processing mechanism can be configured to store a combined data set comprising the first operational data set, and generate one or more reports based on the combined data set. Other embodiments and related methods are also disclosed herein.

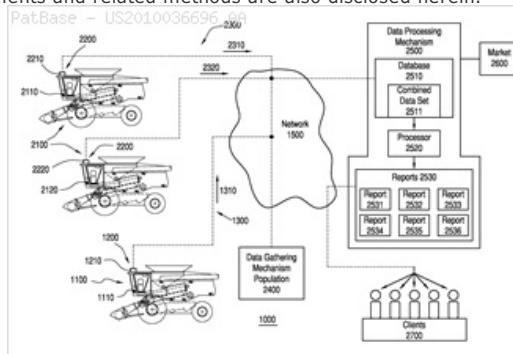
Classifications:

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CPC: G06F17/3087 G06Q10/06393 A01B79/005 A01D41/127 G06Q10/0637 G06Q10/06375 G09B29/007

European: A01B79/00P G06Q10/00 G06Q10/06393

US: 1/1 701/213 701/213S 701/469 701/469S 701/50 701/50S 702/182 702/182S 705/7 705/7.39 705/7.390P 705/7P 707/100 707/104.1 707/E17.044 707/E17.044S 709/217 709/217S

**Family:**

Publication number	Publication date	Application number	Application date
AU2010282934 AA	20110217	AU20100282934	20100623
AU2010282934 BB	20131107	AU20100282934	20100623
BRPI1014190 A2	20160426	BR2010PI14190	20100623
CA2752888 AA	20110217	CA20102752888	20100623
EP2465064 A1	20120620	EP20100808492	20100623
EP2465064 A4	20140924	EP20100808492	20100623
US2010036696 AA	20100211	US20090539376	20090811
US2014249893 AA	20140904	US20140279091	20140515
US9152938 BB	20151006	US20090539376	20090811
WO11019453 A1	20110217	WO2010US39711	20100623

Priority:

US20080188562P 20080811 US20090539376 20090811 WO2010US39711 20100623
 US20140941174P 20140218 US20140279091 20140515

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Inventor(s): WILLIAM C MAYES

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; LAWRENCE JOHN; BRYAN CAVE LLP; RIVERA PEDRO J

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 RO RS RU 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 AND SYSTEM OF EVALUATING PERFORMANCE OF A CROP

Abstract: A method and system of evaluating crop performance facilitates characterization of the environmental impact of a geographic region or areas within the region for growing plant-life. Environmental measurements are obtained. The environmental measurements are associated with a geographic region. Each environmental measurement includes at least one of soil data and weather data. Respective location data is obtained. The location data is associated with corresponding environmental measurements. An estimated performance characteristic is determined for a particular crop planted in the geographic region based on the obtained environmental measurements and respective location data. Contours are established for one or more uniform performance areas with generally uniform performance characteristic within the geographic region by applying a decision-tree analysis to the obtained environmental measurements.

Classifications:

International (IPC 8-9): G06F169/00 G06F17/60 G06F19/00

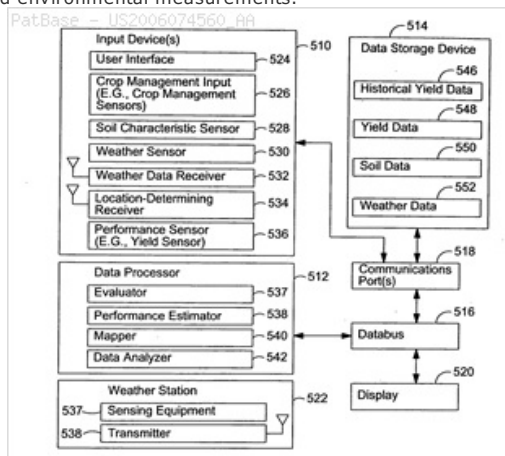
G06Q50/00 (Advanced/Invention);

G06F19/00 (Core/Invention)

CPC: G06Q10/00 G06Q50/02 A01B79/005 G06Q10/04

European: A01B79/00P G06Q10/00 G06Q10/04 G06Q50/02

US: 702/2 702/5 702/5P 705/10



Family:

Publication number	Publication date	Application number	Application date
US2006074560 AA	20060406	US20050258582	20051025
US6999877 BA	20060214	US20030744418	20031223
US7047133 BA	20060516	US20030744307	20031223
US7047135 BB	20060516	US20050258582	20051025
US7184892 BA	20070227	US20030744419	20031223

Priority:

US20030444592P 20030131 US20030744307 20031223 US20030744418 20031223
 US20030744419 20031223 US20050258582 20051025

Probable Assignee: DEERE AND CO

Assignee(s): (std): DYER JAMES S ; HALTERMAN JERRY R ; HUNNER GERHARD J ; MUEHLBACH GEORGE B ; DEERE AND CO

Assignee(s): DEERE AND COMPANY

Inventor(s): (std): DYER JAMES S ; HALTERMAN JERRY R ; MUEHLBACH GEORGE B ; MUEHLBACH GEORGE BAILEY ; HUNNER GERHARD JOSEF ; HALTERMAN JERRY RAY ; DYER JAMES SCOTT ; HUNNER GERHARD J

Inventor(s): MUEHLBACH GEORGE ; DYER JAMES ; HUNNER GERHARD ; HALTERMAN JERRY

Agent(s): DEERE AND COMPANY; DEERE AND CO

Abstract: Methods and software for selecting seed products or other agricultural inputs for planting within an associated land base include dividing the field into regions, providing an environmental profile for each of regions, determining a recommendation of a seed product to plant within each of the regions based on the environmental profile and performance of the genotype of each of the seed products in the environmental profile of the regions, and providing an output identifying the seed product to plant within each of the regions.

International (IPC 8-9): A01B79/00 A01C21/00 G01N37/00
G01W1/00 G01W1/14 G05B19/418 G06F19/00 G06F19/18 G06F7/00
G06F9/44 G06Q30/00 G06Q40/00 G06Q40/02 G06Q50/00
G06Q50/02 G06Q99/00 (Advanced/Invention);
G06F7/00 G06Q30/00 (Core/Invention)

European: A01B79/00P A01C1/00 A01C21/00 A01H1/04
G06Q10/04 G06Q10/08 G06Q20/10 G06Q30/00 G06Q30/0256
G06Q30/0282 G06Q30/0601 G06Q30/0631 G06Q40/00 G06Q40/06
G06Q40/08 G06Q50/02 G06Q50/28

707/999.107 707/999.107S



Publication number	Publication date	Application number	Application date
BRPI0611682 A2	20100928	BR2006PI11682	20060612
CA2611497 AA	20071207	CA20062611497	20060612
CA2611497 C	20160503	CA20062611497	20060612
EP1899806 A2	20080319	EP20060784806	20060612
EP1899806 A4	20140813	EP20060784806	20060612
MX2007015627 A1	20080221	MX20070015627	20060612
US2006282228 AA	20061214	US20060423631	20060612
US2006282296 AA	20061214	US20060423652	20060612
US2006282299 AA	20061214	US20060423642	20060612
US2006282467 AA	20061214	US20060451054	20060612
US2006293913 AA	20061228	US20060423658	20060612
US2007005451 AA	20070104	US20060423523	20060612
US2009089171 AA	20090402	US20080330700	20081209
US2009089224 AA	20090402	US20080330695	20081209
US2009112637 AA	20090430	US20080330710	20081209
US2013018586 AA	20130117	US20120618692	20120914
US2013198057 AA	20130801	US20130804770	20130314
US8032389 BB	20111004	US20060423642	20060612
US8046280 BB	20111025	US20060423652	20060612
US8249926 BB	20120821	US20080330700	20081209
US8290795 BB	20121016	US20080330710	20081209
US8417602 BB	20130409	US20080330695	20081209
WO06135880 A2	20061221	WO2006US22917	20060612
WO06135880 A3	20071004	WO2006US22917	20060612

US20050689716P	20050610	US20050722365P	20050930	US20060760130P	20060119
US20060423652	20060612	US20060423523	20060612	US20060423642	20060612
US20060423631	20060612	US20060423658	20060612	US20060451054	20060612
WO2006US22917	20060612	US20080330700	20081209	US20080330695	20081209
US20080330710	20081209	US20120618692	20120914	US20130804770	20130314

Assignee(s): (std): AVEY DONALD P ; BAX PHILLIP L ; BAX PHILLIP LEE ; BROOKE GLENN ; BROOKE RICHARD GLENN ; DU PONT ; GOGERTY JOSEPH K ; IWIG ROBERT C ; ERTL DAVID S ; LAUER MICHAEL J ; HARWOOD DAVID ; HARWOOD DAVID J ; HOBBS TROY WM ; GARDNER DOUGLAS L ; PIONEER HI BRED INT INC ; PIONEER HI BRED INT ; MEYER TERRY EUCLAIRE ; PETERSON TODD A ; MEYER TERRY EU CLAIRE

Inventor(s): (std): BAX PHILLIP L ; BAX PHILLIP LEE ; BROOKE GLENN ; BROOKE RICHARD G ; BROOKE RICHARD GLENN ; AVEY DONALD P ; ERTL DAVID S ; FORESMAN JOSEPH P ; GARDNER DOUGLAS L ; GOODMAN ANDREW G ; HARWOOD DAVID ; HARWOOD DAVID J ; GOGERTY JOSEPH K ; HOBBS TROY W ; HOBBS TROY WM ; HOOVER SUE M ; IWIG ROBERT C ; MEYER TERRY E ; MEYER TERRY EU CLAIRE ; MEYER TERRY ECLAIRE ; PETERSON TODD A ; SANDERS RUSSELL F ; LAUER MICHAEL J ; WANAMAKER J K

Inventor(s): WANAMAKER J KENT ; MEYER TERRY ; AVEY DONALD ; TERRY EUCLAIRE MEYER ; TODD A PETERSON ; WANAMAKER J ; PHILLIP L BAX ; ROBERT C IWIG ; SANDERS RUSSELL ; MICHAEL J LAUER ; PETERSON TODD ; JOSEPH K GOGERTY ; LAUER MICHAEL ; IWIG ROBERT ; HOOVER SUE ; GOODMAN ANDREW ; HOBBS TROY ; GLENN BROOKE ; GOGERTY JOSEPH ; GARDNER DOUGLAS ; FORESMAN JOSEPH ; BAX PHILLIP ; DAVID HARWOOD ; DAVID S ERTL ; DONALD P AVEY ; ERTL DAVID ; BROOKE RICHARD

Agent(s): TORYS LLP; BENTHAM ANDREW ET AL; MCKEE VOORHEES AND SEASE PLC ATTN PIONEER HI BRED; WOODCOCK WASHBURN LLP

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

Title: COMPACT PAINT BOOTH AND METHOD

Abstract: Paint booths for applying paint to an object, as well as methods for degrading coating operations associated with a paint booth, are disclosed. Paint booth may generally include one or more robot rails positioned parallel to the path of the conveyor, and one or more robots positioned on at least one of the rails. Robots may be configured to simultaneously apply a first paint layer to the interior and exterior surfaces of the object. Paint booths may further include one or more additional robots positioned on at least one of the rails and configured to simultaneously apply a second paint layer to the interior and exterior surfaces of the object.

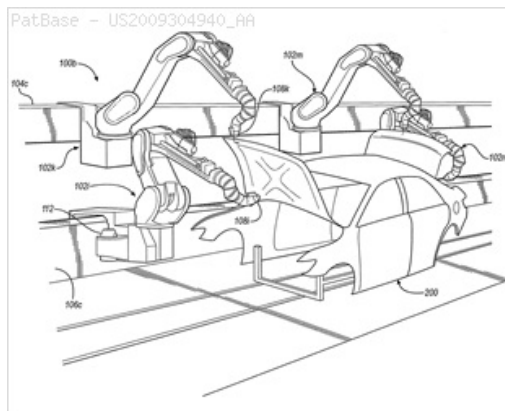
Classifications:

International (IPC 8-9): B05B1/00 B05B12/00 B05B12/04
B05B12/14 B05B13/04 B05B15/00 B05B15/12 B05B15/70 B05B7/06
B05C11/00 B05D1/02 B05D3/00 B25J13/00 B25J5/02
B25J9/00 (Advanced/Invention);
B05B12/14 B05B15/02 B05B15/50 B05C11/10 B05C13/02 B05D1/34
B05D5/10 (Advanced/Non-invention);
B05B1/00 B05B12/00 B05B13/02 B05B15/12 B05D1/02
B25J5/02 (Core/Invention)

CPC: B05C11/1015 B05C13/02 B05B12/14 B05B13/0431
B05B13/0452 B25J5/02 B25J9/0084 B25J9/0093 B05B15/55
B05B16/20

European: B05B13/04D B05B13/04M2 B25J5/02 B25J9/00P
B25J9/00T L05B12/14 L05B15/02B

US: 1/1 118/314 118/314S 427/427.2 427/427.200P



Family:

Publication number	Publication date	Application number	Application date
BRPI0912233 A2	20151006	BR2009PI12233	20090605
CA2725904 AA	20101125	CA20092725904	20090605
CA2725904 C	20180703	CA20092725904	20090605
CN102046300 A	20110504	CN200980120592	20090605
CN102046300 B	20141119	CN200980120592	20090605
EP2282843 A1	20110216	EP20090757319	20090605
EP2282843 B1	20180808	EP20090757319	20090605
IN00006CN2011 A	20111014	IN2011CN00006	20110103
JP2011525418 T2	20110922	JP20110512031T	20090605
MX2010012912 A1	20101221	MX20100012912	20090605
RU2010154291 A	20120720	RU20100154291	20090605
RU2486014 C2	20130627	RU20100154291	20090605
US2009304940 AA	20091210	US20090478510	20090604
US9375746 BB	20160628	US20090478510	20090604
WO09146936 A1	20091210	WO2009EP04062	20090605

Priority:

US20080059170 20080605	US20080059170P 20080605	US20080059555P 20080606
US20080059555 20080606	US20090478510 20090604	WO2009EP04062 20090605

Probable Assignee: DURR SYSTEMS GMBH

Assignee(s): (std): BUCKNELL THOMAS A ; DJURR SISTEMZ GMBKH ; DUERR SYSTEMS AG ; DUERR SYSTEMS GMBH ; GRIGOLEIT JAN ; HELDT ROBERT F ; SOUGIOLTZIS VASSILIOS ; HELDT ROBERT

Assignee(s): DURR SYSTEMS AG ; DURR SYSTEMS GMBH

Inventor(s): (std): BUCKNELL THOMAS A ; GRIGOLAJT JAN ; GRIGOLEIT JAN ; HELDT ROBERT ; HELDT ROBERT F ; JAN GRIGOLEIT ; KHELDT ROBERT F ; SOGIOLTZIS VASSILIOS ; SOUGIOLTZIS VASSILIOS ; BAKNELL TOMAS A ; VASSILIOS SOUGIOLTZIS

Inventor(s): BUCKNELL THOMAS ; THOMAS A BUCKNELL ; VASSILIOS SOGIOLTZIS ; ROBERT F HELDT

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BEIER RALPH; RADER FISHMAN AND GRAUER PLLC; BEJIN BIENEMAN PLC

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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHODS, APPARATUS AND SYSTEMS FOR GENERATING, UPDATING AND EXECUTING A CROP-HARVESTING PLAN

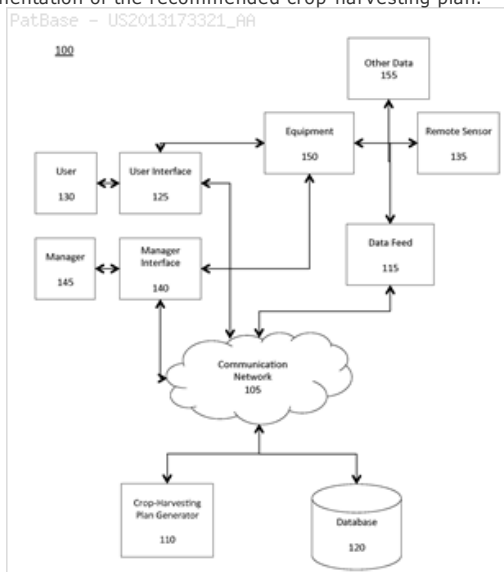
Abstract: Crop-harvesting plans automatically generated based on crop-harvesting information received from a variety of sources, such as a user, remote sensor, database, data feed and/or a social network. The crop-harvesting plans may dynamically aid farmers and other production agriculture professionals when determining a crop-harvesting plan and then implementing that crop-harvesting plan. Crop-harvesting plans may include a variety of recommended crop-harvesting practices, logistics, sequences and projected outcomes for the implementation of the recommended crop-harvesting plan.

Classifications:

International (IPC 8-9): G06Q10/06 (Advanced/Invention)

CPC: G06Q10/04 G06Q50/02 A01B79/005 A01D91/00 G06Q10/063 G06Q10/06

US: 705/7.11 705/7.12



Family:

Publication number	Publication date	Application number	Application date
US2013173321 AA	20130704	US20110341625	20111230
US2016026940 AA	20160128	US20150872598	20151001

Priority:

US20110341625 20111230 US20150872598 20151001

Probable Assignee: SUPERIOR EDGE INC

Assignee(s): (std): AGLYTIX INC ; JOHNSON JEROME DALE

Assignee(s): SUPERIOR EDGE INC

Inventor(s): (std): JOHNSON JEROME DALE

Title: ASSESSMENT OF MOISTURE CONTENT OF STORED CROP, AND MODELING USAGE OF IN-BIN DRYING TO CONTROL MOISTURE LEVEL BASED ON ANTICIPATED ATMOSPHERIC CONDITIONS AND FORECAST TIME PERIODS OF ENERGY USAGE TO ACHIEVE DESIRED RATE OF GRAIN MOISTURE CHANGE THROUGH FORCED-AIR VENTILATION

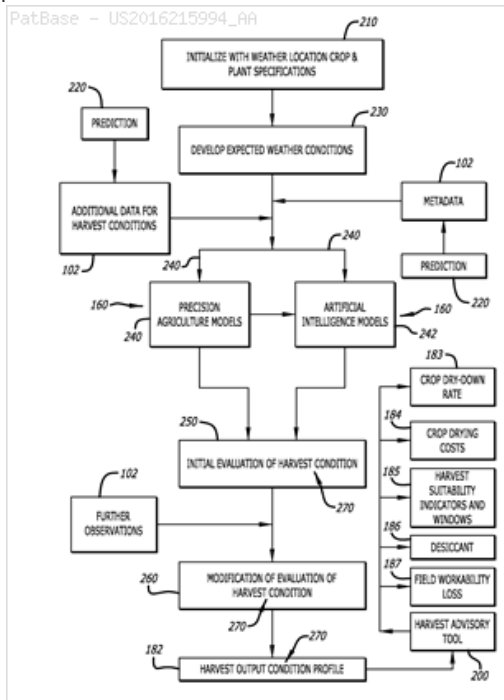
Abstract: A modeling framework for evaluating the impact of weather conditions on farming and harvest operations applies real-time, field-level weather data and forecasts of meteorological and climatological conditions together with user-provided and/or observed feedback of a present state of a harvest-related condition to agronomic models and to generate a plurality of harvest advisory outputs for precision agriculture. A harvest advisory model simulates and predicts the impacts of this weather information and user-provided and/or observed feedback in one or more physical, empirical, or artificial intelligence models of precision agriculture to analyze crops, plants, soils, and resulting agricultural commodities, and provides harvest advisory outputs to a diagnostic support tool for users to enhance farming and harvest decision-making, whether by providing pre-, post-, or in situ-harvest operations and crop analyses.

