

Nicolas Vargas

Title: TRAFFIC VIOLATION DETECTION AT AN INTERSECTION EMPLOYING A **VIRTUAL** VIOLATION LINE

Abstract: Source: US2004054513A A system and method for detecting and filtering non-violation events in a traffic light violation prediction and recording system, including at least one violation prediction image capturing device, such as a video camera, and a violation prediction unit. The prediction unit generates a prediction reflecting a probability that the **vehicle** will violate a red light phase of the traffic signal. A non-violation event filter determines whether the **vehicle** approaching the traffic signal is actually performing a non-violation action. Non-violation events may include a variety of actions performed by the **vehicle**, and are fully configurable to meet the needs and policies of various specific intersections and jurisdictions. When the non-violation event filter determines that the **vehicle** is performing a non-violation action, it causes some number of resources that may have been allocated to recording the non-violating **vehicle**, and/or prevents further resources from being allocated to such recording.

Classifications:

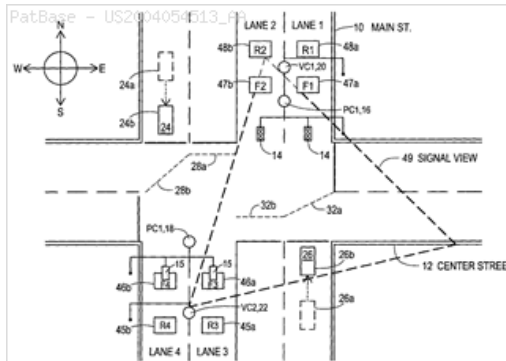
International (IPC 8-9): G06T7/20 G07B15/00 G07B15/02
G07B15/06 G08G1/017 G08G1/054 G08G1/07 G08G1/08
G08G1/16 (Advanced/Invention)

International (IPC 1-7): G06F7/00 G06F9/455 G06G7/48 G06K9/00
G06K9/00 G08G1/00 G08G1/01 G08G1/017 G08G1/08
G08G1/16 H04N7/00 H04N7/00 H04N7/18

CPC: Y10S707/99932 Y10S707/99945 Y10S707/99948
Y10S707/99943 G08G1/054 G08G1/07 G08G1/08 G08G1/164
G07B15/06 G08G1/0175

European: G07B15/06 G08G1/017A G08G1/054 G08G1/07
G08G1/08 G08G1/16B

US: 1/1 340/916 340/921 340/933 340/937 348/149 701/117
701/119 701/301 703/8 703/8P 707/102 707/104.1 707/2
707/999.002 707/999.102 707/999.104 707/999.107



Family:

Publication number	Publication date	Application number	Application date
AU200016316 A1	20000613	AU20000016316	19991122
AU200016316 A5	20000613	AU20000016316	19991122
AU200019182 A1	20000613	AU20000019182	19991122
AU200019182 A5	20000613	AU20000019182	19991122
AU200020275 A1	20000613	AU20000020275	19991122
AU200020275 A5	20000613	AU20000020275	19991122
AU755840 B2	20021219	AU20000016316	19991122
AU761072 B2	20030529	AU20000019182	19991122
AU761072 C	20030710	AU20000019182	19991122
EP1138029 A1	20011004	EP19990959067	19991122
EP1138029 A4	20050713	EP19990959067	19991122
EP1147665 A1	20011024	EP19990962818	19991122
EP1147665 A4	20050713	EP19990962818	19991122
US2004054513 AA	20040318	US20030661739	20030912
US6188329 BA	20010213	US19990447010	19991122
US6281808 BA	20010828	US19990444942	19991122
US6573929 BA	20030603	US19990444084	19991122
US6647361 BA	20031111	US19990444156	19991122
US6754663 BA	20040622	US19990447032	19991122
US6950789 BB	20050927	US20030661739	20030912
WO0031706 A1	20000602	WO1999US27643	19991122
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WO0031707 A1	20000602	WO1999US27557	19991122
WO0031707 C2	20011122	WO1999US27557	19991122
WO0031969 A1	20000602	WO1999US27653	19991122

Priority:

US19980109731P 19981123	US19990444084 19991122	US19990447010 19991122
US19990444942 19991122	US19990447032 19991122	US19990444156 19991122
WO1999US27643 19991122	WO1999US27653 19991122	WO1999US27557 19991122
US20030661739 20030912		

Probable Assignee: AMERICAN TRAFFIC SOLUTIONS INC

Assignee(s): (std): NESTOR INC

Assignee(s): US BANK NATIONAL ASSOCIATION ; US BANK NATIONAL ASSOCIATION AS COLLATERAL AGENT ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; AMERICAN TRAFFIC SOLUTIONS INC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BMO HARRIS BANK NA AGENT AS

Inventor(s): (std): COIMBATORE LALITHA R ; GLIER MICHAEL T ; HSIEH STEVEN S ; JOHNSON GREG D ; REILLY DOUGLAS L ; SYBEL RANDALL T ; TINNEMEIER MICHAEL T ; STEVEN I SMALL ; SMALL STEVEN I ; RANDALL T SYBEL ; MICHAEL T TINNEMEIER ; MICHAEL T GLIER ; MARK D LAIRD ; LAIRD MARK D ; DOUGLAS L REILLY

