

La integración de las tecnologías de la Información y Comunicaciones (TIC) en vehículos e infraestructuras viales se ha mostrado muy provechosa a la hora de obtener soluciones avanzadas a los problemas del transporte de hoy en día.

Los Sistemas de Coches Inteligentes buscan facilitar la interacción entre el conductor, el vehículo y la carretera, de manera que los sistemas autónomos de abordaje se complementan con sistemas que cooperan entre los diferentes vehículos o entre los vehículos y las infraestructuras, para mejorar, de este modo, aspectos de gran relevancia, tales como la reducción de accidentes, la eficiencia energética o la reducción de la contaminación.

El presente boletín, elaborado por la Unidad de Información Tecnológica de la Oficina Española de Patentes y Marcas (OEPM), pretende revisar la evolución de la innovación, en el marco de las patentes de las tecnologías TIC en relación con algunos

de los sectores prioritarios contemplados en el desarrollo del “Coche Inteligente”, tales como: los sistemas de gestión optimizada del tráfico, las redes sensoriales o de comunicaciones integradas en los vehículos, los sistemas de gestión de plazas de aparcamiento o de peajes, y los sistemas de notificación de accidentes o averías a servicios de emergencia u otros conductores cercanos.

De este modo, el boletín, de periodicidad trimestral, recogerá las publicaciones más recientes de solicitudes internacionales de patente (solicitudes PCT) publicadas en el trimestre inmediatamente anterior a su elaboración. Se ha restringido el ámbito de este boletín a solicitudes PCT por considerarse que al ser estas solicitudes con las que las empresas pretenden proteger sus invenciones en distintos países, se corresponden con invenciones de una cierta relevancia tecnológica.

CONTENIDO:

- Gestión del tráfico
- Redes vehiculares
- Gestión de aparcamientos y peajes
- Notificación de accidentes

- Otras referencias

Solicitudes de Patente Publicadas

Los datos que aparecen en la tabla corresponden a una selección de las solicitudes de patentes PCT publicadas durante el trimestre analizado. Se puede acceder al documento completo haciendo clic sobre el mismo.

GESTIÓN DEL TRÁFICO

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2014061198 A1 20140424	NEC CORP	TRAFFIC INFORMATION DISTRIBUTION SYSTEM, CELLULAR COMMUNICATION SYSTEM, COMMUNICATION TERMINAL, AND TRAFFIC INFORMATION SERVER
WO2014077726 A1 20140522	MATSUR IGOR YURIEVICH	INDUCTION SYSTEM FOR DETECTING AND IDENTIFYING VEHICLES, INDUCTION REGISTRATION PLATE AND INDUCTION READER
WO2014048486 A1 20140403	ERICSSON TELEFON AB L M	CELLULAR-NETWORK BASED CONTROL OF VEHICLE-TO-VEHICLE COMMUNICATION
WO2014071222 A1 20140508	ITERIS INC	UNIVERSAL INTERFACE FOR COMMUNICATION OF TRAFFIC SIGNAL PRIORITY BETWEEN MASS TRANSIT VEHICLES AND INTERSECTION SIGNAL CONTROLLERS FOR PRIORITY REQUEST AND CONTROL
WO2014045359 A1 20140327	TOYOTA MOTOR CO LTD	ON-DEMAND VEHICLE OPERATION MANAGEMENT DEVICE, ON-DEMAND VEHICLE OPERATION MANAGEMENT METHOD, AND ON-DEMAND VEHICLE OPERATION MANAGEMENT SYSTEM