Classifications:

International (IPC 8-9): A01B79/00 A01D91/00 A01F12/58
A01G1/00 A01G25/16 A01G7/00 F24F11/00 G01W1/10 G05B13/04
G06F15/18 G06F17/00 G06F17/50 G06F19/00 G06N5/02 G06N5/04
G06N99/00 G06Q10/06 G06Q50/02 (Advanced/Invention);
A01D91/00 A01F25/22 A01G9/00 (Advanced/Non-invention)

CPC: G06Q10/067 G06Q10/0631 Y02A40/12 A01G9/00 G06N5/04
G06N99/005 G05B13/048 A01F25/22 A01B79/005 A01G25/167
G06F15/18 G06Q10/06 G06Q50/02 G06F17/5009 G01W1/10
A01F12/58 A01D91/00 G06N99/00 Y02A90/14 A01G22/00

US: 1/1 700/276 706/12 706/46



Family:

Publication number	Publication date	Application number	Application date
US2016215994 AA	20160728	US20150842853	20150902
US2017061050 AA	20170302	US20160345856	20161108
US2017061299 AA	20170302	US20160345843	20161108
US9009087 BA	20150414	US20150603381	20150123
US9076118 BA	20150707	US20150603378	20150123
US9140824 BA	20150922	US20150603380	20150123
US9292796 BA	20160322	US20150738836	20150613
US9311605 BA	20160412	US20150842852	20150902
US9336492 BA	20160510	US20150842854	20150902
US9518753 BB	20161213	US20150842853	20150902
WO16118684 A1	20160728	WO2016US14210	20160121
WO16118685 A1	20160728	WO2016US14211	20160121
WO16118686 A1	20160728	WO2016US14212	20160121

Priority:

US20150603378 20150123	US20150603380 20150123	US20150603381 20150123
US20150603382 20150123	US20150603383 20150123	US20150603384 20150123
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US20150952670 20151125	US20150952679 20151125	US20150952698 20151125
US20160345856 20161108	US20160345843 20161108	

Probable Assignee: CLEARAG INC

Assignee(s): (std): ITERIS INC

Assignee(s): CLEARAG INC

Inventor(s): (std): BALSLEY DUSTIN ; KUPER DANE ; MEWES JOHN ; SALENTINY DUSTIN ; SALENTINY DUSTIN M ; MEWES JOHN J

Agent(s): LAZARIS IP; LAZARIS SPYROS

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

Title: AUTOMATED TRACKING AND IDENTIFICATION IN A CROP PRODUCTION CYCLE

Abstract: An improved system for tracking the application of crops and field amendments being applied to fields is disclosed. A series of passive communication devices are included in products being applied to the field. As seed and other products are supplied to the field, the passive communication devices are delivered to the field as well. A reader is mounted to the agricultural vehicle and is in communication with the passive devices to read data stored on each device. The data may include the type and variety of product in which the passive devices were supplied. A controller on the vehicle receives data from the reader to identify what product has been applied to the field. The controller may store data on any additional product subsequently applied to the field and/or may verify that subsequent product is acceptable for application to a crop in the field prior to application.

Classifications:

International (IPC 8-9): A01B79/00 A01C21/00 G05D1/02

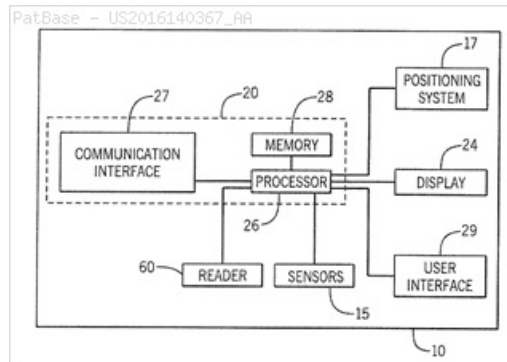
G06K19/07 G06K7/10 (Advanced/Invention);

A01B79/00 (Advanced/Non-invention)

CPC: G06K7/10297 G06K7/10376 A01C21/005 A01B79/005

G05D1/021 A01B79/00 G06K19/0723

US: 340/10.1



Family:

Publication number	Publication date	Application number	Application date
BR102015028436 A2	20160524	BR20151028436	20151112
US2016140367 AA	20160519	US20140547692	20141119
US9904821 BB	20180227	US20140547692	20141119

Priority:

US20140547692 20141119

Probable Assignee:

CNH INDUSTRIAL AMERICA LLC

Assignee(s): (std):

CNH IND AMERICA LLC

Assignee(s):

CNH INDUSTRIAL AMERICA LLC

Inventor(s): (std):

DOLLINGER TYSON ; DOLLINGER TYSON J

Inventor(s):

TYSON J DOLLINGER

Agent(s):

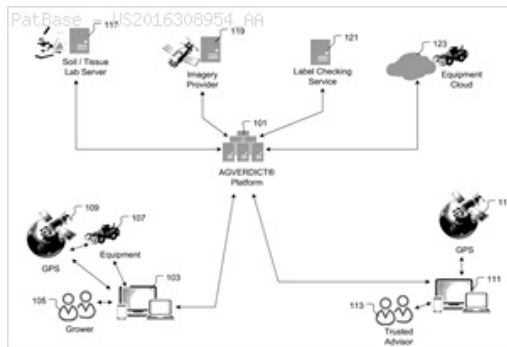
RICHARD K; REBECCA L

Title: SYSTEMS AND METHODS FOR CLOUD-BASED AGRICULTURAL DATA PROCESSING AND MANAGEMENT

Abstract: A cloud-based system for integration of agricultural data with geolocation-based agricultural operations is provided. The system receives agricultural-related data associated with a given geographic area and transforms the received data into an analysis-ready format. The system processes the received data through one or more algorithms to determine at least one operation to be performed within the given geographic area. The system generates a set of instructions for execution of the at least one operation within the given geographic area as a function of geolocation, where the instructions are coded for direct use by a controller of a specified type of agricultural equipment. The system transmits the instructions over a wireless communication channel to the controller, where the instructions cause the controller to direct operation of the agricultural equipment to perform the at least one operation within the given geographic area as a function of geolocation in an automated manner.

Classifications:**International (IPC 8-9):** G06F15/16 G06F17/30 H04L29/08

H04W4/00 (Advanced/Invention)

CPC: H04L67/10 G06F17/30241 H04L67/18 H04L67/12 H04W4/60**US:** 709/217**Family:**

Publication number	Publication date	Application number	Application date
US2016308954 AA	20161020	US20160133658	20160420
US2017041407 AA	20170209	US20160299881	20161021
US2017257426 AA	20170907	US20170601558	20170522
US9667710 BB	20170530	US20160133658	20160420
US9813512 BB	20171107	US20160299881	20161021

Priority:

US20150177375P 20150420 US20150245953P 20151023 US20160133658 20160420
US20160299881 20161021 US20170601558 20170522

Probable Assignee: AGVERDICT INC**Assignee(s):** (std): AGVERDICT INC ; WILBUR ELLIS CO**Inventor(s):** (std): ELLSWORTH JASON ; MOHAPATRA ADARSHA ; OOMMEN TOJI ; THAYER DAVID ; WILBUR MICHAEL**Agent(s):** MARTINE PENILLA GROUP LLP

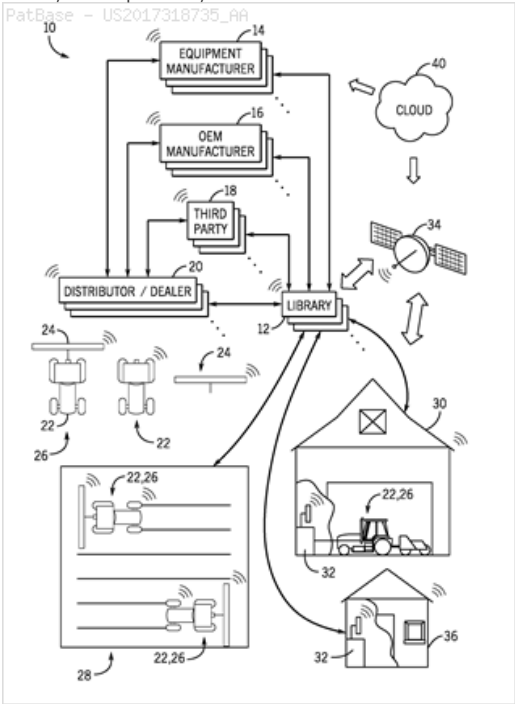
Title: EQUIPMENT LIBRARY FOR COMMAND AND CONTROL SOFTWARE

Abstract: A method includes receiving an equipment configuration code file for configuration and control of a work vehicle, for configuration and control of an attachment to be carried or towed by the work vehicle, or for combined configuration and control of both the work vehicle and the implement in combination, altering the equipment configuration code file for use of the work vehicle, the implement, or both in an actual work setting, and storing the altered equipment configuration code file in an electronic storage medium for later access for use of the work vehicle, the implement, or both.

Classifications:

International (IPC 8-9): A01B76/00 A01B79/00 G06F7/70 G06F8/40 G06F9/45 G07C5/00 (Advanced/Invention)

CPC: A01B79/005 A01B76/00 G06F8/40 G07C5/008



Family:

Publication number	Publication date	Application number	Application date
US2017318735 AA	20171109	US20160145352	20160503
US10010021 BB	20180703	US20160145352	20160503
WO17192758 A1	20171109	WO2017US30901	20170503

Priority:

US20160145352 20160503

Probable Assignee: AUTONOMOUS SOLUTIONS INC

Assignee(s): (std): AUTONOMOUS SOLUTIONS INC ; CNH IND AMERICA LLC

Assignee(s): CNH INDUSTRIAL AMERICA LLC

Inventor(s): (std): FOSTER CHRISTOPHER ALAN ; MORWOOD DANIEL JOHN ; POSSELIUS JOHN HENRY ; TURPIN BRET TODD

Agent(s): RICKARD K; REBECCA L; KANTOR ANDREW L 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 DJ 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 KH KM KN KP KR KW 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

Title: Control system for executing a task instruction by performing distributed processing via a number of modules

Abstract: A control system for executing task instructions, comprising a higher-order module for making an inquiry as to whether or not a task instruction can be executed, and a lower-order module for determining whether or not the task instruction can be executed, in response to the inquiry made by the higher-order module, the higher-order module including a task instruction decomposition section for decomposing the task instruction into a sequence of task instructions executable by the lower-order module, when the task instruction is inexecutable by the lower-order module, and further including a task instruction allocation section for allocating an executable task instruction to the lower-order module.

Classifications:

International (ipc 8-9): B23Q41/00 B25J13/00 B65G61/00
G05B15/02 G05B19/02 G05B19/414 G05B19/418 G06Q50/00
G06Q50/04 (Advanced/Invention);

B23Q41/00 (Advanced/Non-invention);

B23Q41/00 B25J13/00 B65G61/00 G05B15/02 G05B19/02

G05B19/414 G05B19/418 G06Q50/00 (Core/Invention);

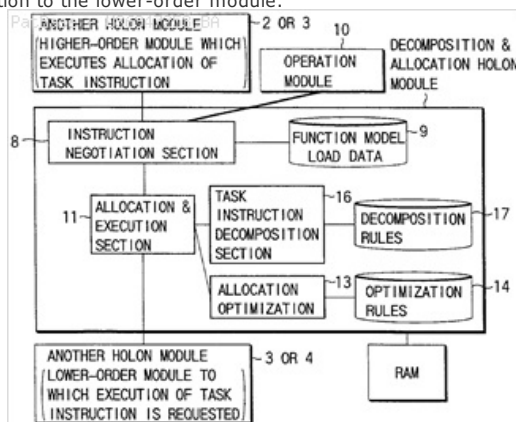
B23Q41/00 (Core/Non-invention)

International (ipc 1-7): B23Q41/00 B25J13/00 G05B13/02
G05B15/02 G05B19/02 G05B19/418 G06F17/60

CPC: G05B15/02 G05B19/4142 G05B2219/33055 Y02P90/30
Y02P90/12

European: G05B15/02 G05B19/414K S05B219/33055

US: 700/173 700/2 700/20 700/250 700/28 700/30 700/31 709/100
709/105 718/100 718/105



Family:

Publication number	Publication date	Application number	Application date
JP11039018 A2	19990212	JP19980120739	19980430
JP3643478 B2	20050427	JP19980120739	19980430
US6347253 BA	20020212	US19990264002	19990308

Priority:

JP19970128669 19970519 JP19980120739 19980430

Probable Assignee: TOSHIBA KK

Assignee(s): (std): TOSHIBA CORP ; TOSHIBA KK

Assignee(s): KABUSHIKI KAISHA TOSHIBA

Inventor(s): (std): FUJITA NOBUYUKI ; KOHNO YOSHIKI ; KONO YOSHIKI

Title: Method and apparatus to enable processing multiple capabilities for a sub-job when using a set of commonly shared resources

Abstract: Prioritizing a printing system's basic processing resources includes providing a job contention manager (JCM) that adds a first basic job resource to queues of each basic resource which a first video capability requires to perform a first sub-job. The first basic job resources are ready for processing if they are at the top of all of the queues, of all the basic resources, required by the first video capability. The JCM adds a second basic job resource sub-job to queues of each basic resource which a second video capability requires to perform the first sub-job. The second basic job resources, are ready for processing after the first basic job resource, if the first and second basic job resources in the queue are submitted by the same job service and if the second basic job resource is for the same sub-job as the first basic job resource's sub-job.

Classifications:

International (IPC 8-9): G03G21/00 H04N1/00

H04N1/32 (Advanced/Invention);

G03G21/00 H04N1/00 H04N1/32 (Core/Invention)

International (IPC 1-7): G03G21/00 G06F15/00 G06F17/30 G06F9/46

H04N1/00 H04N1/32

CPC: H04N1/00915 H04N1/00954 H04N1/32561 H04N1/32598

European: H04N1/00V1 H04N1/00V9 H04N1/32K H04N1/32K9

US: 358/1.15 358/1.16 358/1.9

PatBase - US6762857_BA

U.S. Patent Jul. 13, 2004 Sheet 1 of 15 US 6,762,857 B1

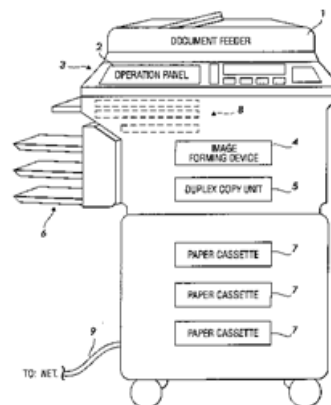


FIG. 1
PRIOR ART

Family:

Publication number	Publication date	Application number	Application date
EP1104169 A2	20010530	EP20000310589	20001129
EP1104169 A3	20020710	EP20000310589	20001129
EP1104170 A2	20010530	EP20000310595	20001129
EP1104170 A3	20020710	EP20000310595	20001129
JP2001228749 A2	20010824	JP20000363553	20001129
US6762857 BA	20040713	US19990450151	19991129

Priority:

US19990450151 19991129

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): LAMENDOLA NICHOLAS M ; SALGADO DAVID L ; TURMON RODNEY L

Agent(s): YOSHIDA KENJI; ISHIDA JUN

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

Title: VEHICLE SHARING SYSTEM

Abstract: When a staff member reports a start of daily work from a portable terminal to a control center, a staff member controlling section which is included in the controlling section starts to handle the staff member. Also, a motor vehicle controlling section which is included in the controlling section acknowledges a maintenance condition of a shared motor vehicle which is recorded in a motor vehicle master and a port master and a partiality condition of the motor vehicles in each port so as to detect a staff member's job which is supposed to be done by the staff member and a port position in which the job is necessary to be done by the staff member. The staff member controlling section selects a staff member who can arrive at the port first in which a new job occurs according to the estimated job completion time at which the staff member completes the present job. A job notifying section which is included in the controlling section notifies the job to the portable terminal of the staff member. By doing this, it is possible to provide a motor vehicle sharing system in which a staff member can be allocated to the staff member's job such as maintenance and reallocation of the motor vehicle efficiently.

Classifications:

International (IPC 8-9): G06F19/00 G06Q10/00 G06Q10/04 G06Q10/06 G06Q10/10 G06Q50/00 G06Q50/30 G07C5/00 G07C5/08 G08G1/00 G08G1/123 (Advanced/Invention)

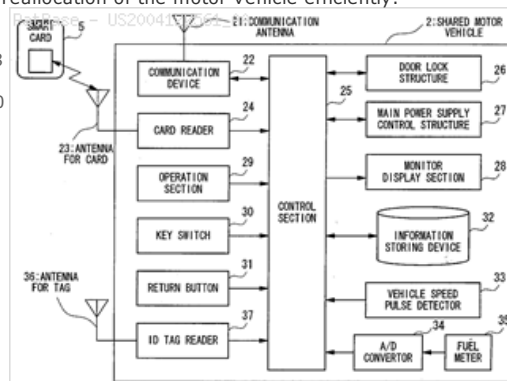
International (IPC 1-7): G06F17/00 G06F17/60 G06F19/00 G08G1/00

CPC: G06Q10/06 G07C5/008 G07C5/085 G08G1/20 G08G1/207

European: G06Q10/06 G07C5/00T G07C5/08R2 G08G1/20

G08G1/20C

US: 701/1 701/117 701/117S 701/1P

**Family:**

Publication number	Publication date	Application number	Application date
JP2002304498 A2	20021018	JP20010105077	20010403
JP4703882 B2	20110615	JP20010105077	20010403
US2004122561 AA	20040624	US20040472196	20040126
WO02082337 A1	20021017	WO2002JP03198	20020329

Priority:

JP20010105077 20010403 WO2002JP03198 20020329

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s): (std): HONDA MOTOR CO LTD ; KOKUBU MAMORU ; SHIMIZU TOMOHIDE ; UEHARA YUJI ; FUJINUMA MICHIO

Assignee(s): HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s): (std): UEHARA YUJI ; SHIMIZU TOMOHIDE ; KOKUBU MAMORU ; FUJINUMA MICHIO

Designated states: SG US

Title: System, method and computer program product for data conversion in a computer network

Abstract: Conversion of a data in a variable field message to a fixed format message. The variable field message has a varying length and fields of varying types of data. The corresponding fixed format message has fields of a fixed data type and length, which facilitates parsing and processing data from the variable field message. Customers for the data conversion or other processing are load balanced among multiple servers sharing load level information.

Classifications:

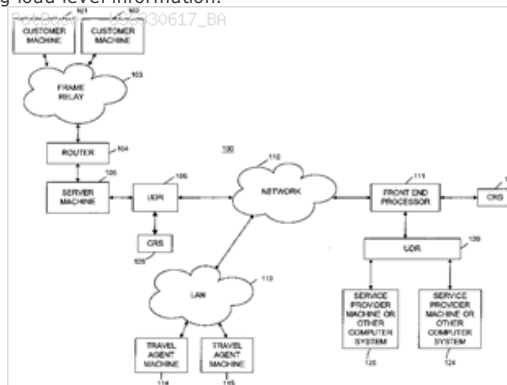
International (ipc 8-9): G06F13/00 G06F15/177 G06F17/30 G06F9/50 G06Q10/02 H04L29/06 (Advanced/Invention); G06F13/00 G06Q50/00 H04L29/06 (Advanced/Non-invention); G06F13/00 G06F15/16 G06F17/30 G06F9/46 G06Q50/00 H04L29/06 (Core/Invention)

International (ipc 1-7): G06F13/00 G06F15/16 G06F15/177 G06F17/30 G06F17/60 G06F9/46 H04L29/06

CPC: G06F9/505 G06F17/30569 G06Q10/02

European: G06F17/30S5V G06F9/50A6L G06Q10/02

US: 705/5 707/E17.006 709/203 709/226 709/241 709/246



Family:

Publication number	Publication date	Application number	Application date
AU199927881 A1	19990915	AU19990027881	19990225
JP2002505482 T2	20020219	JP20000533836T	19990225
US6330617 BA	20011211	US19980031671	19980227
US6470394 BA	20021022	US20000686998	20001012
WO9944155 A2	19990902	WO1999US04070	19990225
WO9944155 A3	20000309	WO1999US04070	19990225

Priority:

US19980031671 19980227 WO1999US04070 19990225 US20000686998 20001012

Probable Assignee: SABRE GLBL INC

Assignee(s): (std): SABRE INC ; SABRE GROUP INC

Assignee(s): THE SABRE GROUP INC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SABRE HOLDINGS CORP ; SITE59COM LLC ; TVL LP ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; BANK OF AMERICA NA ; DEUTSCHE BANK AG ; DEUTSCHE BANK NEW YORK BRANCH ADMINISTRATIVE AGENT ; DEUTSCHE BANK NEW YORK BRANCH ADMINISTRATIVE AGENT AG AS ; SABRE GLBL INC ; GETTHERE LP

Inventor(s): (std): THORPE III KENNETH P ; SHENOY ARAVINDA ; KARRA SRINIVAS ; BAMFORTH JOHN ; HUBER GLENN ; BUCKLEY KEVIN ; AKSHAYAKUMAR SUDHA ; THORPE KENNETH P III

Inventor(s): THORPE KENNETH P ; ARAVINDA SHENOY ; GLENN HUBER ; KENNETH P THORPE III ; SUDHA AKSHAYAKUMAR ; KEVIN BUCKLEY ; JOHN BAMFORTH ; SRINIVAS KARRA

Agent(s): TSURUTA JUNICHI ; NISHIYAMA MASAYA ; HIGUCHI SOTOJI ; ISHIDA TAKASHI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK 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 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 SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: SYSTEM FOR RECOMMENDING CROPS AND ATTACHMENTS TO FARM TRACTORS

Abstract: A system is provided that comprises a crop database for storing information on the crops that are appropriate for cultivation in terms of cultivation areas and cultivation seasons and a server for providing over the Internet a web site that is associated with the crop database. In response to a user's access the web site, the server transmits an input form to the user so as to allow the user to input the user's crop cultivation area and the cultivation season in the input form. The server retrieves crop information from the crop database based on the information in the filled-in input form transmitted back from the user, and to transmit retrieved crop information to the user. The system may comprise a farm tractor database for storing information on farm tractors that are appropriate for crops to be cultivated as well as information on attachments to be mounted on these farm tractors. The system includes a server for providing over the Internet a web site that is associated with the farm tractor database. In response to a user's access the web site, the server transmits to the user a page including farm tractor information retrieved from the farm tractor database and a linked button. When the user moves a cursor onto the button and clicks it, that event is transmitted to the server. The server retrieves information on the attachments from the farm tractor database and transmits retrieved information to the user.