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; WEINGARTEN SCHURGIN GAGNEBIN AND LBOVICI LLP

Designated states: AE 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 TZ UA UG UZ VN YU ZA ZW

Title: AUTOMATIC **VEHICLE** IDENTIFICATION AND CLASSIFICATION (AVIC) SYSTEM EMPLOYING A TUNNEL-ARRANGEMENT OF PLIIM-BASED SUBSYSTEMS

Abstract: Source: US2003042304A Methods of and systems for illuminating objects using **planar** laser illumination beams having substantially-**planar** spatial distribution characteristics that extend through the field of view (FOV) of image formation and detection modules employed in such systems. Each **planar** laser illumination beam is produced from a **planar** laser illumination beam array (PLIA) comprising an plurality of **planar** laser illumination modules (PLIMs). Each PLIM comprises a visible laser diode (VLD, a focusing lens, and a cylindrical optical element arranged therewith. The individual **planar** laser illumination beam components produced from each PLIM are optically combined to produce a composite substantially **planar** laser illumination beam having substantially uniform power density characteristics over the entire spatial extend thereof and thus the working range of the system. Preferably, each **planar** laser illumination beam component is focused so that the minimum beam width thereof occurs at a point or **plane** which is the farthest or maximum object distance at which the system is designed to acquire images, thereby compensating for decreases in the power density of the incident **planar** laser illumination beam due to the fact that the width of the **planar** laser illumination beam increases in length for increasing object distances away from the imaging optics. By virtue of the present invention, it is now possible to use both VLDs and high-speed CCD-type image detectors in conveyor, hand-held and hold-under type scanning applications alike, enjoying the advantages and benefits that each such technology has to offer, while avoiding the shortcomings and drawbacks hitherto associated therewith.

Classifications:

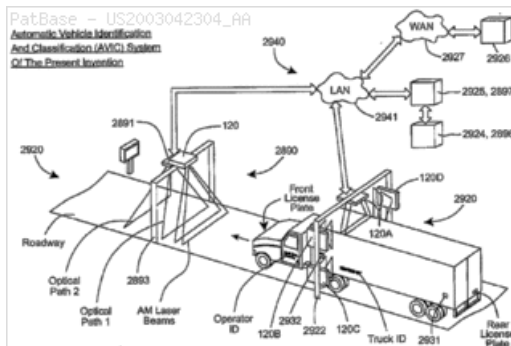
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International (IPC 1-7): G06K7/10 G07B15/02

CPC: G02B19/0052 G02B19/0085 G02B19/009 G02B19/0095 G02B26/10 G02B27/095 G02B27/48 G06K7/10594 G06K7/10732 G06K9/325 H01S5/005 H01S5/02248 H01S5/4025 G06K9/26 G06K7/10 G02B19/0014 G06K7/146

European: G02B26/10 G02B27/09F G02B27/09F1 G02B27/09S2 G02B27/48 G06K7/10S2P G06K7/10S4D2 G06K9/26 G06K9/32R2 H01S5/40H S02B27/48 T01S5/00F T01S5/022M4

US: 235/384 235/384P 235/462.01 235/462.25 235/472.01



Family:

Publication number	Publication date	Application number	Application date
US2003042304 AA	20030306	US20020165422	20020606
US6827265 BB	20041207	US20020165422	20020606

Priority:

US19980047146	19980324	US19980157778	19980921	US19990274265	19990322
US20010954477	20010917	US20010883130	20010615	US20010781665	20010212
US20010780027	20010209	US20000721885	20001124	US19990327756	19990607
US20020165422	20020606	US20010990585	20011121	US20010999687	20011031
WO1999US06505	19990324	WO2000US15624	20000607		

Probable Assignee: METROLOGIC INSTRUMENTS INC

Assignee(s): (std): METROLOGIC INSTR INC

Assignee(s): METROLOGIC INSTRUMENTS INC ; MORGAN STANLEY AND CO INC ; OMNIPLANAR INC ; PNC BANK ; SCHNEE MICHAEL D ; ZHU XIAOXUN ; KNOWLES C HARRY ; METEOR HOLDING CORP

Inventor(s): (std): KNOWLES C HARRY ; SCHNEE MICHAEL D ; ZHU XIAOXUN

Title: AUTOMATIC **VEHICLE** IDENTIFICATION (AVI) SYSTEM EMPLOYING **PLANAR** LASER ILLUMINATION IMAGING (PLIIM) BASED SUBSYSTEMS

Abstract: Source: US2003042303A Methods of and systems for illuminating objects using **planar** laser illumination beams having substantially-**planar** spatial distribution characteristics that extend through the field of view (FOV) of image formation and detection modules employed in such systems. Each **planar** laser illumination beam is produced from a **planar** laser illumination beam array (PLIA) comprising an plurality of **planar** laser illumination modules (PLIMs). Each PLIM comprises a visible laser diode (VLD, a focusing lens, and a cylindrical optical element arranged therewith. The individual **planar** laser illumination beam components produced from each PLIM are optically combined to produce a composite substantially **planar** laser illumination beam having substantially uniform power density characteristics over the entire spatial extend thereof and thus the working range of the system. Preferably, each **planar** laser illumination beam component is focused so that the minimum beam width thereof occurs at a point or **plane** which is the farthest or maximum object distance at which the system is designed to acquire images, thereby compensating for decreases in the power density of the incident **planar** laser illumination beam due to the fact that the width of the **planar** laser illumination beam increases in length for increasing object distances away from the imaging optics. By virtue of the present invention, it is now possible to use both VLDs and high-speed CCD-type image detectors in conveyor, hand-held and hold-under type scanning applications alike, enjoying the advantages and benefits that each such technology has to offer, while avoiding the shortcomings and drawbacks hitherto associated therewith.