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REDES VEHICULARES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2014044655 A1 20140327	CONTINENTAL AUTOMOTIVE GMBH	METHOD FOR MONITORING AN ETHERNET-BASED COMMUNICATION NETWORK IN AN MOTOR VEHICLE
WO2014083097 A1 20140605	HERE GLOBAL B V	METHOD AND APPARATUS FOR CAUSING A CHANGE IN AN ACTION OF A VEHICLE FOR SAFETY
WO2014072849 A1 20140515	UNIV DO PORTO UNIV CARNEGIE MELLON	DENSITY-AWARE ZONE-BASED PACKET FORWARDING IN VEHICULAR NETWORKS
WO2014086651 A2 20140612	CONTINENTAL AUTOMOTIVE GMBH	METHOD FOR THE CONTROLLED CONNECTION OF A PLURALITY OF ON-BOARD POWER SYSTEM BRANCHES OF A VEHICLE, CONTROL UNIT FOR CARRYING OUT THE METHOD AND ON-BOARD POWER SYSTEM
WO2014073148 A1 20140515	TOYOTA MOTOR CO LTD	VEHICLE-MOUNTED COMMUNICATION DEVICE, INTER-VEHICLE COMMUNICATION SYSTEM, AND COMMUNICATION METHOD
WO2014072933 A1 20140515	UNIV DO PORTO	PROBABILISTIC KEY DISTRIBUTION IN VEHICULAR NETWORKS WITH INFRASTRUCTURE SUPPORT
WO2014067978 A1 20140508	CONTINENTAL AUTOMOTIVE GMBH	METHOD FOR ADMINISTERING A CONTROL DEVICE NETWORK IN A VEHICLE AND CONTROL DEVICE NETWORK
WO2014044415 A1 20140327	NEC EUROPE LTD	METHOD AND SYSTEM FOR OPERATING STATIONS IN A COOPERATIVE STATION NETWORK
WO2014053737 A1 20140410	RENAULT SA	VEHICLE MANAGEMENT SYSTEM AND ASSOCIATED METHOD
WO2014076386 A1 20140522	PEUGEOT CITROEN AUTOMOBILES SA	METHOD FOR ASSISTING REMOTE VEHICLE DIAGNOSIS
WO2014059097 A1 20140417	AUTOMATIC LABS INC	SYSTEM TO VIEW AUTOMOBILE DIAGNOSTIC INFORMATION
WO2014087503 A1 20140612	TOYOTA MOTOR CO LTD	VEHICLE NETWORK AUTHENTICATION SYSTEM, AND VEHICLE NETWORK AUTHENTICATION METHOD
WO2014082273 A1 20140605	GM GLOBAL TECH OPERATIONS INC	DRIVER-TO-DRIVER COMMUNICATION SYSTEM, VEHICLE, AND METHOD THEREOF
WO2014059218 A1 20140417	LIBERA INC	VEHICLE CENTRAL PROCESSING SYSTEM INTEGRATED WITH A MOBILE DEVICE
WO2014044860 A2 20140327	BAYERISCHE MOTOREN WERKE AG	METHOD FOR OPERATING AN ONBOARD NETWORK
WO2014053749 A1 20140410	TECHNOBOOST	POWER SUPPLY UNIT FOR SUPPLYING POWER AN ON-BOARD ELECTRICAL NETWORK OF A VEHICLE
WO2014061021 A1 20140424	TOWER SEC LTD	A DEVICE FOR DETECTION AND PREVENTION OF AN ATTACK ON A VEHICLE
WO2014070942 A1 20140508	CLOUDCAR INC	AUTOMOBILE DATA ABSTRACTION AND COMMUNICATION
WO2014078678 A1 20140522	BOSCH GMBH ROBERT	FAILSAFE COMMUNICATION SYSTEM AND METHOD
WO2014044695 A1 20140327	CONTINENTAL AUTOMOTIVE GMBH	SYSTEM FOR CONTROLLING A VEHICLE COMPUTER USING A MOBILE TELEPHONE

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GESTIÓN DE APARCAMIENTOS Y PEAJES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2014058288 A1 20140417	FIGUEROA ESTARADA JUAN MANUEL HERNÁNDEZ MU OZ JOSÉ ARTURO	MODULAR PARKING METER FOR MANAGING PARKING SPACES ON PUBLIC ROADS, WITH MICROCLIMATE RECORDING
WO2014059450 A1 20140417	OOSTERBERG ADRIAN MICHAEL	METHOD FOR MONITORING PARKING BAY OCCUPANCY
WO2014072751 A1 20140515	GELLINER LTD	PAYMENT SYSTEM AND METHOD
WO2014056843 A1 20140417	BAYERISCHE MOTOREN WERKE AG	METHOD, COMPUTER PROGRAM PRODUCT, AND ELECTRONIC CONTROL DEVICE FOR LOCATING A PARKING SPACE FOR VEHICLES
WO2014060117 A1 20140424	TOLL COLLECT GMBH	METHOD AND DEVICES FOR COLLECTING A TRAFFIC-RELATED TOLL FEE
WO2014051805 A1 20140403	INTEL CORP	SYSTEMS AND METHODS FOR GENERATION OF INCENTIVE OFFERS FOR ON-ROAD USE
WO2014072909 A1 20140515	PARKING TECHNOLOGIES LTD S	PARKING SPOT COORDINATION SYSTEM
WO2014072971 A1 20140515	GIVON ASSAF ATAD YOTAM	METHOD OF DETERMINING A LICENSE PLATE OF A VEHICLE TRACKED BY A SURVEILLANCE SYSTEM
WO2014079586 A1 20140530	ENEVO OY	SMART WASTE COLLECTION SYSTEM AND METHOD
WO2014080796 A1 20140530	MITSUBISHI HEAVY IND LTD	VEHICLE DATA COLLECTION SYSTEM, VEHICLE DATA COLLECTION METHOD, VEHICLE-MOUNTED DEVICE, PROGRAM, AND RECORDING MEDIUM
WO2014040612 A1 20140320	ERICSSON TELEFON AB L M	VIRTUAL PARKING MANAGEMENT
WO2014054929 A1 20140410	HONG JONG WOO	METHOD AND SYSTEM FOR AUTOMATIC TOLL COLLECTION FOR VEHICLE
WO2014080058 A1 20140530	MIRASOL GIEB ENRIQUE	DEVICE FOR DETERRING IMPROPER PARKING OF VEHICLES
WO2014052366 A1 20140403	INRIX INC	AUTHORIZATION OF SERVICE USING VEHICLE INFORMATION AND/OR USER INFORMATION
WO2014041843 A1 20140320	MITSUBISHI HEAVY IND PARKING CO LTD	OPERATION PANEL AND MECHANICAL-TYPE PARKING FACILITY
WO2014058999 A1 20140417	INSURANCE SERVICES OFFICE INC	SYSTEM AND METHOD FOR CLASSIFYING AND IDENTIFYING A DRIVER USING DRIVING PERFORMANCE DATA
WO2014030693 A1 20140227	KAMISAWA TERUHIKO	VEHICLE RENTAL ADMINISTRATION SYSTEM, VEHICLE RENTAL ADMINISTRATION PROGRAM, VEHICLE RENTAL CUSTOMER TERMINAL, AND VEHICLE RENTAL CUSTOMER TERMINAL PROGRAM
WO2014056078 A1 20140417	INNOTECH SAFETY SOLUTIONS INC	WHEEL LOSS DETECTION ASPECT AND THEFT DETECTION ASPECT SYSTEM AND DEVICE FOR VEHICLES