Classifications:

International (IPC 8-9): A01B79/00 A01G1/00 G06F17/30
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G06Q50/02 G06Q50/10 G09B29/00 G09B29/10

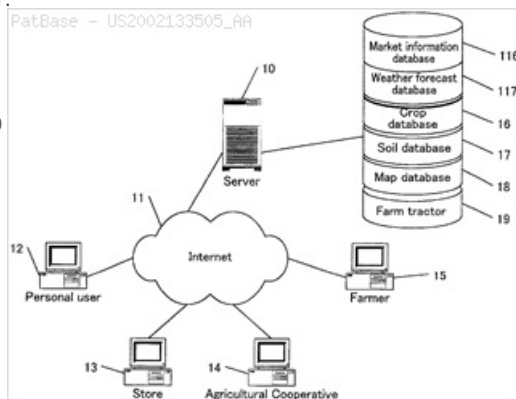
H04M11/00 (Advanced/Invention)

International (IPC 1-7): A01B79/00 A01G1/00 G06F17/30 G06F17/60
G06F19/00 G06F7/00 G09B29/00 G09B29/10 H04M11/00

CPC: G06Q30/02

European: G06F17/60B2 G06Q30/02

US: 1/1 1/1P 707/104.1 707/999.107 707/999.107S

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0208482 A	20040309	BR2002PI08482	20020226
CA2435995 AA	20030724	CA20022435995	20020226
CN1493050 A	20040428	CN20028005456	20020226
EP1389326 A1	20040218	EP20020700776	20020226
JP2002269173 A2	20020920	JP20010072723	20010314
JP2002278968 A2	20020927	JP20010081242	20010321
JP2002279252 A2	20020927	JP20010081241	20010321
JP2002288363 A2	20021004	JP20010085896	20010323
JP2002288563 A2	20021004	JP20010089524	20010327
PE10242002 A1	20021108	PE20020000196	20020312
TH53718 A	20021105	TH20021000837	20020312
US2002133505 AA	20020919	US20020081151	20020225
WO02073484 A2	20020919	WO2002JP01703	20020226

Priority:

JP20010072723 20010314 JP20010081241 20010321 JP20010081242 20010321
JP20010085896 20010323 JP20010089524 20010327 WO2002JP01703 20020226

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s): (std): HONDA GIKEN KOGYO KK ; HONDA MOTOR CO LTD ; KUJI HIDEKI

Assignee(s): HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO KABUSHIKI KAISHA

Inventor(s): (std): HIDEKI KUJI ; KUJI HIDEKI

Inventor(s): HIDEKI ; KUJI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP

Designated states: AT BE BR CA CH CN CY DE DK ES FI FR GB GR ID IE IT LI LU MC NL PH PT SE TR VN

Title: MASSIVELY COMPUTATIONAL PARALLIZABLE OPTIMIZATION MANAGEMENT SYSTEM AND METHOD

Abstract: A distributed processing system, program product and method of executing a computer program distributed across a plurality of computers. First, interested participants register and provide a commitment for available excess computer capacity. Participants may enter a number of available hours and machine characteristics. A normalized capacity may be derived from the machine characteristics and a normalized excess capacity may be derived from the number of hours committed for the participant. New registrants may be assigned benchmark tasks to indicate likely performance. Parties may purchase capacity for executing large computer programs and searches. The computer program is partitioned into multiple independent tasks of approximately equal size and the tasks are distributed to participants according to available excess capacity. A determination is made whether each distributed task will execute within a selected range of other distributed tasks and, if not, tasks may be reassigned. The likelihood that a task will complete may be based on the participant's past performance. As each task is completed, the completing participant is checked to determine if the task is on schedule. Any task assigned to computers that are found to be behind schedule may be reassigned to other participants. A check is made to determined whether each task is assigned to at least one participant and several tasks may be assigned to multiple participants. Once all tasks are complete, the best result is selected for each task. Each participant may be compensated for normalized excess capacity and that compensation and charges to requesting parties may be based on total available normalized capacity.

Classifications:

International (IPC 8-9): G06F15/16 G06F9/50 (Advanced/Invention);
G06F15/16 G06F9/46 (Core/Invention)

International (IPC 1-7): G06F15/16

CPC: G06F9/5072 G06F9/5066

European: G06F9/50C2

US: 709/201 709/213 709/230 709/232 718/107

PatBase - US200315887_AA

Patent Application Publication Aug. 21, 2003 Sheet 1 of 4 US 2003/015887 A1

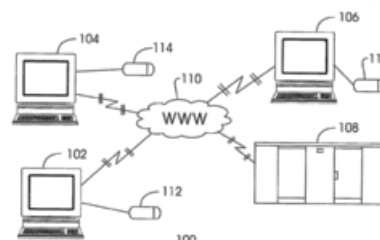


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US200315887 AA	20030821	US20020045857	20020109
US7013344 BB	20060314	US20020045857	20020109

Priority:

US20020045857 20020109

Probable Assignee: TWITTER INC**Assignee(s):** (std): IBM**Assignee(s):** INT BUSINESS MACHINES CORP ; TWITTER INC**Inventor(s):** (std): MEGIDDO NIMROD**Agent(s):** CHARLES W; MARC D

Title: METHODS AND APPARATUS FOR PRECISION AGRICULTURE OPERATIONS UTILIZING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM SYSTEMS

Abstract: Real time kinematic (RTK) global positioning system (GPS) technology is integrated with precision farming methodologies to provide highly accurate seeding, cultivating, planting and/or harvesting operations. RTK GPS systems are used to control fully or semi-autonomous vehicles in these operations and may allow for precision planting of seeds (e.g., from a seeder equipped with an RTK GPS receiver and related equipment) and/or precision weed removal (e.g., using a vehicle fitted with weed eradication mechanisms such as augers and/or herbicide sprayers). Crop specific fertilizer/pesticide application is also enabled through the use of centimeter-level accurate positioning techniques.

Classifications:

International (IPC 8-9): A01B79/00 G01S19/14
G01S19/23 (Advanced/Invention)

International (IPC 1-7): G01C21/36 G06F19/00 G06F7/70 G06G7/78

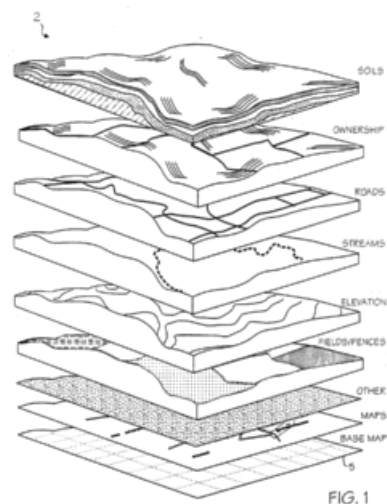
CPC: Y10S111/904 A01B79/005 A01C21/005 A01B39/18 Y02A40/12

European: A01B79/00P A01C21/00

US: 111/200 111/904 172/2 172/2S 172/5 342/357.13 342/357.17
342/357.52 342/357.62 56/10.20A 56/10.20D 56/10.2A 56/10.2D
56/102A 56/102D 701/213 701/213S 701/214 701/466 701/468
701/469 701/469S 701/470 701/50 701/50P

PatBase - US2003187560_AA

Patent Application Publication Oct. 2, 2003 Sheet 1 of 21 US 2003/0187560 A1



Family:

Publication number	Publication date	Application number	Application date
US2003187560 AA	20031002	US20030400949	20030326
US6199000 BA	20010306	US19980116312	19980715
US6553299 BA	20030422	US20000721372	20001122

Priority:

US19980116312 19980715 US20000721372 20001122 US20030400949 20030326

Probable Assignee: TRIMBLE NAVIGATION LTD

Assignee(s): (std): TRIMBLE NAVIGATION LTD

Assignee(s): KELLER RUSSELL J ; LANGE ARTHUR F ; NICHOLS MARK E ; TRIMBLE NAVIGATION LIMITED

Inventor(s): (std): NICHOLS MARK E ; LANGE ARTHUR F ; KELLER RUSSELL J

Title: SYSTEMS AND METHODS TO ALLOCATE APPLICATION TASKS TO A POOL OF PROCESSING MACHINES

Abstract: Systems and methods are provided to allocate application tasks to a pool of processing machines. According to some embodiments, a requestor generates a scope request including an indication of a number of compute units to be reserved. The requestor also provides an application request associated with the scope. A subset of available processing machines may then be allocated to the scope, and the application request is divided into a number of different tasks. Each task may then be assigned to a processing machine that has been allocated to the application request. According to some embodiments, each task is associated with a deadline. Moreover, according to some embodiments an overall cost is determined and then allocated to the requestor based on the number of compute units that were reserved for the scope.

Classifications:

International (IPC 8-9): G06F15/16 G06F15/173 G06F21/00

G06F9/46 G06F9/50 H04L29/08 (Advanced/Invention);

G06F15/16 G06F9/46 (Core/Invention)

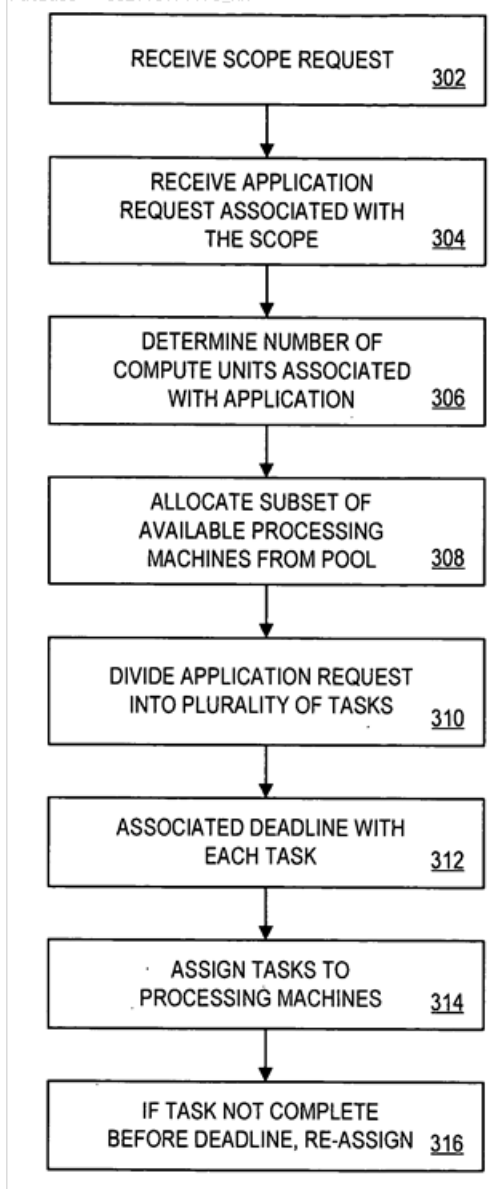
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G06F2209/5017 H04L67/10

European: G06F9/50A6 H04L29/08N9

US: 705/52 709/201 709/201S 709/226 709/226S 718/104 718/104P 718/106

PatBase - US2006070078_AA



Family:

Publication number	Publication date	Application number	Application date
US2006070078 AA	20060330	US20050208991	20050822
US2013305256 AA	20131114	US20130867881	20130422
US8429660 BB	20130423	US20050208991	20050822
US9558037 BB	20170131	US20130867881	20130422

Priority:

US20040603612P 20040823 US20050208991 20050822 US20130867881 20130422

Probable Assignee: GOLDMAN SACHS AND CO LLC

Assignee(s): (std): BYRON MARRY D ; BYRON MARY D ; DWECK JAY S ; FELLOWS MICHAEL ; GOLDMAN SACHS AND CO ; MORRISSEY MARK T ; RICHARD DAVID G

Assignee(s): GOLDMAN SACHS AND CO LLC

Inventor(s): (std): RICHARD DAVID G ; MORRISSEY MARK T ; FELLOWS MICHAEL ; DWECK JAY S ; BYRON MARRY D ; MORRISSEY MARK T ; BYRON MARY D

Inventor(s): RICHARD DAVID ; MORRISSEY MARK ; DWECK JAY ; BYRON MARRY

Agent(s): BUCKLEY MASCHOFF AND TALWALKAR LLC ; PERKINS COIE LLP

Title: METHOD AND SYSTEM FOR TASK MAPPING TO ITERATIVELY IMPROVE TASK ASSIGNMENT IN A HETEROGENEOUS COMPUTING SYSTEM

Abstract: Method and system aspects for mapping tasks to iteratively improve task assignment in a heterogeneous computing (HC) system include identifying a current machine that defines a makespan in the HC system. Further included is the reassigning of at least one task from the current machine to at least one alternate machine in the HC system according to a predefined reassignment constraint. Reassigning also includes reassigning the at least one task when the at least one alternate machine can perform the at least one task in addition to previously assigned work while finishing in less time than the time of the makespan reduced by time required for the task being reassigned.

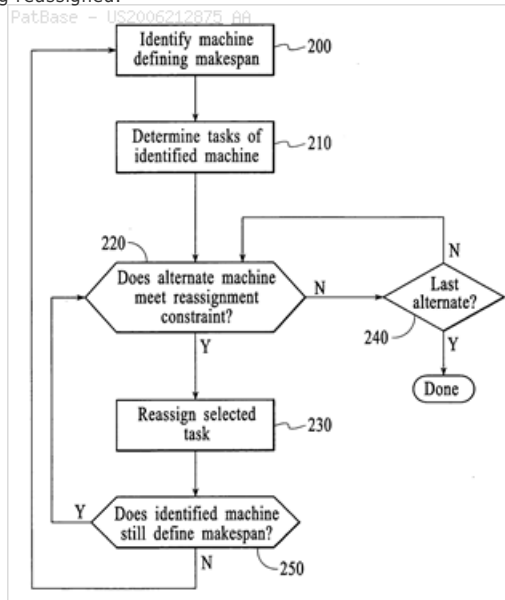
Classifications:

International (IPC 8-9): G06F3/00 G06F9/46 (Advanced/Invention); G06F9/46 (Core/Invention)

CPC: G06F2209/506 G06F9/5038 G06F9/4856

European: G06F9/48C4P2 G06F9/50A6E

US: 718/107 718/107P 718/318 719/310 719/318



Family:

Publication number	Publication date	Application number	Application date
US2006212875 AA	20060921	US20050083384	20050316
US8589944 BB	20131119	US20050083384	20050316

Priority:

US20050083384 20050316

Probable Assignee: RICOH CO LTD

Assignee(s): (std): HALLER MICHAEL ; IBM ; RIJAVEC NENAD ; RICOH PRODUCTION PRINT SOLUTIONS ; SMITH II JAMES T ; MITCHELL JOAN L

Assignee(s): RICOH CO LTD ; RICOH PRODUCTION PRINT SOLUTIONS LLC ; INFOPRINT SOLUTIONS CO ; INFOPRINT SOLUTIONS CO LLC A DELAWARE CORP ; INT BUSINESS MACHINES CORP

Inventor(s): (std): MITCHELL JOAN L ; RIJAVEC NENAD ; SMITH II JAMES T ; HALLER MICHAEL ; SMITH JAMES T II

Inventor(s): SMITH JAMES T II ; MITCHELL JOAN ; SMITH JAMES ; SMITH JAMES T

Agent(s): SAWYER LAW GROUP LLP ; DUFT BORNSSEN AND FETTIG LLP

Title: PROCESSES FOR PROJECT-ORIENTED JOB-SITE MANAGEMENT

Abstract: Systems and methods are disclosed for project-oriented job-site management. According to one embodiment, a system is disclosed for managing a project environment including a work machine performing operations associated with a project included in the project environment. The system may include a project management system configured to store a first set of project specifications for the project in a storage device, receive operation data from the work machine reflecting the operations of the work machine, analyze the operation data to determine the status of the work machine, and generate a second set of project specifications based on the status of the work machine. The system may also include a project subscriber configured to receive the second set of project specifications from the project management system and determine an action to be taken with the work machine based on the status of the work machine. The project management system provides a command to the work machine for adjusting the operations of the work machine associated with the project based on the second set of project specifications and the determined action.

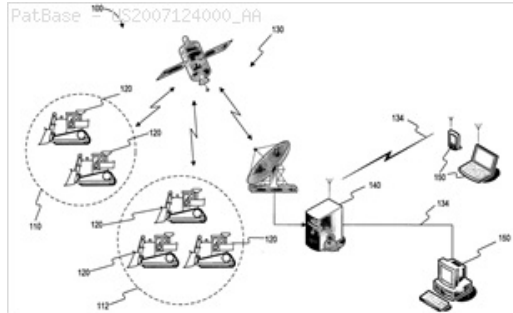
Classifications:

International (IPC 8-9): G05B15/02 (Advanced/Invention);
G05B15/02 (Core/Invention)

CPC: G06Q10/103 G05B2219/23297 G05B19/0426

European: G05B19/042P G06Q10/103 S05B219/23297

US: 700/9 700/9P 701/50 701/50S 705/1 705/1.1 705/301 705/301P



Family:

Publication number	Publication date	Application number	Application date
US2007124000 AA	20070531	US20050289309	20051130

Priority:

US20050289309 20051130

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): CATERPILLAR INC

Inventor(s): (std): MOUGHLER ERIC A ; TURCOT KEITH A ; VYAS BHAVIN J

Inventor(s): VYAS BHAVIN JAGDLSHBHAI ; VYAS BHAVIN ; TURCOT KEITH ; MOUGHLER ERIC ; TURCOT KEITH ALBERT ; MOUGHLER ERIC ALAN

Agent(s): CATERPILLAR FINNEGAN HENDERSON LLP

Title: SYSTEM FOR INTEGRATED UTILIZATION OF DATA TO IDENTIFY, CHARACTERIZE, AND SUPPORT SUCCESSFUL FARM AND LAND USE OPERATIONS

Abstract: Computer configurations, search processors (2), software, and methods of viewing and analyzing information regarding agriculture or land use automatically located relationally-linked agronomic entities with both real (18) and virtual (8) displays. Relational linking exist through broad assessment of commonality information with fuzzy logic heuristics. Dynamic link presentation (6) can exist with congregated and hierarchical information displays (29) such as at the farm level, at a location level, at a physically aggregated parcel level with hierarchical display of farms or agronomic entity ownership, management, organization, and crop usages that afford users an unprecedented series of views into the businesses of land use, food production, and resource conservation. A meta-syntactic agronomic information generator (31) can facilitate imputed information through the integration of multiple databases (32). Predictive and application-specific configurations can allow at-a-glance understanding of agronomic organizations and agronomic decision-making to see where to most optimally devote resources for higher success or efficiency.