Classifications:

International (IPC 8-9): G02B6/42 G06C11/08 G06F17/00 G06K7/10 G06K7/14 G06K9/22 G07B15/06 H01S3/00 H01S3/08 H01S5/022

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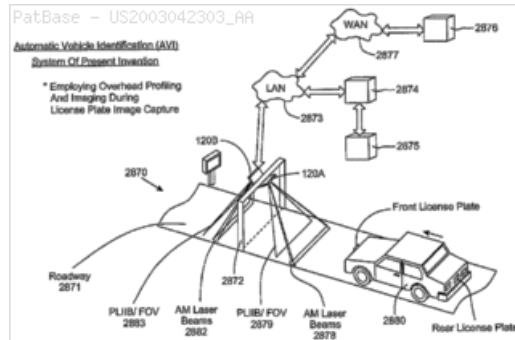
H01S5/00 (Advanced/Non-invention)

International (IPC 1-7): G06K7/10 G07B15/02

CPC: G06K9/26 G02B27/48 G06K7/10594 G06K9/325 H01S5/005 H01S5/02248 H01S5/4025 G07B15/06

European: G06K7/10S2P G06K9/26 G06K9/32R2 H01S5/022 H01S5/40H S02B27/48 T01S5/00F T01S5/022M4 T01S5/40H

US: 235/384 235/384P 235/462.01 235/462.25 235/472.01



Family:

Publication number	Publication date	Application number	Application date
US2003042303 AA	20030306	US20020161091	20020531
US6959869 BB	20051101	US20020161091	20020531

Priority:

US19990327756	19990607	US20000721885	20001124	US20010780027	20010209
US20020161091	20020531	US20010990585	20011121	US20010999687	20011031
US20010954477	20010917	US20010883130	20010615	US20010781665	20010212
WO2000US15624	20000607				

Probable Assignee: METROLOGIC INSTRUMENTS INC

Assignee(s): (std): METROLOGIC INSTR INC

Assignee(s): METROLOGIC INSTRUMENTS INC ; MORGAN STANLEY AND CO INC ; OMNIPLANAR INC ; PNC BANK ; METEOR HOLDING CORP

Inventor(s): (std): ZHU XIAOXUN ; TSIKOS CONSTANTINE J ; SCHNEE MICHAEL D ; KNOWLES C HARRY

Agent(s): THOMAS J

Title: FERROUS OBJECT DETECTOR

Abstract: Source: US2011199077A A three-dimensional magnetic field sensor is used as part of a **vehicle** detector to monitor plural parking spaces. The detector includes a controller which periodically samples the magnetic field and compares the present field to a prior field. When the difference exceeds a threshold, the change in the field is compared to previously recorded calibration changes to determine which calibration change the present change most closely resembles. The results are displayed to direct customers to vacant parking spaces or to identify spaces which are occupied but whose meters have expired.

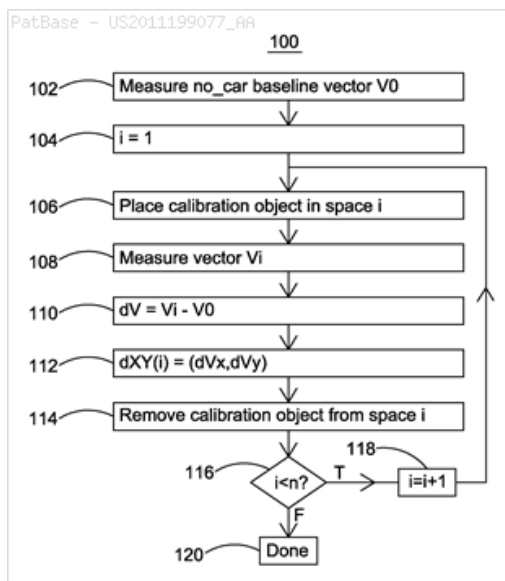
Classifications:

International (IPC 8-9): G01R33/10 G01R35/00 G07B15/02
G08G1/14 (Advanced/Invention)

CPC: G06Q30/0284 G07B15/02 G08G1/142 G01R33/10

European: G01R33/10 G06Q30/0284

US: 324/202 324/202S 324/244 324/244P 340/932.2 340/932.200S
705/418 705/418P

**Family:**

Publication number	Publication date	Application number	Application date
US2011199077 AA	20110818	US20100705919	20100215
US2011218940 AA	20110908	US20100844934	20100728

Priority:

US20090228997P 20090728 US20100705919 20100215 US20100844934 20100728

Probable Assignee: RECHARGE POWER LLC

Assignee(s): (std): BERGSTROM GARY ; RECHARGE POWER LLC ; SEALE JOSEPH B ; SMITH NATHANIEL T

Inventor(s): (std): BERGSTROM GARY ; SEALE JOSEPH B ; SMITH NATHANIEL T ; SMITH NATHANIEL TYLER

Title: UNIVERSAL **VEHICLE** MANAGEMENT SYSTEM

Abstract: Source: US2013006722A A universal **vehicle** management apparatus that can be installed on any means of conveyance, including means of conveyance where installation would result in significant exposure to environmental hazards, and including a rating system that can handle complex fare calculations from a plurality of sensors.