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NOTIFICACIÓN DE ACCIDENTES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2014068892 A1 20140508	DENSO CORP	PASSENGER MONITORING DEVICE
WO2014049352 A1 20140403	MASTernaut RISK SOLUTIONS LTD	VEHICLE INCIDENT DETECTION SYSTEM
WO2014047695 A2 20140403	KAZAMIAS CHRISTIAN CHRISTOS	"PERSONALIZED EMERGENCY, SAFETY & RULES BASED INTERACTIVE ALERT NOTIFICATION SYSTEM
WO2014065490 A1 20140501	SK PLANET CO LTD	SYSTEM AND METHOD FOR PROVIDING CONTENT ACCORDING TO DRIVING STATE OF VEHICLE
WO2014049187 A1 20140403	TOMAS MANUF	EMERGENCY WARNING METHOD FOR MOTOR VEHICLE USERS
WO2014050048 A1 20140403	PANASONIC CORP	RECEIVING DEVICE
WO2014047864 A1 20140403	HARMAN INT IND	VEHICLE MONITORING SYSTEM, SERVICE SYSTEM, AND METHODS THEREOF

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2014090505 A1 20140619	SIEMENS AG	METHOD FOR COMMUNICATION WITHIN AN, IN PARTICULAR WIRELESS, MOTOR VEHICLE COMMUNICATION SYSTEM INTERACTING IN AN AD-HOC MANNER, DEVICE FOR THE TRAFFIC INFRASTRUCTURE AND ROAD USER DEVICE
WO2014069287 A1 20140508	MITSUBISHI HEAVY IND LTD	BILLING PROCESSING SYSTEM, BILLING PROCESSING METHOD, BILLING PROCESSING DEVICE, PROGRAM, AND RECORDING MEDIUM
WO2014074544 A1 20140515	LUDICK WILFRED	INTRA-VEHICULAR MOBILE DEVICE MANAGEMENT
WO2014060786 A1 20140424	FREESCALE SEMICONDUCTOR INC	METHOD AND APPARATUS FOR REPORTING TRAFFIC INFORMATION
WO2014066562 A2 20140501	INTEL CORP	ROUTE OPTIMIZATION INCLUDING POINTS OF INTEREST
WO2014076986 A1 20140522	TOYOTA MOTOR CO LTD	DRIVE ASSIST SYSTEM
WO2014055405 A1 20140410	CUNNINGHAM THOMAS W	ELECTRONIC VEHICLE INFORMATION SYSTEM, ELECTRONIC LICENSE PLATES AND OTHER RELATED DEVICES AND METHODS
WO2014053653 A2 20140410	TOMTOM INT BV	METHODS AND APPARATUS FOR DISTRIBUTING DATA ASSOCIATED WITH OBJECTS IN DIGITAL MAP DATA
WO2014063400 A1 20140501	SHENZHEN MESADA TECHNOLOGY CO LTD	PARKING ANTITHEFT METHOD AND SYSTEM
WO2014080388 A2 20140530	ALSHDAIFAT WASFI ALMUHAIRBI EIDA KASSAB FARAH AFIF	POLICE DRONE
WO2014047487 A1 20140327	CLOUDCAR INC	COLLECTION AND USE OF CAPTURED VEHICLE DATA