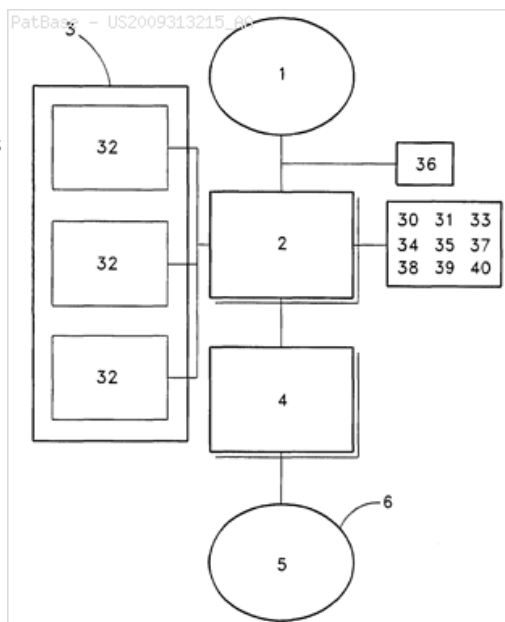
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CPC: G06Q10/00 G06Q10/0637

European: G06Q10/00 G06Q10/0637

US: 1/1 1/1P 705/7 705/7.36 705/7.360S 705/7S 706/52 706/52S 707/102 707/3 707/705 707/758 707/776 707/999.003 707/999.003S 707/999.102 707/999.102S 707/E17.014 707/E17.014S 707/E17.018 707/E17.018S 707/E17.048 707/E17.048S 707/E17.108 707/E17.108S



Family:

Publication number	Publication date	Application number	Application date
US2009313215 AA	20091217	US20060096167	20061205
US7991754 BB	20110802	US20060096167	20061205
WO07067579 A2	20070614	WO2006US46465	20061205
WO07067579 A3	20090514	WO2006US46465	20061205

Priority:

US20050742943P 20051205 US20060096167 20061205 WO2006US46465 20061205

Probable Assignee: ONELMAGE LLC

Assignee(s): (std): MAIZEL MARGARET STEWART ; ONEIMAGE LLC ; THOEN WILLIAM L

Assignee(s): VISUAL FARMS LLC ; ONELMAGE LLC

Inventor(s): (std): MAIZEL MARGARET STEWART ; THOEN WILLIAM L

Agent(s): SANTANGELO LAW OFFICES PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: LIVESTOCK MANAGEMENT SYSTEMS AND METHODS

Abstract: This invention relates to systems and methods for managing livestock, such as cattle, from conception to consumption. More particularly, this invention relates to systems and methods in which users, such as producers, feedlot managers, packers, buyers, sellers, and consumers, are brought together through shared information and improved communication. Users may access one or more applications, tools, and/or systems to increase the value of each animal, monitor and track each animal, and improve the efficiency of their operation.

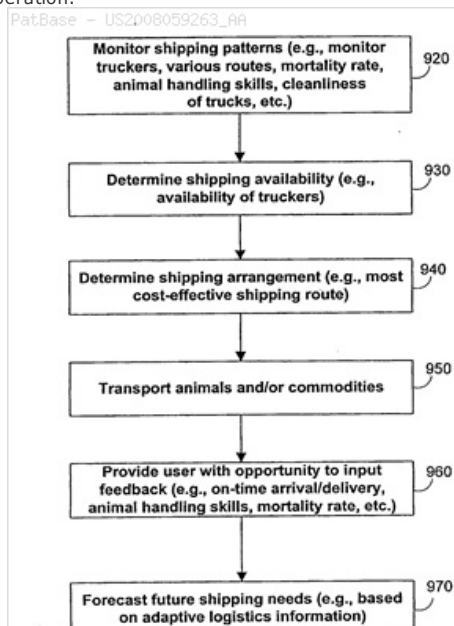
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CPC: G06Q30/00 G06Q10/063 G06Q10/0631 G06Q10/06315 G06Q10/0635 G06Q10/06375 G06Q10/06395 G06Q10/08 G06Q10/087 G06Q30/018 G06Q30/0201 G06Q30/0203 G06Q40/00 G06Q40/04

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US: 1/1 1/1P 119/174 119/51.02 235/375 340/573.3 435/6.11 435/6.12 435/6.14 435/6.17 435/7.1 600/300 705/10 705/10P 705/26 705/26P 705/28 705/317 705/317P 705/35 705/35P 705/37 705/37P 705/37S 705/7 705/7.11 705/7.12 705/7.120P 705/7.13 705/7.25 705/7.250P 705/7.28 705/7.280P 705/7.29 705/7.290P 705/7.32 705/7.320S 705/7.37 705/7.370S 705/7.41 705/7.410S 705/7P 707/104.1 707/999.107 707/999.107S 707/E17.001 707/E17.001S 707/E17.014 707/E17.014S



Family:

Publication number	Publication date	Application number	Application date
US2008059263 AA	20080306	US20070977625	20071025
US2008059264 AA	20080306	US20070977673	20071025
US2008059330 AA	20080306	US20070977623	20071025
US2008059534 AA	20080306	US20070977665	20071025
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US2008077481 AA	20080327	US20070977508	20071025
US2008097809 AA	20080424	US20070999744	20071206
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US8642262 BB	20140204	US20070977665	20071025

Priority:

US20020071437 20020207	US20070977508 20071025	US20070977623 20071025
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Probable Assignee: MWI VETERINARY SUPPLY CO

Assignee(s): (std): AFIMIWALA KHURSHID A ; BRINK PHILIP C ; CRAIN SCOTT L ; GIBB JAMES B ; MICRO BEEF TECHNOLOGIES LTD ; MWI VETERINARY SUPPLY CO ; STROMAN RICHARD D ; NIEDECKEN TIMOTHY G

Assignee(s): EMERGE INTERACTIVE INC

Inventor(s): (std): AFIMIWALA KHURSHID A ; BRINK PHILIP C ; CRAIN SCOTT L ; GIBB JAMES B ; NIEDECKEN TIMOTHY G ; STROMAN RICHARD D

Inventor(s): AFIMIWALA KHURSHID ; STROMAN RICHARD ; NIEDECKEN TIMOTHY ; GIBB JAMES ; CRAIN SCOTT ; BRINK PHILIP

Agent(s): KLARQUIST SPARKMAN LLP

Title: PLANTER MONITOR SYSTEM AND METHOD

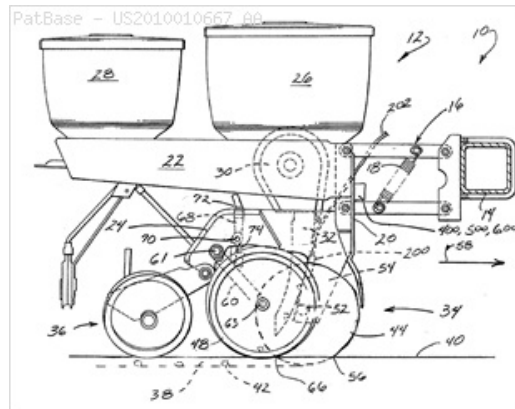
Abstract: A planter monitor system and method that provides an operator with near real-time data concerning yield robbing events and the economic cost associated with such yield robbing events so as to motivate the operator to take prompt corrective action.

Classifications:

International (IPC 8-9): A01B79/00 A01C11/00 A01C14/00
A01C15/00 A01C7/00 A01C7/04 B60Q1/26 G06F17/00 G06F19/00
G06F7/70 G06G7/00 G06G7/76 G06Q30/00 G06Q40/00 G06Q99/00
G06T11/20 G08B21/00 (Advanced/Invention);
A01C11/00 G06F17/00 G06Q30/00 G06T11/20 (Core/Invention)
CPC: B60Q1/26 A01C14/00 A01B79/005 A01C7/04 G06Q40/12
G06Q99/00 Y10S111/903 Y10S715/965 A01C7/105 A01C7/205
A01C7/00

European: A01B79/00P A01C7/04 G06Q40/10 G06Q99/00

US: 111/200 111/903 340/431 340/431P 345/440.2 345/440.200S
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Family:

Publication number	Publication date	Application number	Application date
BRPI0806559 A2	20140415	BR2008PI06559	20080107
BRPI0806559 B1	20180410	BR2008PI06559	20080107
EP2104413 A1	20090930	EP20080705750	20080107
EP2104413 A4	20150325	EP20080705750	20080107
EP2104413 B1	20170405	EP20080705750	20080107
EP2104413 B8	20170607	EP20080705750	20080107
ES2627181 T3	20170727	ES20080705750T	20080107
TR201705910 T4	20170621	TR20170005910T	20080107
US2010010667 AA	20100114	US20080522252	20080107
US2012050023 AA	20120301	US20110292384	20111109
US2013138289 AA	20130530	US20130752031	20130128
US2014191857 AA	20140710	US20140206643	20140312
US8078367 BB	20111213	US20080522252	20080107
US8386137 BB	20130226	US20110292384	20111109
US8738243 BB	20140527	US20130752031	20130128
US9481294 BB	20161101	US20140206643	20140312
WO08086318 A1	20080717	WO2008US50445	20080107

Priority:

US20070883965P 20070108	EP20080705750 20080107	US20080522252 20080107
WO2008US50445 20080107	US20080883965P 20080108	US20090522252 20090706
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US20140206643 20140312		

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP ; KOCH JUSTIN L ; PREC PLANTING INC ; PREC PLANTING LLC ; PREC PLATING LLC ; SAUDER GREGG A

Assignee(s): PRECISION PLANTING LLC ; PRECISION PLATING LLC ; PRECISION PLANTING INC

Inventor(s): (std): GREGG A SAUDER ; JUSTIN L KOCH ; SAUDER GREGG A ; SAUDER GREGG ; KOCH JUSTIN L ; KOCH JUSTIN

Agent(s): WIGHTMAN DAVID ALEXANDER; LAWRENCE JOHN; ARIAS JUAN; ERDEM KAYA; PATENT DEPARTMENT LARKIN HOFFMAN DALY AND LINDGREN LTD; LARKIN HOFFMAN DALY AND LINDGREN LTD; THOMAS J; HICKMAN PALERMO BECKER BINGHAM LLP; OPPOLD THOMAS J

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HIGH INTEGRITY COORDINATION SYSTEM FOR MULTIPLE OFF-ROAD VEHICLES

Abstract: The illustrative embodiments provide a method and apparatus for controlling and coordinating multiple vehicles. In one illustrative embodiment, machine behaviors are assigned to multiple vehicles performing a task. The vehicles are coordinated to perform the task using the assigned behaviors and a number of signals received from other vehicles and the environment during performance of the task. In another illustrative embodiment, a role is identified for each vehicle in a group of vehicles. A number of machine behaviors are assigned to each vehicle depending upon the identified role for the vehicle. The machine behaviors are selected from coordinating machine behaviors stored in a behavior library. Each vehicle is then coordinated to perform the task according to the role and machine behaviors assigned.

Classifications:

International (IPC 8-9): G05B13/02 G05D1/02 G06F17/00

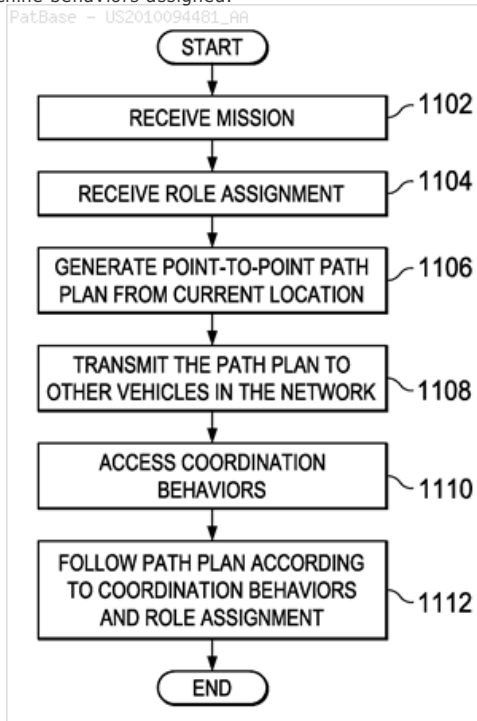
G06N5/04 (Advanced/Invention);

G06F17/00 (Core/Invention)

CPC: G05D1/0088 G05D1/0295 G05D1/0219 G05D1/024
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A01D34/008 A01D41/127 A01D75/185

European: G05D1/02E20F4 S05D1/02E10 S05D1/02E14D
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S05D1/02E6N S05D1/02E6V4 S05D1/02E8 S05D201/0201
S05D201/0202

US: 701/1 701/1P 701/29.1 701/29.3 701/482 701/50

**Family:**

Publication number	Publication date	Application number	Application date
EP2177964 A2	20100421	EP20090169591	20090907
EP2177964 A3	20110629	EP20090169591	20090907
US2010094481 AA	20100415	US20080251619	20081015
US8639408 BB	20140128	US20080251619	20081015

Priority:

US20080251619 20081015

Probable Assignee: DEERE AND CO

Assignee(s): (std): ANDERSON NOEL WAYNE ; DEERE AND CO

Assignee(s): DEERE AND COMPANY

Inventor(s): (std): ANDERSON NOEL WAYNE

Agent(s): HOLST SOENKE; DUKE W YEE; YEE AND ASSOCIATES PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: METHOD FOR PROVIDING AN APPLICATION TO PLANTS

Abstract: Therefore, the illustrative embodiments provide a computer implemented method and system for providing an application of a resource to plants. A plurality of per plant prescriptions for a plurality of plants are received and a source is selected to fulfill the plurality of per plant prescriptions to form a selected source. Movement of a mobile utility vehicle is controlled to the selected source, the resource is obtained, and movement of the mobile utility vehicle is controlled to each plant in the plurality of plants. The resource is applied from the mobile utility vehicle to each plant according to the per plant prescription.

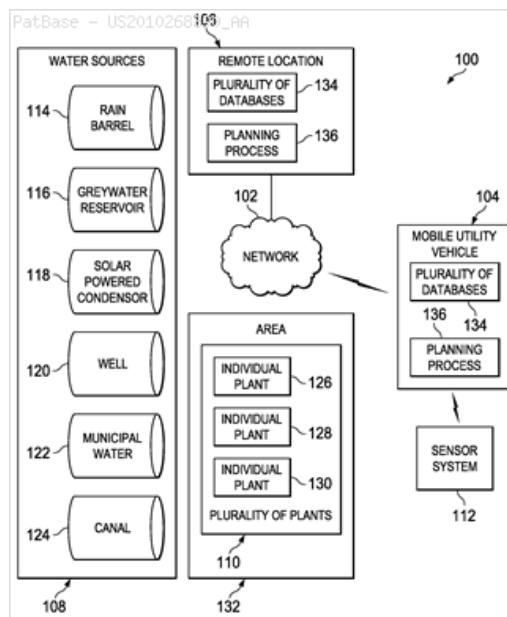
Classifications:

International (IPC 8-9): A01C23/00 A01G A01G1/00 A01G25/00 A01G25/16 A01G27/00 A01G9/26 B05B3/00 B05B9/03 G05D11/00 G05D7/00 G05D7/06 G06N5/02 G06Q10/00 (Advanced/Invention)

CPC: A01G25/167 G06Q10/06

European: A01G25/16D G06Q10/06

US: 239/146 239/148 239/225.1 340/5.2 340/5.200S 47/58.10RS 47/58.1R 56/10.2A 56/10.2D 700/283 700/284 700/284P 701/50 706/47 706/47S



Family:

Publication number	Publication date	Application number	Application date
AU2010201510 AA	20101104	AU20100201510	20100415
CN101869047 A	20101027	CN201010145267	20100413
EP2244217 A1	20101027	EP20100160619	20100421
IL205121 A0	20101230	IL20100205121	20100415
IN01267MU2010 A	20120810	IN2010MU01267	20100419
US2010268390 AA	20101021	US20090427051	20090421
US8224494 BB	20120717	US20090427051	20090421
US8437879 BB	20130507	US20090427051	20090421

Priority:

US20090427051 20090421

Probable Assignee: DEERE AND CO

Assignee(s): (std): ANDERSON NOEL WAYNE ; DEERE AND CO

Assignee(s): DEERE AND COMPANY

Inventor(s): (std): ANDERSON NOEL WAYNE ; WAYNE ANDERSON NOEL

Inventor(s): NOEL WAYNE ANDERSON

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MUENCH CHRISTIAN; DUKE W YEE; YEE AND ASSOCIATES PC; JEREMY J; YEE AND ASSOCIATES P C

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PLUG-IN ELECTRIC VEHICLE SUPPLY EQUIPMENT

Abstract: A system for connecting an electric vehicle to a high voltage power source. The system including an electric vehicle supply equipment (EVSE) having an electrical plug compatible with a high voltage power outlet, the plug connected to a power cord. The power cord is connected to a housing containing a number of electrical components configured to control the power flow to an electric vehicle to recharge the vehicle's batteries. The power cord extends from the housing and is connected to a standard electric vehicle connector compatible with battery electric vehicles (BEV) and plug-in hybrid electric vehicles (PHEV). The EVSE further includes safety measures, such as a relay that controls the flow of power to the vehicle connector and a ground fault interrupter, to protect users from high voltage electric shocks.

Classifications:

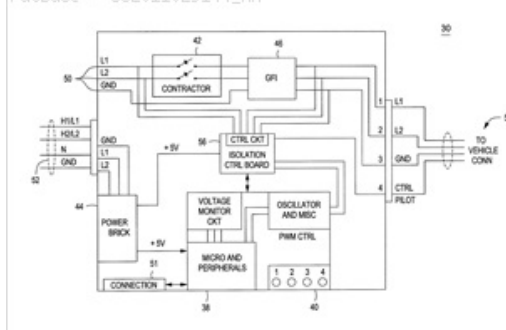
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European: B60L11/18L4 B60L11/18L4A B60L11/18L7 B60L11/18L7J12 B60L11/18L7J2 B60L11/18L7J8 B60L3/00F12 B60L3/04 B60L8/00B B60L8/00D H01R24/84 H02J7/00C6 H02J7/02B L60L230/16 L60L230/22 L60L230/24 L60L240/34 L60L240/62B L60L250/16 L60L250/18 Y02T10/62F12 Y02T10/70B Y02T10/70H6 Y02T10/70J2B Y02T10/70J4 Y02T90/12B Y02T90/12L Y02T90/14 Y02T90/16 Y02T90/16B2 Y02T90/16D Y02T90/16F4 Y04S30/14

US: 1/1 180/65.1 320/107 320/109 320/109S 320/137 320/160 700/293 700/293P 700/295 700/295S 700/297 700/297P 700/298 700/298S 903/903 903/903S

PatBase - US2011029144_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN103959590 A	20140730	CN201180068198	20111221
CN103959590 B	20170301	CN201180068198	20111221
DE602010043394 D1	20170817	DE201060043394T	20100728
EP2281711 A2	20110209	EP20100171122	20100728
EP2281711 A3	20140430	EP20100171122	20100728
EP2281711 B1	20170705	EP20100171122	20100728
EP2656167 A2	20131030	EP20110851425	20111221
EP3241703 A2	20171108	EP20170173126	20100728
EP3241703 A3	20171115	EP20170173126	20100728
US2011029144 AA	20110203	US20090646276	20091223
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Priority:

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Probable Assignee: SPX CORP

Assignee(s): (std): BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC ; MILLER GARRET ; SPX CORP ; MULLER MICHAEL ; MILLER GARRETT ; BOSCH AUTOMOTIVE SERVICE SOLUTIONS INC ; SERVICE SOLUTIONS US LLC ; SERVICE SOLUTIONS U S LLC ; YANKITIS CHARLES K

Assignee(s): BOSCH AUTOMOTIVE SERVICE SOLUTIONS INC WARREN ; SPX A DELAWARE CORP CORP ; SPX (A DELAWARE CORPORATION) CORP ; SPX A DELAWARE CORPORATION CORP

Inventor(s): (std): YANKITIS CHARLES K ; SCHUPING MATTHEW C ; MULLER MICHAEL ; MILLER GARRET ; FUTKOS DAVID P ; MILLER GARRETT

Inventor(s): MULLER MICHAEL HARPER WOODS ; YANKITIS CHARLES K NEW BALTIMORE ; MILLER GARRET OWATONNA

Agent(s): EISENFUEHR SPEISER PATENTANWALTE RECHTSANWALTE PARTGMBB; FLUTTER PAULA; NGUYEN VAN YEN CHRISTIAN; EIP; BAKER AND HOSTETLER LLP; LARSON P ALAN ET AL; NGUYEN PHONG D 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 NZ OM PA 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: DYNAMICALLY TRIGGERED APPLICATION CONFIGURATION

Abstract: Dynamically triggered application configuration may be provided. An application trigger may be created and associated with a work area. A characteristic may be associated with a work implement. The work implement may be determined to be located in the work area and, if the characteristic of the work implement satisfies a condition associated with the application trigger, an application configuration may be transmitted to the work implement.