Classifications:

International (IPC 8-9): G07B13/02 G07B13/04

G07B15/02 (Advanced/Invention);

G07B13/02 G07B15/02 (Core/Invention);

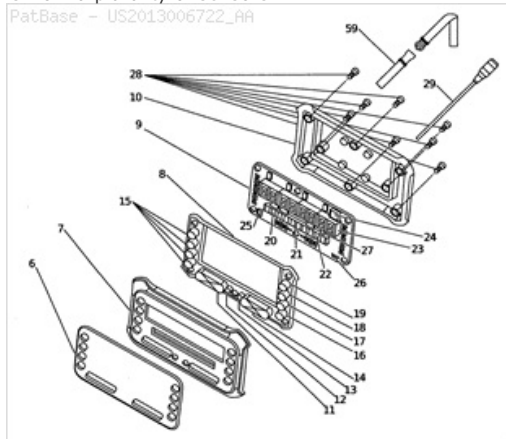
G07B (Subclass/Invention)

CPC: G07B13/00

European: G07B13/00

US: 705/13

PatBase - US2013006722_AA



Family:

Publication number	Publication date	Application number	Application date
AP201306757 A0	20130331	AP20130006757	20110808
CL2013000414 A1	20131206	CL20130000414	20130208
CN103189900 A	20130703	CN201180044955	20110808
CN103189900 B	20160803	CN201180044955	20110808
CO6720959 A2	20130731	CO20130046975	20130308
CU20130021 A7	20130829	CU20130000021	20130211
CU24054 B	20141226	CU20130000021	20130211
DOP2013000033 A	20131015	DO20130000033	20130208
EP2603903 A2	20130619	EP20110816707	20110808
GT201300037 A	20141113	GT20130000037	20130208
IN01984DN2013 A	20141031	IN2013DN01984	20130305
MA34582 B1	20131002	MA20130035709	20130306
MX2013001663 A1	20131017	MX20130001663	20110808
MX341529 B	20160824	MX20130001663	20110808
PE11582013 A1	20131018	PE20130000262	20110808
TH130037 A	20131211	TH20131000687	20110808
TN2013000048 A1	20140625	TN20130000048	20130207
US2013006722 AA	20130103	US20110137345	20110808
WO12021162 A2	20120216	WO2011US01401	20110808
WO12021162 A3	20120531	WO2011US01401	20110808
ZA201301031 A	20140430	ZA20130001031	20130207

Priority:

US20100401337P 20100810 US20110137345 20110808 WO2011US01401 20110808

Probable Assignee: WORLD MOTO INC

Assignee(s): (std): GILES PAUL ANTHONY ; WORLD MOTO ; WORLD MOTO INC ; ZIOMKOWSKI CHRISTOPHER LOUIS

Assignee(s): NET PROFITS TEN INC ; PAUL ANTHONY GILES

Inventor(s): (std): ANTHONY GILES PAUL ; CHRISTOPHER LOUIS ZIOMKOWSKI ; GILES PAUL ANTHONY ; GILES PAUL ANTHONY ; LOUIS ZIOMKOWSKI CHRISTOPHER ; PAUL ANTHONY GILES ; ZIOMKOWSKI CHRISTOPHER LOUIS ; ZIOMKOWSKI CHRISTOPHER LOUIS

Inventor(s): PAUL ANTONY GILES

Agent(s): ESTUDIO CAREY LTDA; MAURICIO JARAMILLO CAMPUZANO; RUTT JASON EDWARD

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 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: PARKING STATUS SYSTEM

Abstract: Source: US2012078686A A parking status system merges images of a street, a lot, or a garage with representations of parked **vehicles** and the status of each parking space shown in a street image. A user retrieves the merged image with the **vehicles** parking in select spaces through a wireless communications network from the parking management computer system. The user then verifies payment status of multiple parking spaces simultaneously as the user patrols a beat on foot or in a **vehicle**. The present invention operates upon existing web browsers. The present invention allows a user to select any view within 360 degrees of the user's position in different sizes and while in motion. The present invention refreshes the status of parking meters and subscriber **vehicles** at a regular interval.

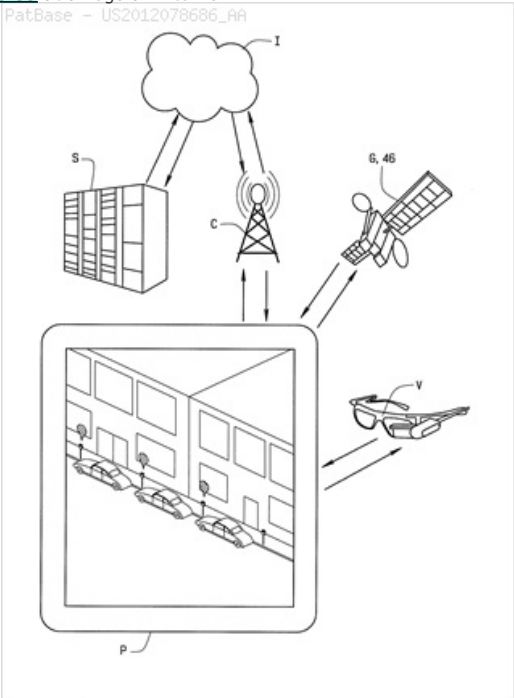
Classifications:

International (IPC 8-9): G07B15/02 H04N7/18 (Advanced/Invention)

CPC: G07B15/00 G07B15/02

European: G07B15/02

US: 348/148 348/148S 705/13 705/13P



Family:

Publication number	Publication date	Application number	Application date
US2012078686 AA	20120329	US20110245385	20110926

Priority:

US20100386645P 20100927 US20110245385 20110926

Probable Assignee: BASHANI GILAD G

Assignee(s): (std): BASHANI GILAD G

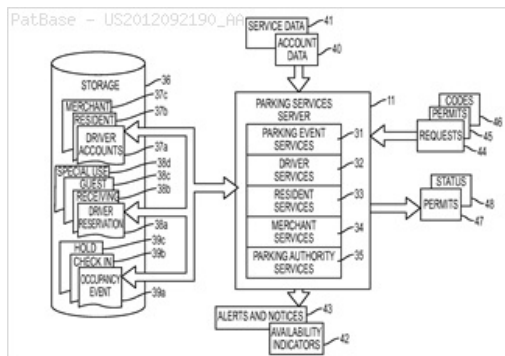
Inventor(s): (std): BASHANI GILAD G

Title: COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR MANAGING MOTOR **VEHICLE** PARKING RESERVATIONS

Abstract: Source: US2012092190A A computer-implemented system and method for managing motor **vehicle** parking reservations is provided. Motor **vehicle** parking spaces are managed through a server. Smart parking devices physically proximate to the parking spaces are interfaced with the server. **Vehicle** occupancy sensors physically proximate to the parking spaces are interfaced with the server. Parking availability indicators associated with the parking spaces are interfaced with the server. A motorist reserves a parking space. A reservation request for the parking space is accepted. The request is granted if available over any other reservations. Occupancy of the requested parking space is sensed through the nearest **vehicle** occupancy sensor. The motorist's or the motor **vehicle**'s identity are verified against the reservation through the nearest smart parking device. Parking availability is indicated through the nearest parking availability indicator based upon the current time, any motor **vehicle** occupancy, applicable parking regulations, or any unfulfilled reservations for the parking space.

Classifications:

International (IPC 8-9): B60Q1/48 G06Q10/00 G06Q10/02 G06Q30/06 G06Q30/08 G06Q50/10 G06Q50/26 G06Q50/30 G07B15/00 G07B15/02 G07B15/06 G07F17/00 G07F17/24 G08B25/12 G08G1/14 H04N7/18 (Advanced/Invention); G06F17/00 G06G7/00 G06Q10/00 G06Q10/02 G06Q30/00 G06Q40/00 G07B15/00 G07B15/02 (Advanced/Non-invention)
CP: G08B13/1672 G06Q30/02 G06Q30/08 G06Q50/30 G06Q10/02 G07B15/00 G08G1/147 G06Q10/025 G06Q10/00 G06Q50/265 G07F17/0021 G07F17/246 G07B15/02 G08G1/14 G08G1/148 H04N7/18 G08G1/142 G08B25/12
European: G06Q10/02 G07B15/00 G07F17/00C2 G07F17/24D G08B13/16B2 G08G1/14C3
US: 1/1 340/425.5 340/521 340/540 340/901 340/932.2 340/932.200P 340/932.200S 340/933 348/143 348/143P 348/148 348/E7.085 348/E70.85S 701/532 705/1.1 705/13 705/13P 705/13S 705/400 705/418 705/5 705/5P 705/7.35



Family:

Publication number	Publication date	Application number	Application date
CN102456274 A	20120516	CN201110311136	20111013
CN102456274 B	20160914	CN201110311136	20111013
EP2444924 A1	20120425	EP20110184253	20111007
JP2012094134 A2	20120517	JP20110225374	20111012
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Priority:

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Probable Assignee: CONDUENT BUSINESS SERVICES LLC

Assignee(s): (std): PALO ALTO RES CT INC ; PARTRIDGE KURT ; GREENE DANIEL H ; GOOD LANCE E ; ISAACS ELLEN ; KRIVACIC ROBERT THOMAS ; HOOVER ROGER PHYLOS ; CUMMINS DAVID PRESTON ; ELDERSHAW CRAIG ; GLASNAPP JAMES ; PALTO ALTO RES CT INC ; XEROX CORP ; UCKUN SERDAR ; STEFIK MARK JEFFREY ; TORRES FRANCISCO EDUARDO ; XEROX CORPORATION ; BELL ALAN G

Assignee(s): CONDUENT BUSINESS SERVICES LLC ; PALO ALTO RESEARCH CENTER INC ; PALTO ALTO RESEARCH CENTER INC

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Agent(s): SKONE JAMES ROBERT EDMUND; PATRICK J S; MAKIKO; PATRICK JS