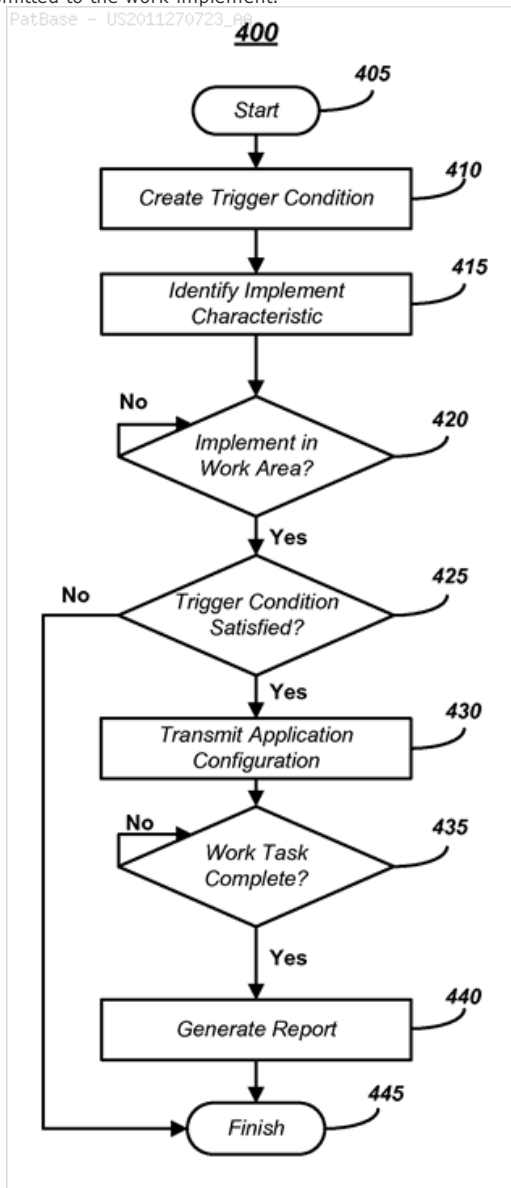
Classifications:

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European: G06Q10/06 G06Q10/087 G06Q10/08E G06Q30/04 G06Q50/02 G06Q50/06

US: 701/50 701/50S 702/187 702/187S 702/23 702/23S 705/34 705/34P 705/412 705/412P 718/100 718/100S

**Family:**

Publication number	Publication date	Application number	Application date
EP2564370 A1	20130306	EP20110720913	20110428
US2011270723 AA	20111103	US20100915792	20101029
US2011270724 AA	20111103	US20100915803	20101029
US2011270783 AA	20111103	US20100915777	20101029
WO11137251 A1	20111103	WO2011US34349	20110428

Priority:

US20100330002P 20100430	US20100330015P 20100430	US20100330026P 20100430
US20100915777 20101029	US20100915792 20101029	US20100915803 20101029
WO2011US34349 20110428		

Probable Assignee: AGCO

Assignee(s): (std): AGCO CORP ; O NEIL CHRISTOPHER ; WAGGONER ROBERT

Assignee(s): AGCO

Inventor(s): (std): O NEIL CHRISTOPHER ; O NEIL CHRISTOPHER BURTON ; WAGGONER ROBERT ; WAGGONER ROBERT J

Inventor(s): O'NEIL CHRISTOPHER BURTON

Agent(s): AGCO Intellectual Property Department; LAFFERTY WILLIAM BROOKOVER 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 RO RS RU 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: AUTOMATIC DETECTION OF MACHINE STATUS FOR FLEET MANAGEMENT

Abstract: An automatic machine status detection system uses apparatus data from one or more sensors or machine components to determine a status for an agricultural machine. An automatic data unit onboard a machine can receive apparatus data and communicate it to a central management system. In an exemplary embodiment, a status determination module can receive the apparatus data, use the to make one or more state determinations, and based on the results of those determinations, determine an activity status for a machine. Engine state, motion state, heading state, implement state and PTO state can be used to determine that a machine has a status identified as Off, Idle, Traveling, Turning or Working. Machine status information can be provided to a user to improve operations efficiency and facilitate billing and administrative services.

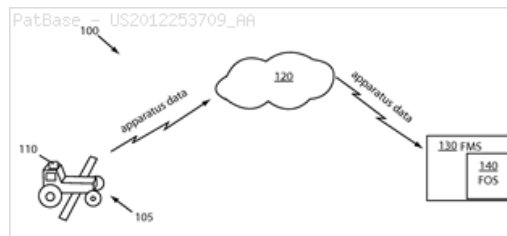
Classifications:

International (IPC 8-9): G01D21/00 G01D7/02 G06F11/30
G06F15/00 G06F17/40 G06F19/00 G06Q99/00 G07C5/00 G07C5/08
G08G1/123 (Advanced/Invention)

CPC: G06Q10/06 G08G1/20 G07C5/008 G01D7/02 G01D21/00
G06F11/3065 G06F17/40 G06F19/00 G06Q99/00 G07C5/085

European: G07C5/00T G07C5/08R2 G08G1/20

US: 1/1 702/182 702/188 702/60

**Family:**

Publication number	Publication date	Application number	Application date
US2012253709 AA	20121004	US20110341500	20111230
US2012253743 AA	20121004	US20110341450	20111230
US2012253744 AA	20121004	US20110341475	20111230
US9269200 BB	20160223	US20110341475	20111230
WO12092588 A1	20120705	WO2011US68174	20111230
WO12092592 A1	20120705	WO2011US68182	20111230
WO12092599 A1	20120705	WO2011US68194	20111230

Priority:

US20100428692P 20101230	US20100428693P 20101230	US20100428695P 20101230
US20110341450 20111230	US20110341475 20111230	US20110341500 20111230

Probable Assignee: AGCO CORP

Assignee(s): (std): AGCO CORP ; RIEGGER LORENZ ; SCHMIDT LEE ; SCHMIDT LEE A

Inventor(s): (std): RIEGGER LORENZ ; SCHMIDT LEE ; SCHMIDT LEE A

Agent(s): LAFFERTY WM BROOK ET AL; LAFFERTY BROOK WM ET AL

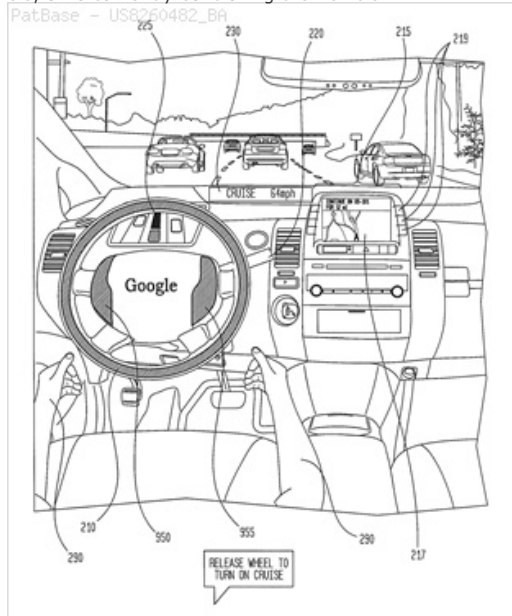
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MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN
ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: USER INTERFACE FOR DISPLAYING INTERNAL STATE OF AUTONOMOUS DRIVING SYSTEM

Abstract: A passenger in an automated vehicle may relinquish control of the vehicle to a control computer when the control computer has determined that it may maneuver the vehicle safely to a destination. The passenger may relinquish or regain control of the vehicle by applying different degrees of pressure, for example, on a steering wheel of the vehicle. The control computer may convey status information to a passenger in a variety of ways including by illuminating elements of the vehicle. The color and location of the illumination may indicate the status of the control computer, for example, whether the control computer has been armed, is ready to take control of the vehicle, or is currently controlling the vehicle.

Classifications:

International (IPC 8-9): B60W10/04 B60W10/18 B60W10/20 B60W10/30 B60W50/10 B60W50/14 B62D6/00 G01C21/36 G01S19/10 G05D1/00 G05D1/02 G06F3/0484 G06T11/00 G06T11/20 (Advanced/Invention)
CPC: B60K35/00 B60K2350/1076 B60W30/16 B60W2550/14 B60W2550/30 G05D1/0061 B62D1/286 B62D15/025 B60W30/12 B60W2050/146 B60W2550/402 B60W10/04 B60W10/18 B60W10/20 B60W10/30 B60W50/10 G01S19/10 G06F3/04842 G06F3/04847 G05D2201/0213 G06T11/20 G01C21/367 G01C21/3676 G06T11/001 G06T2207/30252 B60W50/14
European: B62D1/28D B62D15/02F G05D1/00D2 S05D201/0213
US: 1/1 382/106 701/23 701/25 701/28 701/301 701/36 701/41 701/410



Family:

Publication number	Publication date	Application number	Application date
US8260482 BA	20120904	US20100832447	20100708
US8346426 BA	20130101	US20100769252	20100428
US8352110 BA	20130108	US20120567428	20120806
US8433470 BA	20130430	US20120707937	20121207
US8670891 BA	20140311	US20130788552	20130307
US8706342 BA	20140422	US20120682920	20121121
US8738213 BA	20140527	US20130781173	20130228
US8818610 BA	20140826	US20130781113	20130228
US8825261 BA	20140902	US20140158986	20140120
US9132840 BA	20150915	US20140333804	20140717
US9134729 BA	20150915	US20140445493	20140729
US9519287 BA	20161213	US20150820961	20150807
US9582907 BA	20170228	US20150820947	20150807

Priority:

US20100769252 20100428	US20100832447 20100708	US20120567428 20120806
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US20150820947 20150807		

Probable Assignee: GOOGLE INC

Assignee(s): (std): NEMEC PHILIP ; PRADA GOMEZ LUIS RICARDO ; SZYBALSKI ANDREW ; URMSON CHRISTOPHER ; THRUN SEBASTIAN ; URMSON CHRISTOPHER PAUL ; GOOGLE INC

Assignee(s): GOOGLE LLC ; WAYMO HOLDING INC ; WAYMO LLC

Inventor(s): (std): GOMEZ LUIS RICARDO PRADA ; SZYBALSKI ANDREW TIMOTHY ; URMSON CHRISTOPHER PAUL ; URMSON CHRISTOPHER ; THRUN SEBASTIAN ; SZYBALSKI ANDREW ; PRADA GOMEZ LUIS RICARDO ; NEMEC PHILIP

Agent(s): LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

Title: AGRICULTURAL WORK SUPPORT METHOD AND APPARATUS

Abstract: An agricultural work support method is disclosed. In the agricultural work support method, an advent of an evaluation time of a performed agricultural work task is detected based on a performance time and a calculation method of the evaluation time of an achievement of the agricultural work task, in which a work history storage part stores the performance time for each of multiple agricultural work tasks, and a calculation method storage part stores the performance time as a reference in the calculation method. Then, an instruction of an evaluation work of the achievement pertinent to the agricultural work task, in which the advent of the evaluation time is detected, is output.

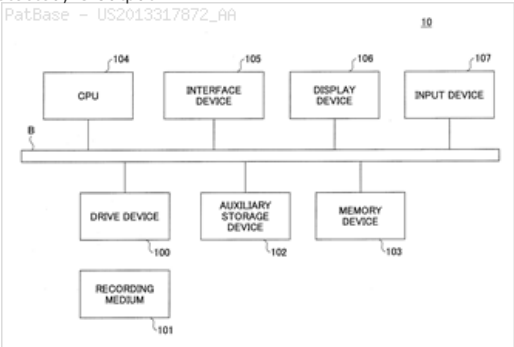
Classifications:

International (IPC 8-9): G06Q10/06 G06Q50/00

G06Q50/02 (Advanced/Invention)

CPC: G06Q50/02 G06Q10/063114

US: 705/7.15



Family:

Publication number	Publication date	Application number	Application date
CN103380439 A	20131030	CN201180068058	20110310
CN103380439 B	20170912	CN201180068058	20110310
JP2012120689 A1	20140707	JP20130503309T	20110310
JP5582245 B1	20140903	JP20130503309T	20110310
US2013317872 AA	20131128	US20130960506	20130806
WO12120689 A1	20120913	WO2011JP55709	20110310

Priority:

WO2011JP55709 20110310 US20130960506 20130806

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD ; FUJITSUI LTD ; NAKAMICHI KOJI

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): NAKAMICHI KOJI

Agent(s): ITOH TADAHIKO; ITOH TADASHIGE

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 RO RS RU 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: SMART PHONE CONTROL AND NOTIFICATION FOR AN ELECTRIC VEHICLE CHARGING STATION

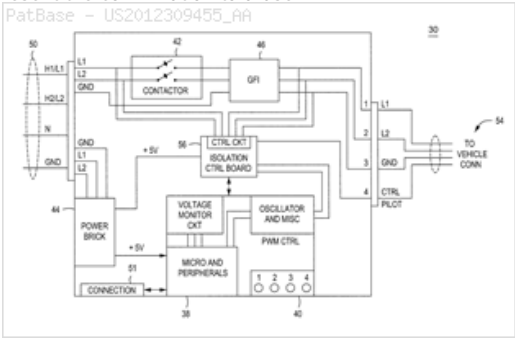
Abstract: A system and method for remote control of and notification by an electric vehicle supply equipment (EVSE). The system including a remote device, such as a smart phone, having a software configured to remotely control the EVSE and remotely retrieve and receive information from the EVSE. The smart phone may identify and connect to a communication network, automatically identify the EVSE, connect to the EVSE, and send the EVSE instructions for various functions of the EVSE, including charging, vehicle control, and reporting functions. The EVSE may execute the instructions received and return a confirmation to the remote device. The remote device may present the confirmation to a user.

Classifications:

International (IPC 8-9): B60L11/00 B60L11/18 B60L9/00 B60Q1/00 H04W4/00 (Advanced/Invention)

CPC: B60L11/1824 Y02T90/121 B60L11/1838 B60L11/1846 B60L2230/40 Y02T10/7005 Y02T10/7088 Y02T90/128 Y02T90/14 Y02T90/16 Y02T90/163 Y02T90/168 Y02T90/169 Y04S30/12 Y04S30/14 B60L2230/16 B60L2240/72 Y02T10/7291

US: 320/109 340/425.5 340/439 340/455 455/557



Family:

Publication number	Publication date	Application number	Application date
CN103930297 A	20140716	CN201280037543	20120601
CN103930297 B	20160706	CN201280037543	20120601
CN105922883 A	20160907	CN201610327301	20120601
EP2714458 A1	20140409	EP20120793766	20120601
EP2714458 A4	20160309	EP20120793766	20120601
US2012309455 AA	20121206	US20110152813	20110603
US2014159660 AA	20140612	US20140149414	20140107
US8624719 BB	20140107	US20110152813	20110603
US9024744 BB	20150505	US20140149414	20140107
WO12167082 A1	20121206	WO2012US40462	20120601

Priority:

US20110152813 20110603 CN201280037543 20120601 WO2012US40462 20120601
US20140149414 20140107

Probable Assignee: BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC

Assignee(s): (std): BOSCH AUTOMOTIVE SERVICE SOLUTIONS INC ; BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC ; KLOSE LEE ROBERT ; SERVICE SOLUTION U S LLC ; WITTLIFF III WILLIAM ; SERVICE SOLUTIONS U S LLC ; SERVICE SOLUTIONS US LLC

Assignee(s): SERVICE SOLUTION US LLC ; SPX CORP

Inventor(s): (std): KLOSE LEE ROBERT ; WITTLIFF III WILLIAM

Agent(s): NGUYEN VAN YEN CHRISTIAN; BAKER AND HOSTETLER LLP; NGUYEN PHONG D 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: TICKET BASED HARVEST MANAGEMENT SYSTEM AND METHOD

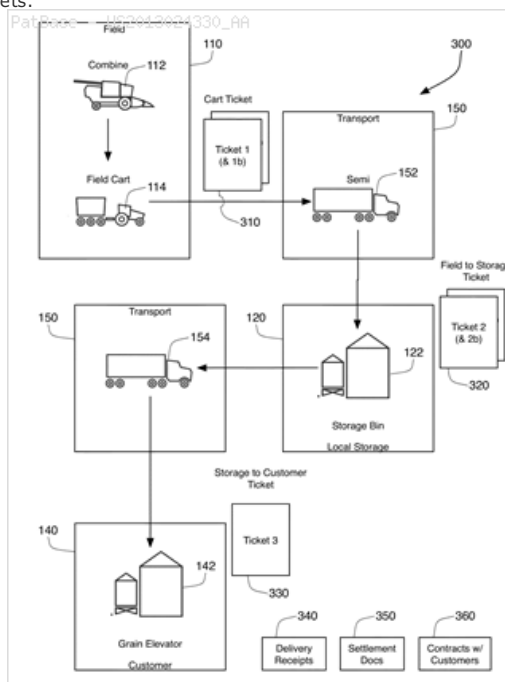
Abstract: A system and method is presented for gathering data concerning harvests. Data tickets are generated when the harvest is received at a point of origination (i.e., the field), local storage, processing, or a customer location. Data tickets can be manually generated using apps running on mobile devices. Users of the mobile devices input the data tickets when harvest is received at these locations. Data tickets are transmitted to a remote server over a wide area network. Analysis of the data tickets is possible through a web interface to the remote server. Beacons that identify various equipment or locations can be used to trigger the automatic generation of data tickets.

Classifications:

International (IPC 8-9): G01C21/00 G01S5/00 G06F13/38
G06Q10/00 G06Q10/06 G06Q10/08 G06Q50/02 G1C21/00
G06Q10/00 (Advanced/Invention)

CPC: G06Q10/063 G06Q10/087 G01S5/0027 G01S5/0072
G06Q10/0875 G06Q10/063114 G06Q50/02 G06Q10/08

US: 701/1 705/28 705/29 705/7.15

**Family:**

Publication number	Publication date	Application number	Application date
AU2014234979 AA	20140925	AU20140234979	20140313
BR112015023749 A2	20170718	BR20151123749	20140313
CA2911502 AA	20151105	CA20142911502	20140313
EP2973254 A1	20160120	EP20140770121	20140313
EP2973254 A4	20161019	EP20140770121	20140313
US2013024330 AA	20130124	US20120551916	20120718
US2013304614 AA	20131114	US20130832661	20130315
US2014122147 AA	20140501	US20130889736	20130508
US2015186838 AA	20150702	US20140559991	20141204
US2017178049 AA	20170622	US20170453934	20170309
US2018144293 AA	20180524	US20180875083	20180119
US9607342 BB	20170328	US20130889736	20130508
US9875457 BB	20180123	US20140559991	20141204
US9881278 BB	20180130	US20130832661	20130315
WO14151398 A1	20140925	WO2014US25649	20140313

Priority:

US20110508819P	20110718	US20120551916	20120718	US20130832661	20130315
US20130889736	20130508	WO2014US25649	20140313	US20140559991	20141204
US20170453934	20170309	US20180875083	20180119		

Probable Assignee: CONSERVIS CORP

Assignee(s): (std): BORMAN MICHAEL ; CHRISTIE PATRICK ; CONSERVIS CORP ; CHRISTIE PATRICK P ; FAISON CHUCK ; LARSON PAUL ; TEVIS JOE ; SHILTS MATTHEW

Inventor(s): (std): BORMAN MICHAEL ; CHRISTIE PATRICK ; CHRISTIE PATRICK P ; FAISON CHUCK ; LARSON PAUL ; JOE TEVIS ; TEVIS JOE ; SHILTS MATTHEW ; PATRICK P CHRISTIE ; MICHAEL BORMAN

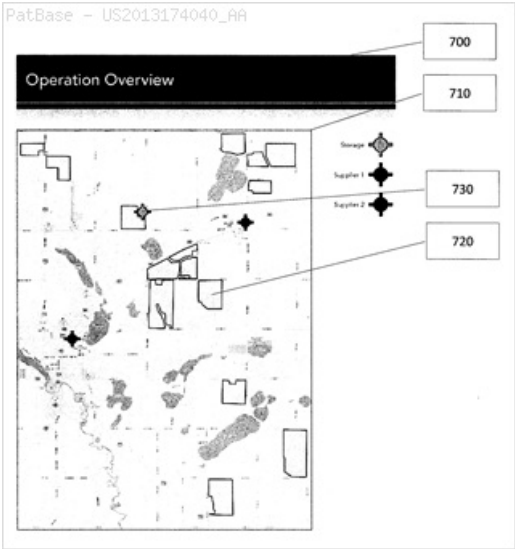
Agent(s): ELLIPTIC LEGAL AND PATENT SERVICES; FASKEN MARTINEAU DUMOULIN LLP; VOSSIUS AND PARTNER
PATENTANWAELE RECHTSANWAELE MBB; BECK TYSVER EVANS PLLC; TYSVER BECK EVANS PLLC;
TYSVER DANIEL A ET AL

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 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

Title: METHODS, APPARATUS AND SYSTEMS FOR GENERATING, UPDATING AND EXECUTING A CROP-PLANTING PLAN

Abstract: Crop-planting plans may be generated with crop-planting information received from a variety of sources, such as a user, remote sensor, database, and/or data feed. The crop-planting plans may dynamically aid farmers and other production agriculture professionals when determining a crop-planting strategy and implementing a crop-planting plan. Crop-planting plans may include a variety of recommended crop-planting practices and projected outcomes for the implementation of the recommended crop-planting practices.

Classifications:
International (IPC 8-9): G06F3/01 (Advanced/Invention)
CPC: G06Q10/06
US: 715/733



Family:

Publication number	Publication date	Application number	Application date
US2013174040 AA	20130704	US20110341753	20111230

Priority:

US20110341753 20111230

Probable Assignee:	SUPERIOR EDGE INC
Assignee(s): (std):	JOHNSON JEROME DALE
Assignee(s):	SUPERIOR EDGE INC
Inventor(s): (std):	JOHNSON JEROME DALE

Title: SYSTEM AND METHOD FOR TRACKING DRIVER HOURS AND TIMEKEEPING

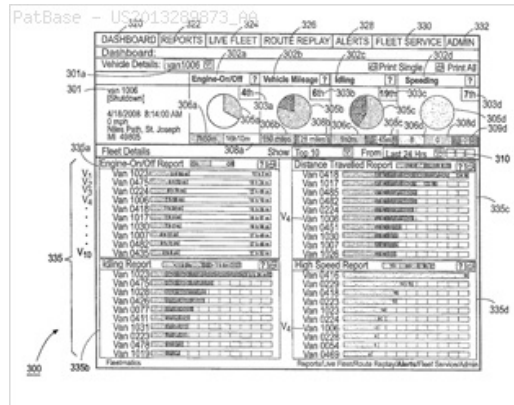
Abstract: A system and method for processing GPS event data and providing an interface for presentation of timekeeping reports and alerts.

Classifications:

International (IPC 8-9): G06F17/00 G06Q10/06 G06Q10/08
G07C5/00 G07C5/02 (Advanced/Invention)

CPC: G06Q10/063114 G06F17/00 G06Q10/06 G06Q10/08
G07C5/008 G07C5/02

US: 701/482 705/7.15



Family:

Publication number	Publication date	Application number	Application date
EP2842086 A1	20150304	EP20130708404	20130307
EP2842108 A1	20150304	EP20130710806	20130307
US2013289873 AA	20131031	US20130837721	20130315
US2014108080 AA	20140417	US20130837422	20130315
WO13159973 A1	20131031	WO2013EP54553	20130307
WO13159974 A1	20131031	WO2013EP54555	20130307

Priority:

US20120639426P 20120427 WO2013EP54555 20130307 WO2013EP54553 20130307
US20130837422 20130315 US20130837721 20130315

Probable Assignee: FLEETMATICS IRELAND LTD

Assignee(s): (std): FLEETMATICS IRL LTD

Assignee(s): VERIZON CONNECT IRELAND LTD ; CITIBANK NA ADMINISTRATIVE AGENT AS ; FLEETMATICS DEVELOPMENT LTD ; FLEETMATICS IRELAND LTD

Inventor(s): (std): MITCHELL PETER

Agent(s): EISENFUEHR SPEISER; EISENFUEHR SPEISER AND PARTNER 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 NZ OM PA 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: MISSION RE-PLANNING FOR COORDINATED MULTIVEHICLE TASK ALLOCATION

Abstract: A system and methods for mission re-planning are presented. Vehicles are monitored in real-time, and an incapacitated vehicle from among the vehicles that performs an incomplete task is detected. A remaining coverage set comprising a remaining coverage area for each of the vehicles is determined. A travel distance from a task completion location of each of the vehicles to a stopped point of the incapacitated vehicle is calculated to provide a travel set. An extra coverage set is determined based on the travel set and the remaining coverage set, and an incomplete coverage area for the incomplete task is calculated. The extra coverage set is compared to the incomplete coverage area and the remaining coverage area to provide a sufficiency list, and an assigned vehicle is selected from the vehicles based on the sufficiency list.

Classifications:

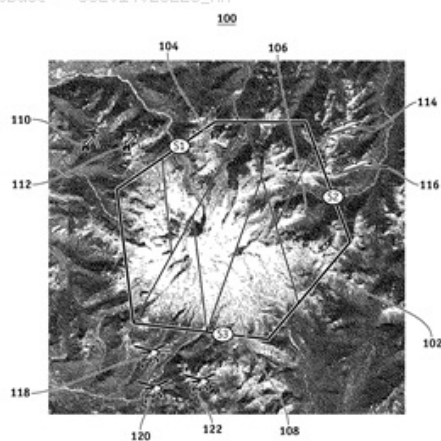
International (IPC 8-9): F41H13/00 G01D1/00 G05D1/00 G05D1/02

G05D1/10 G05D3/12 G06Q10/04 (Advanced/Invention)

CPC: G05D1/104 G05D1/027 G05D1/0088 G06Q10/047

US: 701/2 901/1

PatBase - US2014025228_AA

**FIG. 1****Family:**

Publication number	Publication date	Application number	Application date
CN103576698 A	20140212	CN201310303289	20130718
EP2688016 A1	20140122	EP20130169024	20130523
JP2014059860 A2	20140403	JP20130148182	20130717
US2014025228 AA	20140123	US20120551616	20120718
US9651950 BB	20170516	US20120551616	20120718

Priority:

US20120551616 20120718

Probable Assignee: BOEING CO

Assignee(s): (std): BOEING CO ; CHEN CAISHUN ; JANG JUNG SOON ; LIM MENG HIOT ; VIAN JOHN L ; VAVRINA MATTHEW A

Assignee(s): NANYANG TECHNOLOGICAL UNIV

Inventor(s): (std): CAISHUN CHEN ; CHEN CAISHUN ; JANG JUNG SOON ; JOHN L VIAN ; JUNG SOON JANG ; LIM MENG HIOT ; MATTHEW A VAVRINA ; MENG HIOT LIM ; VAVRINA MATTHEW A ; VIAN JOHN L

Inventor(s): JOHN LVIAN

Agent(s): SHIPP NICHOLAS; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: SYSTEMS, METHODS AND APPARATUS FOR MULTI-ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING

Abstract: Systems, methods and apparatus are provided for monitoring and controlling an agricultural implement, including seed planting implements. Systems, methods and apparatus are provided for detecting seeds being conveyed by seed conveyor. Systems, methods and apparatus are provided for monitoring and controlling deposition of secondary crop inputs such as fertilizer and insecticide.

Classifications:

International (IPC 8-9): A01B49/06 A01C A01C19/02 A01C21/00

A01C7/00 A01C7/04 A01C7/06 A01C7/10 A01C7/12 A01C7/16

A01C7/18 A01C7/20 A01M9/00 G01V8/10 G01V8/20

G06M7/02 (Advanced/Invention);

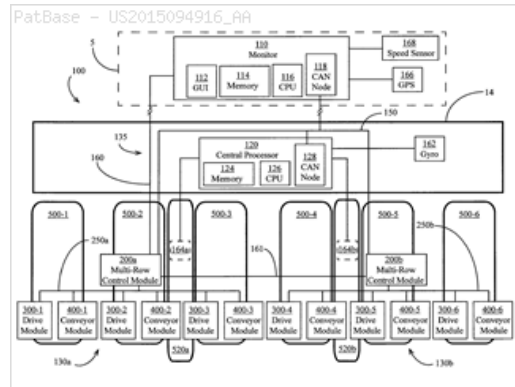
A01C5/06 (Advanced/Non-invention)

CPC: A01M9/0092 A01B49/06 A01C21/002 A01C7/06 A01C7/16

A01C21/00 A01C7/105 A01C21/005 A01C7/128 A01C19/02

G01V8/20 A01C5/064 A01C5/068 A01C7/203 A01C7/102 A01C7/20

US: 1/1 111/171 701/50



Family:

Publication number	Publication date	Application number	Application date
AR092357 AA	20150415	AR2013P102663	20130725
AU2013295763 AA	20140130	AU20130295763	20130725
AU2013295763 BB	20171012	AU20130295763	20130725
AU2018200214 AA	20180201	AU20180200214	20180110
BR112015001540 A2	20170704	BR20151101540	20130725
CA2879731 AA	20150121	CA20132879731	20130725
DE602013021821 D1	20170713	DE201360021821T	20130725
EP2876993 A1	20150603	EP20130823843	20130725
EP2876993 A4	20160323	EP20130823843	20130725
EP2876993 B1	20170531	EP20130823843	20130725
EP3259972 A1	20171227	EP20170173466	20130725
ES2629517 T3	20170810	ES20130823843T	20130725
HU032580 T2	20170928	HU20130823843T	20130725
LT2876993 T	20171110	LT20130823843T	20130725
UA113660 C2	20170227	UA20150001624	20130725
US2015094916 AA	20150402	US20140562400	20141205
US2015201549 AA	20150723	US20130417146	20130725
US2016249525 AA	20160901	US20160150403	20160509
US2018139893 AA	20180524	US20180877357	20180122
US9332689 BB	20160510	US20130417146	20130725
US9872424 BB	20180123	US20160150403	20160509
US9999175 BB	20180619	US20140562400	20141205
WO14018717 A1	20140130	WO2013US51971	20130725
ZA201500484 A	20160428	ZA20150000484	20150122

Priority:

US20120675714P 20120725	AU20130295763 20130725	US20130417146 20130725
EP20130823843 20130725	WO2013US51971 20130725	US20140562400 20141205
US20150417146 20150124	US20160150403 20160509	AU20180200214 20180110
US20180877357 20180122		

Probable Assignee: PRECISION PLANTING LLC

Assignee(s): (std): PREC PLANTING LLC

Assignee(s): PRECISION PLANTING LLC ; SAUDER DEREK ; SAUDER TIM ; STOLLER JASON ; PRECISION PLANTING LLC TREMONT ; BAURER PHIL ; HODEL JEREMY

Inventor(s): (std): BAUERER PHIL ; BAURER PHIL ; DEREK SAUDER ; HODEL JEREMY ; JASON STOLLER ; JEREMY HODEL ; PHIL BAURER ; SAUDER DECEASED DEREK ; SAUDER DEREK ; SAUDER DOUG ; SAUDER TIM ; SAUDER TIMOTHY ; STOLLER JASON ; TIM SAUDER

Inventor(s): STOLLER JASON MORTON ; SAUDER TIM TREMONT ; SAUDER DEREK TREMONT ; HODEL JEREMY MORTON ; BAURER PHIL TREMONT

Agent(s): SPRUSON AND FERGUSON; MACPHERSON LESLIE AND TYERMAN LLP; DEHMEI AND BETTENHAUSEN PATENTANWALTE PARTMBB; WIGHTMAN DAVID ALEXANDER; LAWRENCE JOHN; PEARCE DAVID HENRY; ELZABURU SLP ELZABURU SLP; THOMAS J; LARKIN HOFFMAN DALY AND LINDGREN LTD; OPPOLD THOMAS J

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 NZ OM PA 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: SYSTEM AND METHOD FOR AUTOMATIC ALLOCATION OF MOBILE RESOURCES TO TASKS

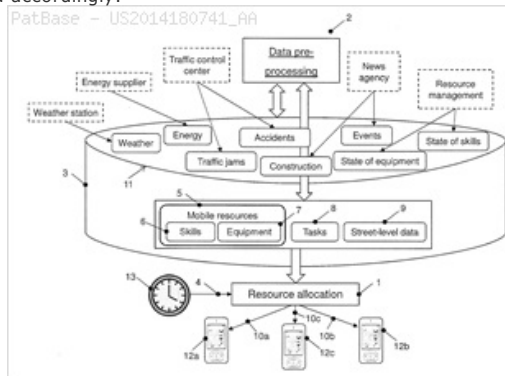
Abstract: A system for automatic allocation of mobile resources to tasks includes at least one database which stores for each mobile resource at least one corresponding skill and equipment as well as street-level data defining roads between a current location of the mobile resources and the distant locations of the tasks, and dynamic data which have a potential impact on performance of the tasks. A first data processing unit allocates the mobile resources to the tasks by allocating the skills to the tasks and the equipment, and generates for at least one of the mobile resources an individual schedule including a street-by-street route along the roads to the respectively allocated tasks. A second data processing unit continuously pre-processes the dynamic data to determine which of the street-level data, the mobile resources and the tasks are affected by the dynamic data and to what extent, and to amend the affected data accordingly.

Classifications:

International (IPC 8-9): G06Q10/00 G06Q10/06 (Advanced/Invention)

CPC: G06Q10/06315 G06Q10/06 G06Q10/063112

US: 705/7.14



Family:

Publication number	Publication date	Application number	Application date
CN103886403 A	20140625	CN201310703016	20131219
DE602012040028 D1	20171228	DE201260040028T	20121220
EP2747000 A1	20140625	EP20120198470	20121220
EP2747000 B1	20171122	EP20120198470	20121220
IN01432KO2013 A	20140627	IN2013KO01432	20131219
US2014180741 AA	20140626	US20130136454	20131220

Priority:

EP20120198470 20121220

Probable Assignee: ABB SCHWEIZ AG

Assignee(s): (std): ABB SCHWEIZ AG ; ABB TECHNOLOGY AG

Inventor(s): (std): FRANKE CARSTEN ; HARJUNKOSKI IIRO ; SALIBA SLEMAN ; SLEMAN SELIBA ; IIRO HARJUNKOSKI ; CARSTEN FRANKE

Inventor(s): SLEMAN SALIBA ; IIRO HARJUNKOSKI

Agent(s): MUELLER ANDREAS DIPL PHYS DR RER NAT; KOCK INA; MARKS FRANK

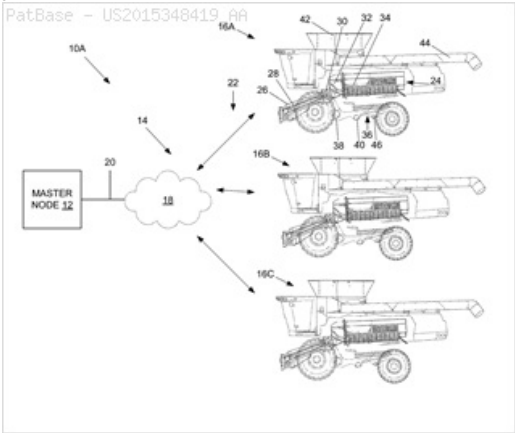
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: METHOD OF ASSIGNING PLANNED PATHS TO MULTIPLE MACHINES TO COOPERATIVELY COVER AREA

Abstract: A method includes providing proximally in time over a wireless medium a first plurality of different just-in-time wayline segments for a given field to a plurality of agricultural machines, respectively, at least one of the different just-in-time wayline segments separated from another of the different just-in-time wayline segments by a length greater than one of the plurality of agricultural machines. Status updates are received from the plurality of agricultural machines and responsive to the status updates, a second plurality of different just-in-time wayline segments for the field to at least a portion of the plurality of agricultural machines are provided over the wireless medium.

Classifications:

International (IPC 8-9): A01B69/00 G01C21/00 G01S13/60
G08G1/00 (Advanced/Invention)
CPC: G08G1/20 G01C21/00 A01B69/00 A01B79/02 G05D1/0297
G05D2201/0201
US: 701/117



Family:

Publication number	Publication date	Application number	Application date
US2015348419 AA	20151203	US20130654921	20131226
WO14105930 A1	20140703	WO2013US77763	20131226

Priority:

US20120746689P 20121228 US20130654921 20131226 WO2013US77763 20131226

Probable Assignee: AGCO CORP

Assignee(s): (std): AGCO CORP ; MATTHEWS PAUL

Inventor(s): (std): MATTHEWS PAUL ; MATTHEWS PAUL ROSS

Agent(s): ELLSWORTH JEFF

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

Title: AERIAL FARM ROBOT SYSTEM FOR CROP DUSTING, PLANTING, FERTILIZING AND OTHER FIELD JOBS

Abstract: Modern farming is currently being done by powerful ground equipment or aircraft that weigh several tons and treat uniformly tens of hectares per hour. Automated farming can use small, agile, lightweight, energy-efficient automated robotic equipment that flies to do the same job, even able to farm on a plant-by-plant basis, allowing for new ways of farming. Automated farming uses unmanned aerial vehicles (UAVs) that are equipped with detachable implements and reservoirs and that we call "aerial farm robots." Automated farming uses high-precision GPS and other precision positioning and vision technology to autonomously and precisely perform crop dusting, planting, fertilizing and other field related farming or husbandry tasks. The subsystems for the control, refill, recharge and communication subsystems of the aerial farm robots are part of the overall automated farming system, and can autonomously handle most of the husbandry tasks on a farm.

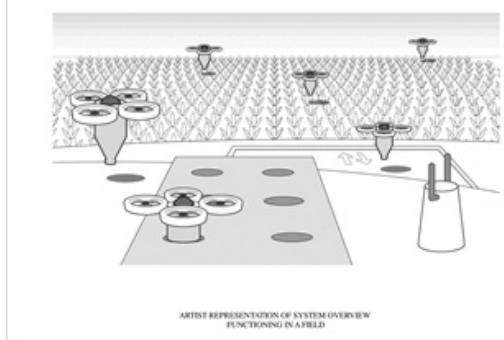
Classifications:

International (IPC 8-9): A01B79/00 A01B79/02 A01C21/00 A01C7/00 A01C7/04 A01M9/00 B64B1/40 B64C39/02 B64D1/16 B64D1/18 G05D1/00 G05D1/10 G08G5/00 G08G5/04 (Advanced/Invention)

CPC: G08G5/0043 B64B1/40 G08G5/04 B64B2201/00 B64C2201/022 B64C2201/042 B64C2201/101 B64C2201/108 B64C2201/126 B64C2201/146 B64C2201/141 A01B79/005 A01C21/00 B64C39/024 B64D1/16 B64C2201/027 B64C2201/12 B64C2201/145 B64D1/00 A01B79/02 Y10S901/01 A01C7/04 G05D1/104

US: 1/1 701/3 901/1

PatBase - US2014303814_AA



Family:

Publication number	Publication date	Application number	Application date
EP2978665 A1	20160203	EP20140776144	20140320
EP2978665 A4	20170426	EP20140776144	20140320
US2014303814 AA	20141009	US20140220990	20140320
US2016307448 AA	20161020	US20160193033	20160625
US9382003 BB	20160705	US20140220990	20140320
US9852644 BB	20171226	US20160193033	20160625
WO14160589 A1	20141002	WO2014US31359	20140320

Priority:

US20130804685P 20130324 US20140220990 20140320 WO2014US31359 20140320
US20160193033 20160625

Probable Assignee: BEE ROBOTICS CORP

Assignee(s): (std): BEE ROBOTICS CORP

Inventor(s): (std): SALNIKOV VLADIMIR ; FILIN ANATOLY ; BUREMA HARM

Agent(s): WITTMANN GUENTHER; PATENT STRATEGIES; EDWARD; DURNEY EDWARD

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

Title: CONTROL ARCHITECTURE FOR MULTI-ROBOT SYSTEM

Abstract: A multiple robot control architecture including a plurality of robotic agricultural machines including a first and second robotic agricultural machine. Each robotic agricultural machine including at least one controller configured to implement a plurality of finite state machines within an individual robot control architecture (IRCA) and a global information module (GIM) communicatively coupled to the IRCA. The GIMs of the first and second robotic agricultural machines being configured to cooperate to cause said first robotic agricultural machine and said second agricultural machine to perform at least one agricultural task.