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

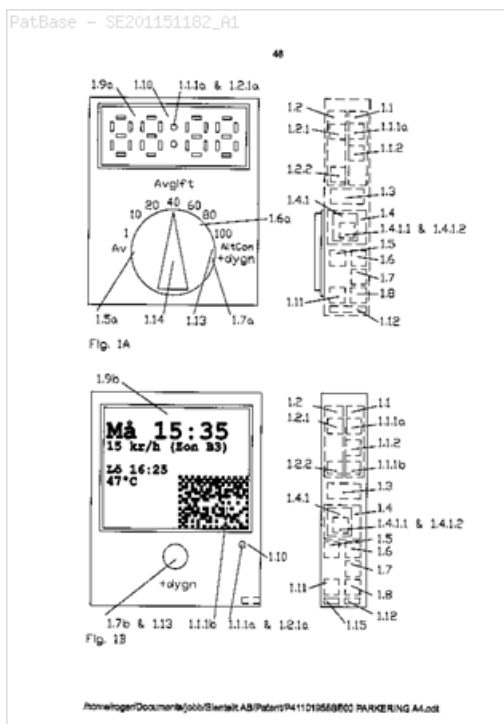
Title: ANORDNING DEVICE (Machine translation)

Abstract: Source: SE201151182A 1. Anordning avsedd att anvaendas vid avgiftsbelagd parkering av ett fordon och som moejliggjoer verifiering av anordningen och korrekt anvandning, innefattande en foersta 5 enhet (1) som vid anvandning av anordningen placeras synligt i fordonet, en andra enhet (2) som aer mobil utanfoer fordonet och en tredje enhet (3.3) som aer stationaer kaennetecknad av att den foersta enheten (1) innefattar en aktiveringsenhet (1.5) som pa boerjar respektive avslutar parkeringen, 10 en informationsenhet (1.4) som innehaeller, maeter och sammanstaeller information om den foersta enheten (1) och dess anvandning, en krypteringsenhet/beraekningsenhet (1.3) som anvands foer att behandla information som ska avgas fraan den foersta enheten (1) sa att informationen blir laast, blir ett krypterat eller kryptografiskt signerat meddelande, och daerigenom inte kan haerroera 15 fraan en enhet som saknar raett krypteringsnyckel och metod, en utsaendningsenhet (1.1) som anpassar och utsaender meddelandet, innefattande en funktionsindikator (1.1.1) som synligt visar att den foersta enheten (1) aer aktiverad genom att visuell indikation sker, med flera samtidiga syften; i) anvandaren kan foervissa sig om att enheten aer igang och fungerar 20 ii) samtidig krypteringsskyddad informationsoeverfoering till den andra enheten (2) och att den andra enheten (2) innefattar en avlaesningsenhet (2.2) som avlaeser den bestaemda visuella signalen, som utsaents fraan den foersta enhetens funktionsindikatorn (1.1.1) och tolkar detta till ett meddelande, 25 en krypteringsenhet/beraekningsenhet (2.3) som anvands foer att behandla det av avlaesningsenheten (2.2) mottagna meddelandet fraan den foersta enheten (1) sa att ett krypterat meddelande dekrypteras alternativt att ett kryptografiskt signerat meddelandes kryptografiskasignatur verifieras sa att informationen blir betrodd, tillgaenglig och anvandbar, 30 en informationsenhet (2.4) innefattande en minnesenhet (2.4.1) i vilken information om den andra enheten (2), drivrutiner, beraekningsrutiner, mjukevare, konfiguration inmatas och lagras, samt tar emot, lagrar och/eller saender vidare informationen fraan den foersta enhetens informationsenhet (1.4), avlaest av avlaesningsenheten (2.2), dekrypterad/verifierad av krypteringsenheten (2.3), och annan information emottagen, 35 lagrad, uppmaett pa den andra enheten (2), en processenhet (2.16) som processar erhaellen information fraan den foersta enhetens informationsenhet (1.4) tillsammans med bestaemd annan information mottagen, uppmaett och/eller lagrad i den andra /home/roger/Documents/jobb/Slentelit AB/Patent/P41101955SE00 PARKERING A4.odt enhetens informationsenhet (2.4) och verifierar den foersta enheten (1) och av anvandaren korrekt anvandning foer parkering vid kontrolltillfaellet, en display (2.9) och/eller kommunikation kanal (2.15) som foer parkeringsvakt visar processenhetens resultat, och att den tredje enhet (3.3) innefattar en naetverksansluten server, en registreringsenhet (3.3.1) som registrerar den foersta enheten (1) och den andra enhetens (2) respektive informationsenheter (1.4, 2.4) foer anvandning. 1. A device for use in the paid parking of a **vehicle**, which enables verification of the device and the correct use, including a first 5 unit (1) that the use of the device in a conspicuous position in the **vehicle**, a second unit (2) which is mobile outside the **vehicle** and a third unit (3.3), which is stationary, characterized in that the first unit (1) includes an activation device (1.5) that starts and finishes the car park, a 10-one information unit (1.4), containing measures and compiles information on the first drive (1) and its use, an encryption device / unit (1.3) that is used to process information, to be given from the first unit (1) so that information is locked, it becomes an encrypted or cryptographically signed message, and thus can not be derived 15 from a device without the correct encryption key and method, a transmission unit (1.1) that adapts and transmits the message, including an operation indicator (1.1.1) that visibly shows that the first unit (1) is activated by visual indication occurs, with several simultaneous purposes: in) the user can verify that the device is up and running 20 ii) simultaneous encryption protected information transfer to the other device (2) and that the other device (2) comprises a display unit (2.2), which reads the definite visual signal, emitted from the first unit operation indicator (1.1.1) and interprets this to a message, 25, an encryption device / unit (2.3), used to treat it by reading unit (2.2) message received from the first unit (1) so that an encrypted message is decrypted or a cryptographically signed message's cryptographic signature is verified so that information is trusted, accessible and usable, 30, an information unit (2.4) comprising a memory device (2.4.1) in which the information about the second unit (2), drivers, calculation procedures, software, configuration input and stored, as well as receiving, storing and / or transmitting further information from the first device data unit (1.4), read by the reading unit (2.2), decrypted / verified by encrypting drive (2.3), and other information Received, 35 stored, measured on the second unit (2), a process unit (2.16) that processes the information received from the first device data unit (1.4), together with certain other information received, measured and / or stored in the second / home / roger / Documents / jobs / Slentelit AB / Patent/P41101955SE00 PARKING A4.odt device data unit (2.4) and verifies the first unit (1) and by the user proper use for the parking of the checks, a display (2.9) and / or communication channel (2.15) as the warden shows process unit results and the third unit (3.3) includes a network server, a registration unit (3.3.1) which records the first unit (1) and the second unit (2) and information units (1.4, 2.4) for use.

Classifications:

International (IPC 8-9): G07B15/02 G07C1/30 (Advanced/Invention)

CPC: G07B15/02 G07C1/30



Priority:

SE20110051182 20111212

Probable Assignee:

SLENTELIT AB

Assignee(s): (std):

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Inventor(s): (std):

LARSSON ROGER

Inventor(s):

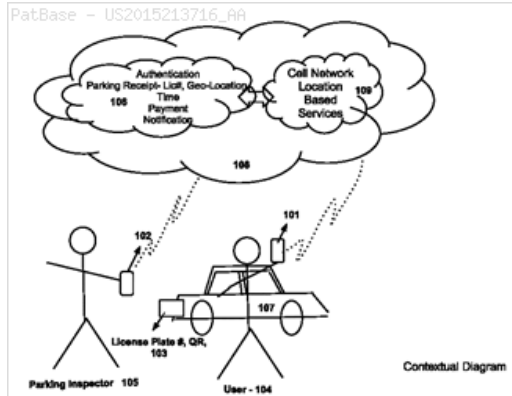
ROGER LARSSON

Title: CENTRALIZED PARKING PAYMENT AND MONITORING SYSTEM USING GEO LOCATION ENABLED DEVICES

Abstract: Source: US2015213716A The present invention describes the system of centralized parking payment and monitoring, which uses geo-location enabled devices such as iPhone, android, RIM devices, mobile phones, pagers and wireless mobile computers. Using such system person can get a parking receipt; do payment of parking in the paid parking area directly from his geo-location enabled devices without any intervention of any attendant. Simultaneously, police or parking manager can also check the **virtual** parking receipt of the **vehicle** in the centralized parking system using Geo-location enable mobile device. The big differences between this new solution is compared to existing solution are (1) All the current solutions are identifying a particular parking spot instead of looking at holistic view of parking on a whole street or an unmanned parking area. Geo-location devices have 5-25 meters inaccuracy in identifying a position i.e. 1-5 parking spots inaccuracy. As a result, geo-location device cannot locate a particular parking spot. Thereby no public parking solution exists based on the geo-location based devices alone. In our solution, we re-engineered the business problem and instead of looking at a particular parking spot, the new process is dependent of parking of particular section of street or an unmanned parking lot-which we refer to 'Parking Area'. The characteristic of Parking Area is that pricing and business apply to Parking Area as a whole unit. We are able to provide solution just based on geo-location based devices by combining concept of Parking Area with design of with parking application along with enforcement application. Parking Area will be divided in three level hierarchy Admin1, Admin2 and Admin3. (2) This solution does not need any new devices to be installed or parking spots to be marked and entered in the parking application. It uses geo-location enabled devices to identify the location of the parking place.

Classifications:**International (IPC 8-9):** G01C21/00 G06F19/00 G07B15/02

G08G1/14 (Advanced/Invention)

CPC: G08G1/144 G08G1/146 G07B15/02**US:** 340/932.2**Family:**

Publication number	Publication date	Application number	Application date
IN02490MU2012 A	20140314	IN2012MU02490	20120827
US2015213716 AA	20150730	US20130423127	20130502
WO14033727 A1	20140306	WO2013IN00294	20130502

Priority:

IN2012MU02490 20120827 WO2013IN00294 20130502

Probable Assignee: GOEL SUNIL**Assignee(s):** (std): GOEL SUNIL**Assignee(s):** MR SUNIL GOEL**Inventor(s):** (std): AGGARWAL ADITYA ; AGGARWAL ADITYAKUMAR AKSHAIAKUMAR ; GOEL SUNIL**Inventor(s):** MR ADITYA AGGARWAL ; MR SUNIL GOEL**Agent(s):** RACHCHH MANISH

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 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: METHOD AND SYSTEM FOR MANAGING OPERATION OF MULTI-LINE PUBLIC TRANSPORTATION

Abstract: Source: US2015105935A A method for managing operation of multi-line transportation includes setting an operation line of a transportation system, generating an operation pattern of the operation line including the day type of the operation day, generating a **vehicle** operation **plan** using the operation line and the operation pattern, generating a driver operation **plan** based on the **vehicle** operation **plan**, and assigning real **vehicles** and real drivers based on the **vehicle** operation **plan** and the driver operation **plan**, respectively. The operation pattern includes at least one time band characteristic of the operation day that is associated with demand for transportation and assigned to a section of a route in the operation line.

Classifications:

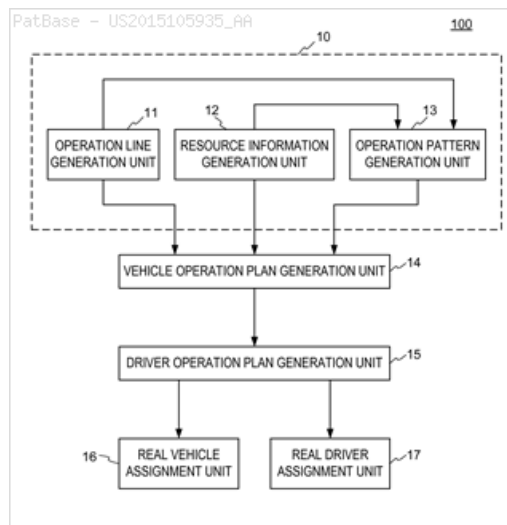
International (IPC 8-9): G01C21/34 G06Q10/06 G06Q50/30

G07B15/02 G08G1/00 (Advanced/Invention)

CPC: G08G1/00 G01C21/34 G06Q10/06314 G06Q10/06315

G06Q10/06 G01C21/3423 G06Q10/06311 G08G1/123 G06Q50/30

US: 701/1



Family:

Publication number	Publication date	Application number	Application date
CO7540068 A1	20160310	CO20140199044	20140909
EP2860675 A1	20150415	EP20140176132	20140708
KR101583398 B1	20160108	KR20130120640	20131010
KR20150042349 A	20150421	KR20130120640	20131010
US2015105935 AA	20150416	US20140288327	20140527

Priority:

KR20130120640 20131010 KR20130120640 20131010

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Assignee(s): LG CNS CO

Inventor(s): (std): KEUM HYUNG SUB ; PARK MYUNG GYU

Inventor(s): MYUNG GYU PARK ; HYUNG SUB KEUM

Agent(s): SILVANA MARIA LOPEZ DIAZ; JANSEN CORNELIS MARINUS

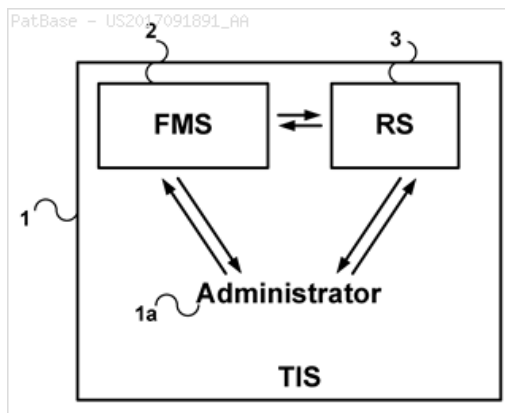
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: INTEGRATED RIDE SHARING SYSTEM AND METHOD FOR FLEET MANAGEMENT SYSTEMS

Abstract: Source: US2017091891A An integrated transportation system (TIS) that comprises at least one Fleet Management System (FMS), Ride Sharing (RS) module and Administrator of the TIS that is configured to supervise and mediate communication between the FMS and RS module upon uploading transportation service offers through the RS module to potential passengers and cargo. The TIS comprises functionalities that enable establishing FMS on the TIS, enabling the FMS to offer transportation service offers to TIS users through the RS module, receiving requests for such services through the RS module and supervising their execution. The TIS also maintains a database relating to transportation services carried out through it and offers access to such database to interested parties.

Classifications:

International (IPC 8-9): G06Q10/06 G06Q50/18 G06Q50/30
G07B15/00 G07B15/02 G08G1/00 G08G1/123 (Advanced/Invention)
CPC: G06Q10/06 G08G1/127 G07B13/00 G06Q50/30 G06Q50/188
G06Q10/06315 G07B15/00 G07B15/02 G08G1/202



Family:

Publication number	Publication date	Application number	Application date
EP3143600 A1	20170322	EP20150792867	20150514
US2017091891 AA	20170330	US20150311140	20150514
WO15173829 A1	20151119	WO20151L50520	20150514

Priority:

US20140053230P 20140922 US20140993080P 20140514 WO20151L50520 20150514
US20150311140 20150514

Probable Assignee: BERG ILAN VAN D

Assignee(s): (std): BERG ILAN VAN D

Inventor(s): (std): BERG ILAN VAN D

Agent(s): HARRISON IP LTD; SAADO HEZY

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