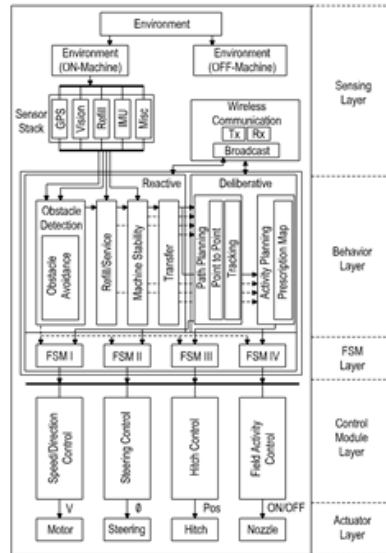
Classifications:

International (IPC 8-9): B25J9/16 G05B19/402 G05B19/418 G05D1/02 (Advanced/Invention)

CPC: B25J9/1679 G05B19/402 G05D1/0295 G05D1/0297 G05D2201/0201

US: 700/248

PatBase - US2014336818_AA

**Family:**

Publication number	Publication date	Application number	Application date
BR112015027632 A2	20170822	BR20151127632	20140509
EP2994803 A1	20160316	EP20140730682	20140509
US2014336818 AA	20141113	US20140274130	20140509
US9527211 BB	20161227	US20140274130	20140509
WO14183042 A1	20141113	WO2014US37509	20140509

Priority:

US20130822102P 20130510 US20140274130 20140509 WO2014US37509 20140509

Probable Assignee: BLUE LEAF IP INC

Assignee(s): (std): CNH IND AMERICA LLC

Assignee(s): CNH INDUSTRIAL AMERICA LLC ; BLUE LEAF IP INC ; CNH AMERICA LLC

Inventor(s): (std): FOSTER CHRISTOPHER A ; LUCK JOE D ; PITLA SANTOSH K ; POSSELIUS JOHN H ; SAMA MICHAEL P ; SHEARER SCOTT A ; ZANDONADI RODRIGO S

Inventor(s): CHRISTOPHER A FOSTER ; SANTOSH K PITLA ; SCOTT SHEARER ; RODRIGO S ZANDONADI ; MICHAEL P SAMA ; JOE D LUCK ; JOHN H POSSELIUS

Agent(s): CNH INDUSTRIAL IP DEPARTMENT; REBBECA L; HENKEL REBECCA 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 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

Title: FARMING DATA COLLECTION AND EXCHANGE SYSTEM

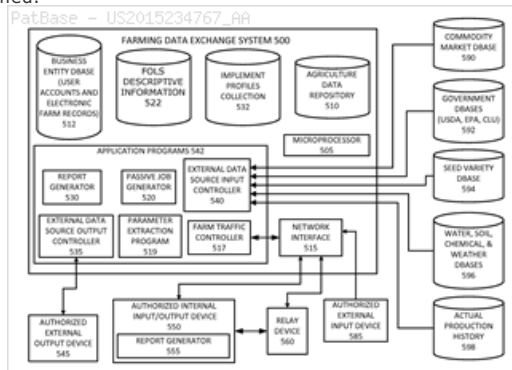
Abstract: Embodiments of the present invention provide a passive relay device for farming vehicles and implements, as well as an online farming data exchange, which together enable capturing, processing and sharing farming operation data generated during combined use of the farming vehicle and farming implement at a farming business. The farming operation data includes detailed information about individual farming operations, including without limitation the type of farming operation, the location of the farming operation, the travel path for the farming operation, as well as operating parameters and operating events occurring while the farming operation is performed.

Classifications:

International (IPC 8-9): G06F13/40 G06F13/42 G06Q10/06
G06Q50/02 H04L29/08 H04W4/02 H04W4/04 (Advanced/Invention);
G06Q50/02 H04L12/40 (Advanced/Non-invention)

CPC: G06F13/4027 H04W4/025 G06Q10/0631 G06F13/4282
H04L2012/40215 G06Q50/02 H04L67/12 H04W4/04 G06Q10/06
H04L67/18 H04W4/02

US: 705/7.12 710/306

**Family:**

Publication number	Publication date	Application number	Application date
BR112015008318 A2	20170704	BR20151108318	20140922
CA2888742 AA	20150417	CA20142888742	20140922
CA2888742 C	20150915	CA20142888742	20140922
EP2901400 A1	20150805	EP20140846591	20140922
EP2901400 A4	20151202	EP20140846591	20140922
US2015234767 AA	20150820	US20140434621	20140922
US2017046639 AA	20170216	US20160338152	20161028
US2018129987 AA	20180510	US20170794463	20171026
WO15042540 A1	20150326	WO2014US56818	20140922

Priority:

US20130881320P 20130923	US20130881326P 20130923	US20140434621 20140922
WO2014US56818 20140922	US20150434621 20150409	US20160338152 20161028
US20170794463 20171026		

Probable Assignee: FARMERS EDGE INC

Assignee(s): (std): FARMERS EDGE INC ; FARMOBILE LLC ; TATGE JASON G ; NUSS RANDALL THOMAS ; GERLOCK HEATH GARRET

Assignee(s): SALUS NOVUS INC ; FARMOBILE INC ; CANADIAN IMP BANK OF COMMERCE ; CROP VENTURES INC

Inventor(s): (std): GERLOCK HEATH GARRET ; NUSS RANDALL THOMAS ; OSBORNE RONALD W ; TATGE JASON G ; RANDALL THOMAS NUSS ; JASON G TATGE ; HEATH GARRET GERLOCK

Agent(s): SMART AND BIGGAR; APPLEBYARD LEES; WHITE GRADY L

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

Title: SYSTEMS AND METHODS FOR ALLOCATING TASKS TO A PLURALITY OF ROBOTIC DEVICES

Abstract: Methods and systems for allocating tasks to robotic devices are provided. An example method includes receiving information associated with task logs for a plurality of robotic devices and in a computing system configured to access a processor and memory, determining information associated with a health level for the plurality of robotic devices based on the information associated with the task logs. A health level for a given robotic device may be proportional to a current level of ability to perform a function, which may change over a lifespan of the given robotic device. Information associated with a plurality of tasks to be performed by one or more of the robotic devices may also be determined. The computing system may optimize an allocation of the plurality of tasks such that a high precision task may be allocated to a robotic device having a greater current health level than another robotic device.

Classifications:

International (IPC 8-9): B25J9/00 B25J9/16 G05B19/418

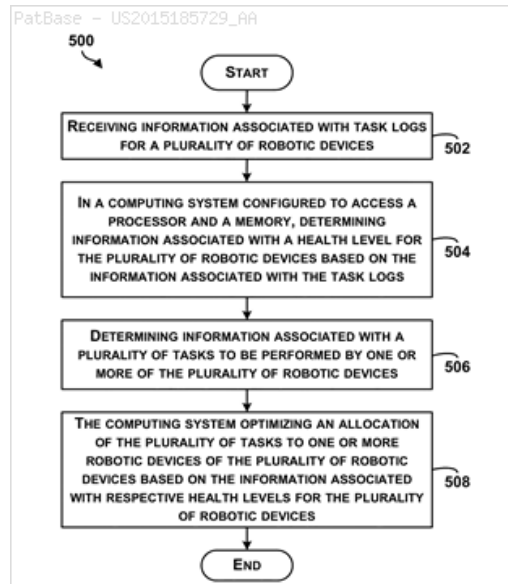
G06Q10/06 (Advanced/Invention)

CPC: Y10S901/01 G05B2219/40095 G05B2219/39117

G05B2219/39146 G06Q10/06 B25J9/0084 B25J9/1679 G05B19/4187

Y02P90/205 Y02P90/86

US: 1/1 700/248 901/1



Family:

Publication number	Publication date	Application number	Application date
US2015185729 AA	20150702	US20150645135	20150311
US2016354923 AA	20161208	US20160244063	20160823
US2018085914 AA	20180329	US20170828487	20171201
US9008839 BA	20150414	US20130757810	20130203
US9446511 BB	20160920	US20150645135	20150311
US9862089 BB	20180109	US20160244063	20160823

Priority:

US20120595872P 20120207 US20130757810 20130203 US20150645135 20150311
 US20160244063 20160823 US20170828487 20171201

Probable Assignee: GOOGLE INC

Assignee(s): (std): GOOGLE INC ; X DEV LLC

Assignee(s): X DEVELOPMENT LLC ; GOOGLE LLC

Inventor(s): (std): HICKMAN RYAN ; KUFFNER JR JAMES J

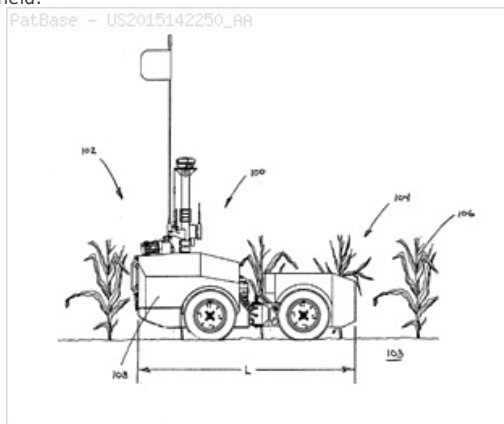
Agent(s): MCDONNELL BOEHNNEN HULBERT AND BERGHOFF LLP

Title: ROBOTIC PLATFORM AND METHOD FOR PERFORMING MULTIPLE FUNCTIONS IN AGRICULTURAL SYSTEMS

Abstract: An autonomous vehicle platform and system for selectively performing an in-season management task in an agricultural field while self-navigating between rows of planted crops, the autonomous vehicle platform having a vehicle base with a width so dimensioned as to be insertable through the space between two rows of planted crops, the vehicle base having an in-season task management structure configured to perform various tasks, including selectively applying fertilizer, mapping growth zones and seeding cover crop within an agricultural field.

Classifications:

International (IPC 8-9): A01B69/00 A01B69/04 A01B79/00
A01C11/00 A01C11/02 A01C15/00 A01C21/00 A01C23/00
A01C23/02 A01C7/00 A01C7/08 B25J5/00 B64C39/02 B64D47/08
G01C21/00 G05D1/00 G05D1/02 (Advanced/Invention)
CPC: A01B69/008 A01B79/005 A01C21/002 G05D1/0088
A01C23/024 A01C7/085 A01C15/00 B25J5/00 G05D1/0011
G05D1/0231 B64C39/024 Y10S901/01 B64C2201/12 B64C2201/141
A01C7/00 B25J5/007 B64D47/08 A01C23/008 B64C2201/127
A01B51/02 A01C7/004 A01C7/06
US: 1/1 111/119 111/170 111/200 701/2 701/23 701/3 901/1



Family:

Publication number	Publication date	Application number	Application date
BR112016011577 A2	20170912	BR20161111577	20141120
CA2930849 AA	20160516	CA20142930849	20141120
EP3071009 A1	20160928	EP20140864043	20141120
EP3071009 A4	20170726	EP20140864043	20141120
US2015142250 AA	20150521	US20140548421	20141120
US2016124433 AA	20160505	US20160994485	20160113
US2017123424 AA	20170504	US20170408847	20170118
US9265187 BB	20160223	US20140548421	20141120
US9582002 BB	20170228	US20160994485	20160113
WO15077452 A1	20150528	WO2014US66610	20141120

Priority:

US20130906543P 20131120 US20130906643P 20131120 US20140548421 20141120
WO2014US66610 20141120 US20160994485 20160113 US20170408847 20170118

Probable Assignee: ROWBOT SYSTEMS LLC

Assignee(s): (std): ROWBOT SYSTEMS LLC

Assignee(s): CAVENDER BARES KENT ; LOFGREN JOSEPH B

Inventor(s): (std): CAVENDER BARES KENT ; JOSEPH B LOFGREN ; KENT CAVENDER BARES ; LOFGREN JOSEPH B

Agent(s): BORDEN LADNER GERVAIS LLP; HARRIS OLIVER JOHN RICHARD; PATTERSON THUENTE PEDERSEN PA; HANSON CHRISTIAN ET AL

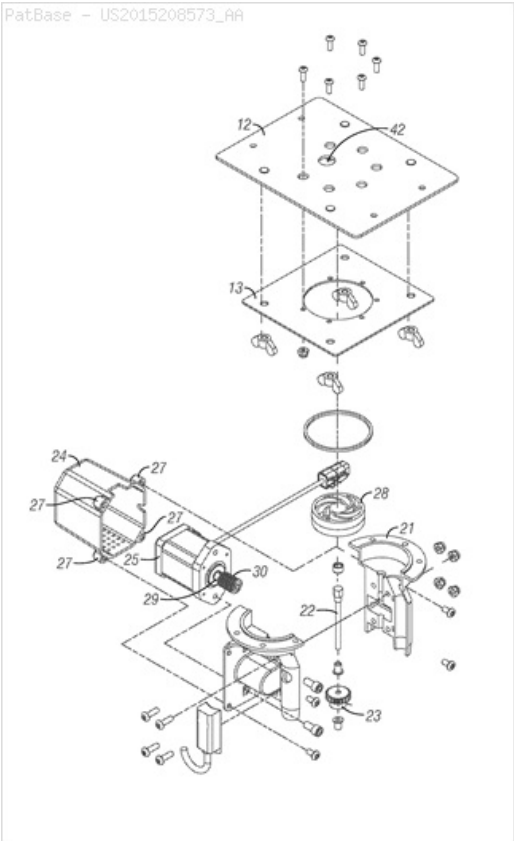
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Title: METER FOR DISPENSING A GRANULAR PRODUCT

Abstract: A chemical granule metering system, for use on a row crop planter, allows for control of chemical granule drop rate. The chemical granule metering system also includes a motor permitting control of chemical granule drop rate by adjusting the rotational speed of the motor. An impeller for a chemical granule meter system having a plurality of apertures is optimized to allow a broad range of chemical granule flow rates, reduce or mitigate clogging, and reduce pulsing characteristics of the metering system.

Classifications:

International (IPC 8-9): A01C15/00 A01C19/02 A01C7/00 A01C7/16
F01D5/14 G01F13/00 (Advanced/Invention)
CPC: A01C7/166 G01F13/001 A01C19/02
US: 222/333



Family:

Publication number	Publication date	Application number	Application date
US2015208573 AA	20150730	US20140164604	20140127
US2017245423 AA	20170831	US20170457230	20170313
US9622401 BB	20170418	US20140164604	20140127

Priority:

US20140164604 20140127 US20170457230 20170313

Probable Assignee: KINZE MFG INC

Assignee(s): (std): KINZE MFG INC

Inventor(s): (std): STEVENSON VAUGHAN

Agent(s): MCKEE VOORHEES AND SEASE PLC

Title: FLEXIBLE MANUFACTURING SYSTEM FOR AIRCRAFT STRUCTURES

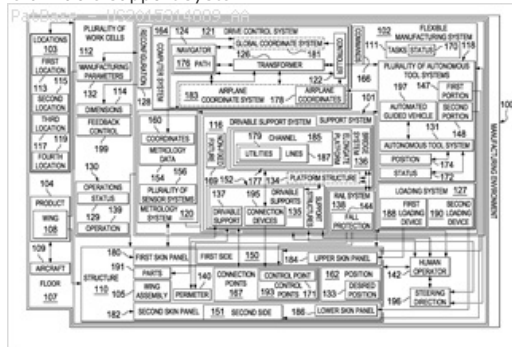
Abstract: A method and apparatus for manufacturing an aircraft structure. A drivable support may be driven from a first location to a second location to bring the drivable support together with at least one other drivable support to form a drivable support system. A structure may be held in a desired position using the drivable support system.

Classifications:

International (ipc 8-9): B23B41/00 B23P21/00 B23Q41/02
B23Q41/06 B64C1/00 B64F5/00 B64F5/10 B66F11/00 B66F5/00
G05B19/418 (Advanced/Invention)

CPC: B23B41/00 B23B2215/04 B64F5/0036 Y10T29/50 Y10T408/03
Y10T408/52 B64F5/10 B23P21/004

US: 269/58 29/559 408/1R 408/69



Family:

Publication number	Publication date	Application number	Application date
BR102015009437 A2	20170912	BR20151009437	20150427
CA2883614 AA	20151030	CA20152883614	20150227
CN105035351 A	20151111	CN201510210496	20150429
EP2939931 A1	20151104	EP20140196553	20141205
JP2016000611 A2	20160107	JP20150082572	20150414
KR20150125571 A	20151109	KR20150051728	20150413
US2015314889 AA	20151105	US20140558867	20141203

Priority:

US20140986824P 20140430 US20140558867 20141203 KR20150051728 20150413

Probable Assignee: BOEING CO

Assignee(s): (std): BOEING CO

Assignee(s): DAY DAN DRESSKELL ; MUNK CLAYTON LYNN ; REID ERIC M ; SCHMITT STEVEN JOHN ; THE BOEING COMPANY

Inventor(s): (std): CLAYTON LYNN MUNK ; DAN DRESSKELL DAY ; DAY DAN DRESSKELL ; ERIC M REID ; MUNK CLAYTON LYNN ; REID ERIC M ; SCHMITT STEVEN JOHN ; STEVEN JOHN SCHMITT

Agent(s): SMART AND BIGGAR; BOULT WADE TENNANT; SONODA AND KOBAYASHI INTELLECTUAL PROPERTY LAW

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: DISTRIBUTED COLLABORATIVE OPERATIONS PROCESSOR SYSTEMS AND METHODS

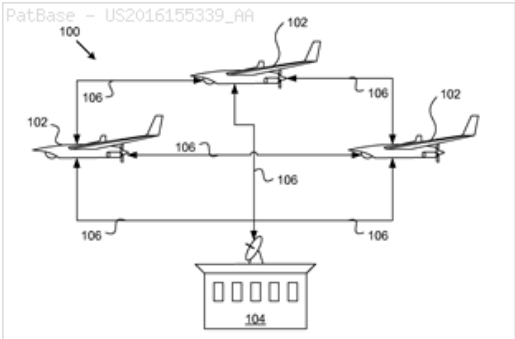
Abstract: Described herein is an apparatus for semi-autonomous vehicle control of a vehicle includes a distributed mission module configured to modify a mission element of a group mission based on availability of data. The group mission involves a plurality of vehicles. The apparatus also includes a guidance module configured to compute a path for a local vehicle of the plurality of vehicles based on the modified mission element. The path is configured to achieve the modified mission element. Additionally, the apparatus includes a multi-protocol translator module configured to convert the path into one or more control commands for the local vehicle. The distributed mission module, guidance module, and multi-protocol translator are located on-board the vehicle.

Classifications:

International (IPC 8-9): G05D1/00 G05D1/02 G05D1/10 G08G5/00 G08G5/04 H04L29/06 H04L29/08 (Advanced/Invention); H04L29/06 (Advanced/Non-invention)

CPC: G08G5/0034 H04L69/08 G08G5/0069 G08G5/045 G05D1/104 G05D1/0287 G05D1/0295 G08G5/0039 H04L67/125 G08G5/0078 G08G5/0082 H04L67/12 H04L69/18

US: 701/23 701/25



Family:

Publication number	Publication date	Application number	Application date
US2016155339 AA	20160602	US20140509948	20141008
US9760094 BB	20170912	US20140509948	20141008

Priority:

US20140509948 20141008

Probable Assignee:

BOEING CO

Assignee(s): (std):

BOEING CO

Inventor(s): (std):

SAAD EMAD W ; VIAN JOHN L

Agent(s):

KUNZLER LAW GROUP PC

Title: MISSION PRIORITIZATION AND WORK ORDER ARRANGEMENT FOR UNMANNED AERIAL VEHICLES AND REMOTELY-PILOTED VEHICLES

Abstract: A framework for combining a weather risk analysis with appropriate operational rules includes a data initialization component, a rules processing component, and one or more weather risk analysis and assessment tools to evaluate a flight condition. The framework applies current, historical, predicted and forecasted weather data to the one or more operational rules governing a mission, a payload, a flight plan, a craft type, and a location of the mission for aircraft such as an unmanned aerial vehicle or remotely-piloted vehicle, and generates advisories based on the evaluation of flight conditions such as a mission compliance status, instructions for operation of unmanned aircraft, and management advisories. The flight condition advisories include either a "fly" advisory or a "no-fly" advisory, and the framework may also provide a mission prioritization and optimization system.

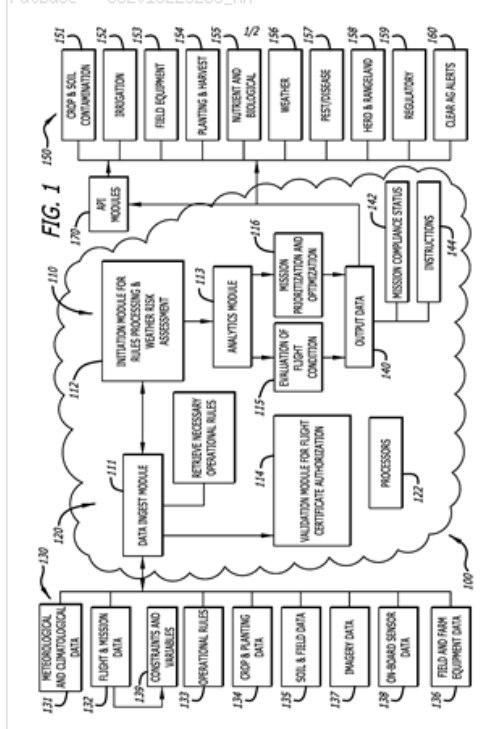
Classifications:

International (IPC 8-9): B64C39/02 G05D1/00 G05D1/02 G05D1/10 G08G5/00 G08G5/02 (Advanced/Invention); G05D1/10 (Advanced/Non-invention)

CPC: B64C39/024 G08G5/0069 B64C2201/141 B64C2201/146 G08G5/0034 G08G5/0039 G08G5/0091 G05D1/0061 G08G5/003 G05D1/00 G05D1/104 G08G5/0013

US: 701/15 701/3

PatBase - US2016225263_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2016225263 AA	20160804	US20160012510	20160201
US2016260331 AA	20160908	US20160012479	20160201
US10043397 BB	20180807	US20160012510	20160201
US10049583 BB	20180814	US20160012479	20160201

Priority:

US20150110580P 20150201 US20160012479 20160201 US20160012510 20160201

Probable Assignee: CLEARAG INC

Assignee(s): (std): CLEAR INC AG ; CLEARAG INC ; ITERIS INC

Inventor(s): (std): MEWES JOHN J ; SALENTINY DUSTIN M

Agent(s): LAZARIS IP

Title: METHODS AND SYSTEMS FOR RECOMMENDING AGRICULTURAL ACTIVITIES

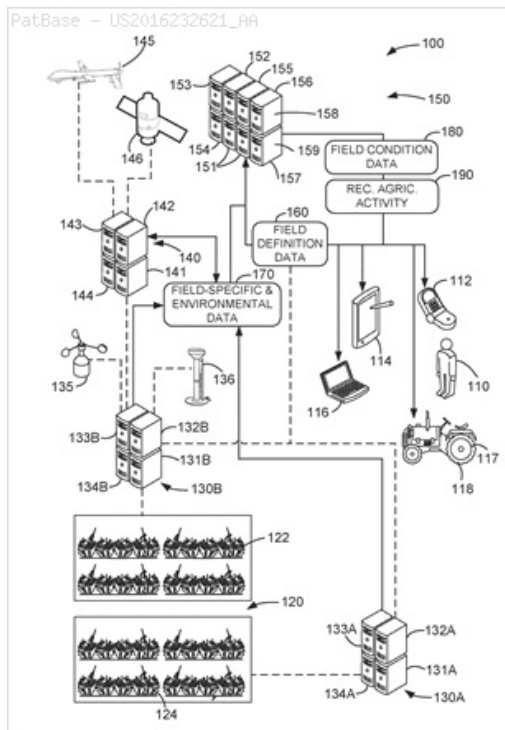
Abstract: A computer-implemented method for recommending agricultural activities is implemented by an agricultural intelligence computer system in communication with a memory. The method includes receiving a plurality of field definition data, retrieving a plurality of input data from a plurality of data networks, determining a field region based on the field definition data, identifying a subset of the plurality of input data associated with the field region, determining a plurality of field condition data based on the subset of the plurality of input data, identifying a plurality of field activity options, determining a recommendation score for each of the plurality of field activity options based at least in part on the plurality of field condition data, and providing a recommended field activity option from the plurality of field activity options based on the plurality of recommendation scores.

Classifications:

International (IPC 8-9): A01B79/00 A01D91/00 G06F19/00
G06K15/00 G06Q10/04 G06Q10/06 G06Q50/02 (Advanced/Invention)

CPC: G06Q10/06315 G06Q10/0637 G06Q10/06 G06Q50/02
G06Q10/04 A01B79/02

US: 705/7.25

**Family:**

Publication number	Publication date	Application number	Application date
AR103641 AA	20170524	AR2016P100351	20160210
US2016232621 AA	20160811	US20160017495	20160205
WO16127094 A1	20160811	WO2016US16838	20160205

Priority:

US20150113229P 20150206 US20160017495 20160205

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Inventor(s): (std): ALDOR NOIMAN SIVAN ; ALEX WIMBUSH ; ANDREJKO ERIK ; BREGA MOOREA ; COCO KRUMME ; CORY MUHLBAUER ; D ORGEVAL TRISTAN ; DOUG SAUDER ; ELI POLLAK ; ERIK ANDREJKO ; ETHINGTON JAMES ; EVIN LEVEY ; JAMES ETHINGTON ; KRUMME COCO ; LEVEY EVIN ; MOOREA BREGA ; MUHLBAUER CORY ; POLLAK ELI ; SAUDER DOUG ; SIVAN ALDOR NOIMAN ; TRISTAN DORGEVAL ; WIMBUSH ALEX

Agent(s): KARLIN ELLIOT H 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 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

Title: ENGINE CONTROL SYSTEM

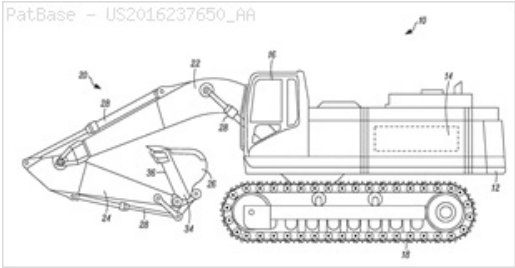
Abstract: An engine control system is provided. The engine control system includes a moisture content sensor associated with an implement of a machine. The moisture content sensor is configured to generate a signal indicative of a moisture content of soil. The engine control system also includes a control module coupled to the moisture content sensor. The control module is configured to receive the signal indicative of the moisture content of the soil. The control module is configured to receive a signal indicative of mass readings associated with the soil. The control module is configured to correlate the moisture content and the mass readings associated with soil based on a type of the soil. The control module is configured to control at least one of a power and a speed setting associated with an engine of the machine based, at least in part, on the correlation.

Classifications:

International (IPC 8-9): E02F9/20 (Advanced/Invention)

CPC: E02F9/2066 E02F3/32 E02F9/265

US: 701/50



Family:

Publication number	Publication date	Application number	Application date
US2016237650 AA	20160818	US20160137624	20160425

Priority:

US20160137624 20160425

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): CATERPILLAR INC

Inventor(s): (std): JENSEN JEFFREY EDWARD ; NAASZ BENJAMIN LEE

Title: CONTROL APPARATUS FOR UTILITY MACHINE

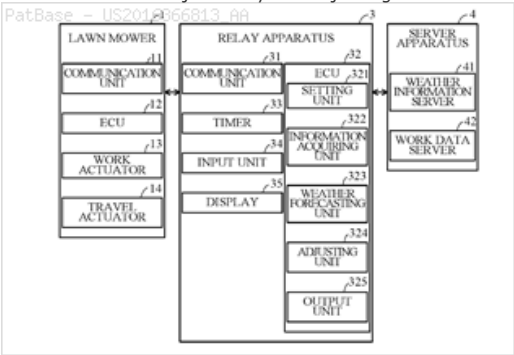
Abstract: A control apparatus for a utility machine configured to automatically work outdoors including a work actuator installed in the utility machine, a setting unit setting a time schedule of the utility machine in advance, an information acquiring unit acquiring current and future weather information for a work site or nearby, an adjusting unit adjusting the time schedule based on the weather information acquired by the information acquiring unit, and an actuator control unit controlling the work actuator so that the utility machine works in accordance with a time schedule adjusted by the adjusting unit.

Classifications:

International (IPC 8-9): A01B69/04 A01D34/00 A01G25/16 G05D1/00 G05D1/02 (Advanced/Invention)

CPC: A01B69/008 G05D1/0088 G05D1/0265 A01G25/16 G05D1/0276 A01D34/008 A01G25/09

US: 701/23



Family:

Publication number	Publication date	Application number	Application date
EP3106013 A1	20161221	EP20160173065	20160606
JP2017010161 A2	20170112	JP20150122959	20150618
US2016366813 AA	20161222	US20160174340	20160606
US9968024 BB	20180515	US20160174340	20160606

Priority:

JP20150122959 20150618

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s): (std): HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

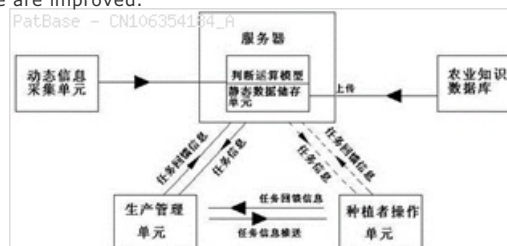
Inventor(s): (std): HANEDA SATOSHI ; KIMATA RYUICHI

Agent(s): WEICKMANN AND WEICKMANN PARTMBB; DUFT BORNSSEN AND FETTIG LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: EFFICIENT INTELLIGENT MANAGEMENT AND CONTROL SYSTEM FOR AGRICULTURAL PRODUCTION

Abstract: The invention relates to the technical field of agriculture and specifically relates to an efficient intelligent management and control system for agricultural production. A dynamic information collection unit is used for collecting natural environmental information, market information, feedback information of a production management unit and task feedback information of a planter operation unit; a static state information storage unit comprises an agricultural knowledge database; and the dynamic information collection unit transmits dynamic data to a server and invokes a judgment operational model on the server and static data in the static state information storage unit according to the dynamic data, the judgment operational model combines the dynamic data with the static data for judgment, the server transmits task information to the production management unit, the production management unit processes the task information and pushes the task information to the planter operation unit, the planter operation unit finishes the task and transmits the task feedback information to the production management unit, and the production management unit processes the task feedback information and transmits the task feedback information to the server. According to the efficient intelligent management and control system, the management efficiency and level of an enterprise are improved.

Classifications:**International (IPC 8-9):** G05D27/02 (Advanced/Invention)**CPC:** G05D27/02**Family:**

Publication number	Publication date	Application number	Application date
CN106354184 A	20170125	CN201610977087	20161108

Priority:

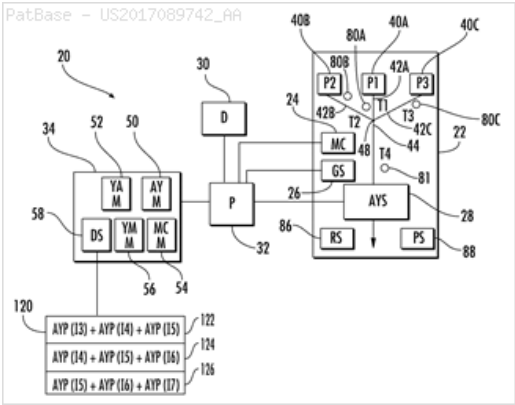
CN201610977087 20161108

Probable Assignee: DALIAN CANYUAN INFORMATION TECH CO LTD**Assignee(s):** (std): DALIAN CANYUAN INFORMATION TECH CO LTD**Assignee(s):** DALIAN CANYUAN INFORMATION TECHNOLOGY CO ; BRIGHT SOURCE OF DALIAN INFORMATION TECHNOLOGY LTD**Inventor(s):** (std): LI WEI

Title: YIELD ESTIMATION

Abstract: A method and apparatus estimate yield. A first signal is received that an aggregate yield measured by an aggregate yield sensor during a measurement interval. A second signal is received that indicates a plurality of geo-referenced regions across which a harvester has traveled prior to the measurement interval. The method and apparatus allocate, to each of at least two geo-referenced regions, an aggregate yield portion allocation based upon different travel times for crops to the aggregate yield sensor Visual-Infrared Vegetative Index data derived from sensing of plants in selected portions of the electromagnetic spectrum at a time other than harvest. The aggregate yield portion allocations are output.

Classifications:
International (IPC 8-9): G01D21/02 (Advanced/Invention)
CPC: A01D41/1273
US: 702/2



Family:

Publication number	Publication date	Application number	Application date
US2017089742 AA	20170330	US20150864449	20150924

Priority:

US20150864449 20150924

Probable Assignee: DEERE AND CO
Assignee(s): (std): DEERE AND CO ; UNIV IOWA STATE RES FOUND INC
Assignee(s): IOWA STATE UNIV RESEARCH FOUNDATION INC
Inventor(s): (std): BRUNS AARON J ; DARR MATTHEW J

Title: SENSOR INFORMATION MANAGEMENT SYSTEMS AND METHODS

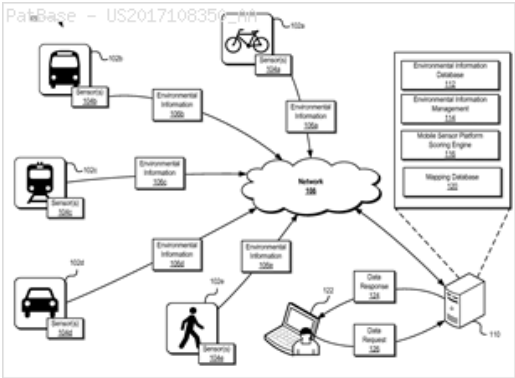
Abstract: This disclosure relates to systems and methods for management of information, including environmental information, obtained by a variety of sensors associated with one or more distributed mobile sensor platforms. In certain embodiments, the geographically transitory nature of a mobile sensor platform may be leveraged to facilitate collection of environmental information over a larger geographic area than that of a fixed sensor platform. Embodiments disclosed herein provide for information consistency and/or quality checking of information obtained by mobile sensor platforms. Further embodiments may be used to incentivize the collection and/or acquisition of certain data via point and/or credit based compensation.

Classifications:

International (IPC 8-9): G01D1/10 G01D3/08 G06F21/10 G06Q50/26 G06Q50/30 (Advanced/Invention)

CPC: G01D3/08 G01D1/10 G06Q50/30

US: 702/188



Family:

Publication number	Publication date	Application number	Application date
CN108369722 A	20180803	CN201680073895	20161014
EP3362981 A1	20180822	EP20160856355	20161014
US2017108350 AA	20170420	US20150884629	20151015
WO17066690 A1	20170420	WO2016US57203	20161014

Priority:

US20150884629 20151015 WO2016US57203 20161014

Probable Assignee: INTERTRUST TECHNOLOGIES CORP

Assignee(s): (std): INTERTRUST TECH CORP

Assignee(s): INTERTRUST TECHNOLOGIES CORP

Inventor(s): (std): NAGAO YUTAKA

Agent(s): FINNEGAN EUROPE LLP; THAYER LINDA J

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 DJ 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 KW 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

Title: SYSTEM FOR AVOIDING COLLISIONS BETWEEN AUTONOMOUS VEHICLES CONDUCTING AGRICULTURAL OPERATIONS

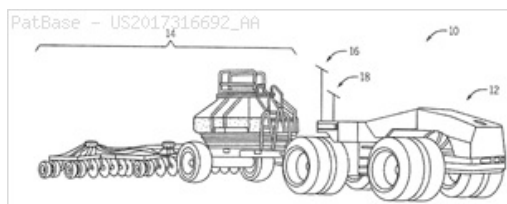
Abstract: The present invention provides a system for conducting agricultural operations in a field using autonomous vehicles in which a collision avoidance mechanism may be provided. The system may include providing a mission plan for autonomous vehicles to conduct agricultural operations, establishing a hierarchy for the vehicles, and monitoring for an event conditions indicating vehicles are traveling toward a collision with respect to one another. Upon receiving an event condition, the system may revise the mission plan to adjust a path of one of the vehicles based on the hierarchy in order to avoid the collision.

Classifications:

International (IPC 8-9): A01B69/04 A01B79/00 A01B79/02

A01D41/127 G05D1/00 G08G1/16 (Advanced/Invention)

CPC: G08G1/164 G08G1/166 A01B69/008 A01D41/1278
G05D1/0088 A01B79/005 A01B79/02



Family:

Publication number	Publication date	Application number	Application date
US2017316692 AA	20171102	US20160144166	20160502
WO17192296 A1	20171109	WO2017US29275	20170425

Priority:

US20160144166 20160502

Probable Assignee: CNH IND AMERICA LLC

Assignee(s): (std): CNH IND AMERICA LLC

Assignee(s): CNH INDUSTRIAL AMERICA LLC

Inventor(s): (std): DOLLINGER TYSON ; FOSTER CHRISTOPHER A ; POSSELIUS JOHN ; RAY BRIAN ; RUSCIOLELLI AAM ; RUSCIOLELLI ADAM

Agent(s): STOMMA PETER C

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 DJ 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 KH KM KN KP KR KW 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

Title: CORRECTING BIAS IN PARAMETER MONITORING

Abstract: Sensor data, and the sensors themselves are calibrated, in near real time. Sensor data from multiple mobile machines is received on a mobile machine and used to calibrate sensor data on the mobile machine.

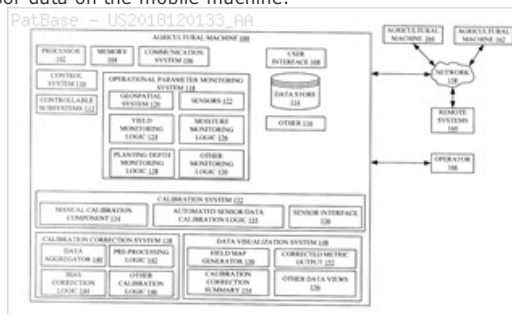
Classifications:

International (IPC 8-9): A01B63/00 A01B76/00 A01D41/127

G01D18/00 G05B13/02 G05B13/024 G05B19/4063

G06Q50/02 (Advanced/Invention)

CPC: G01D18/002 A01B63/002 A01D41/1273 G05B2219/37008
G05B19/4063 A01B76/00 A01D41/127 G06Q50/02 G05B13/024



Family:

Publication number	Publication date	Application number	Application date
BR102017022222 A2	20180529	BR20171022222	20171016
EP3316208 A1	20180502	EP20170196334	20171013
US2018120133 AA	20180503	US20170723330	20171003
US2018122020 AA	20180503	US20160340704	20161101

Priority:

US20160340704 20161101 US20170723330 20171003

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Inventor(s): (std): ANDERSON NOEL W ; BLANK SEBASTIAN ; BLANK SEBASTIAN DR ; DOHN W PFEIFFER ; JAMES J PHELAN ; NOEL W ANDERSON ; PFEIFFER DOHN ; PFEIFFER DOHN W ; PHELAN JAMES J ; ROBERT A STEVENS ; SEBASTIAN BLANK ; STEVENS ROBERT A

Inventor(s): NOELW ANDERSON

Agent(s): HOLST SOENKE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR