

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
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<a href="#">WO2013038678 A1</a>	SANYO ELECTRIC CO [JP] et al.	WIRELESS DEVICE AND BASE STATION DEVICE
<a href="#">WO2013019135 A2</a>	ISTREETLIGHT DOO BEOGRAD [RS]	MULTISENSOR INTELLIGENT STREET LIGHT WITH COMPLETE SYSTEM
<a href="#">WO2013033560 A1</a>	METRO TECH NET INC [US] et al.	SYSTEM AND METHOD FOR DETERMINING ARTERIAL ROADWAY THROUGHPUT
<a href="#">WO2013023072 A1</a>	QUALCOMM INC [US] et al.	DYNAMIC ROAD MARKERS TO PROVIDE VISUAL FEEDBACK AS TO VEHICLE SPEED
<a href="#">WO2013021403 A2</a>	CAICO GIOVANNI [IT]	MODULAR ELECTRONICALLY AUTOMATED SYSTEM FOR SAFETY OF TRAFFIC ON THE URBAN AND EXTRA-URBAN ROAD NETWORKS
<a href="#">WO2013018656 A1</a>	NEC CORP [JP] et al.	TRAFFIC CONTROL SYSTEM, CONGESTION CONTROL METHOD, INFORMATION PROCESSING APPARATUS, AND CONTROL METHOD AND STORAGE MEDIUM THEREFOR
<a href="#">WO2013011379 A2</a>	KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY [SA], CLAUDEL CHRISTIAN [SA]	APPARATUS, SYSTEM, AND METHOD FOR ROADWAY MONITORING - (A3) APPARATUS, SYSTEM AND METHOD FOR MONITORING TRAFFIC AND ROADWAY WATER CONDITIONS
<a href="#">WO2013010215 A1</a>	LUKIN ZELJKO [AU] et al.	METHOD AND SYSTEM OF REDUCING ROAD TRAFFIC CONGESTION
<a href="#">WO2013022188 A2</a>	LEE HEUNG SOO [KR]	APPARATUS AND METHOD FOR CONTROLLING TRAFFIC SIGNALS USING IDENTIFICATION INFORMATION OF HIERARCHICAL STRUCTURE - (A3) APPARATUS AND METHOD FOR CONTROLLING TRAFFIC SIGNALS USING IDENTIFICATION INFORMATION HAVING HIERARCHICAL STRUCTURE
<a href="#">WO2013001307 A1</a>	ITIS HOLDINGS PLC [GB] et al.	METHOD AND SYSTEM FOR COLLECTING TRAFFIC DATA
<a href="#">WO2013003504 A2</a>	STC INC [US], CROSS BRAD [US]	SIGNAL LIGHT PRIORITY SYSTEM UTILIZING ESTIMATED TIME OF ARRIVAL
<a href="#">WO2013005912 A1</a>	KAONMEDIA CO LTD [KR] et al.	NAVIGATION SYSTEM USING CLOUD COMPUTING TECHNOLOGY, METHOD FOR MANAGING SAME, AND COMPUTER-READABLE RECORDING MEDIUM FOR RECORDING A PROGRAM FOR THE SYSTEM AND METHOD

[..ver más](#)

## REDES VEHICULARES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO2013032366 A2</a>	OBSHCHESTVO S OGRANICHENNOJ OTVETSTVENNOST YU TORGOVYJ DOM AVTOSHKOLA MAASH [RU], MAJBORODA OLEG VLADIMIROVICH [RU]	SYSTEM FOR MONITORING VEHICLE DRIVING PERFORMANCE
<a href="#">WO2013024587 A1</a>	SANYO ELECTRIC CO [JP] et al.	COMMUNICATION APPARATUS
<a href="#">WO2013034347 A2</a>	BOSCH GMBH ROBERT [DE] et al.	METHOD FOR RELIEVING THE STRAIN ON A DRIVER DURING MANAGEMENT OF A VEHICLE
<a href="#">WO2013005730 A1</a>	HITACHI AUTOMOTIVE SYSTEMS LTD [JP], MIYAKE JUNJI [JP]	IN-VEHICLE NETWORK SYSTEM
<a href="#">WO2012177347 A1</a>	TELCORDIA TECH INC [US] et al.	SWITCHED LINK-BASED VEHICULAR NETWORK ARCHITECTURE AND METHOD
<a href="#">WO2013014755 A1</a>	TOYOTA MOTOR CO LTD [JP], NEMOTO YUSUKE [JP]	VEHICLE-SPECIFYING SYSTEM AND VEHICLE- SPECIFYING DEVICE

[..ver más](#)

## GESTIÓN DE APARCAMIENTOS Y PEAJES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO2013043928 A2</a>	TELOGIS INC [US]	VEHICLE FLEET WORK ORDER MANAGEMENT SYSTEM
<a href="#">WO2013041197 A1</a>	VOLKSWAGEN AG [DE] et al.	METHOD FOR CLASSIFYING PARKING SCENARIOS FOR A SYSTEM FOR PARKING A MOTOR VEHICLE
<a href="#">WO2013037053 A1</a>	CANADIAN PARKING SYSTEMS & TECHNOLOGY INC [CA] et al.	SYSTEM AND METHOD FOR INTEGRATED MOBILE PARKING PAYMENTS
<a href="#">WO2013038198 A2</a>	SMART SHIP HOLDINGS LTD, SMART BILLY-JAY [MC]	ALLOCATING AN AREA TO A VEHICLE
<a href="#">WO2013031990 A1</a>	MITSUBISHI HEAVY IND LTD [JP] et al.	TOLL-COMPUTATION DEVICE, CONTROL METHOD, AND PROGRAM
<a href="#">WO2013033470 A2</a>	FRIAS TRANSPORTAION INFRASTRUCTURE LLC [US] et al.	SYSTEM AND METHOD FOR INDEPENDENT CONTROL OF FOR-HIRE VEHICLES
<a href="#">WO2013028916 A1</a>	POWERLEAP INC [US], REDMOND ELIZABETH [US]	FLOORING SYSTEM AND FLOOR TILE
<a href="#">WO2013035481 A1</a>	HITACHI AUTOMOTIVE SYSTEMS LTD [JP] et al.	CHARGING PLANNING SYSTEM, CHARGING PLANNING DEVICE, CHARGING PLANNING METHOD, AND PROGRAM
<a href="#">WO2013019273 A1</a>	GRINVALD ELIYAHU [US]	E-COMMERCE PLATFORM FOR EXTENDING THE USE OF PROPRIETARY TRANSPONDERS AND/OR TRANSPONDER ACCOUNTS
<a href="#">WO2013020875 A1</a>	BAYERISCHE MOTOREN WERKE AG [DE], SCHROEDER ASTRID [DE]	VEHICLE RENTAL SYSTEM
<a href="#">WO2013006549 A2</a>	UNIV BOSTON [US] et al.	METHOD AND SYSTEM FOR DYNAMIC PARKING ALLOCATION IN URBAN SETTINGS
<a href="#">WO2013001257 A1</a>	IER SYSTEMS [FR] et al.	METHOD, SYSTEM AND FACILITY FOR DETECTING THE FRAUDULENT USE OF A VEHICLE
<a href="#">WO2013001255 A1</a>	IER SYSTEMS [FR] et al.	METHOD AND SYSTEM FOR SECURING A RENTAL VEHICLE, AND SECURE VEHICLE
<a href="#">WO2013001254 A1</a>	IER SYSTEMS [FR] et al.	METHOD AND SYSTEM FOR CUSTOMIZING, ON THE FLY, A VEHICLE OFFERED FOR HIRE
<a href="#">WO2013001251 A1</a>	IER SYSTEMS [FR] et al.	METHOD AND SYSTEM FOR MANAGING A POWER-CHARGING SPACE FOR A VEHICLE, ESPECIALLY A SELF-SERVICE ELECTRICAL VEHICLE
<a href="#">WO2013006366 A2</a>	GEN ELECTRIC [US] et al.	SYSTEM AND METHOD FOR USE IN DELIVERING ENERGY TO AN ELECTRICALLY POWERED VEHICLE WITHIN A PARKING AREA
<a href="#">WO2013003524 A1</a>	MCGOWAN THOMAS B III [US]	A TOLLED ROADWAY AND METHOD FOR OPERATING A ROADWAY TOLLING SYSTEM
<a href="#">WO2013020580 A1</a>	FUNDACIO CT TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA [ES] et al.	METHOD AND SYSTEM FOR TOLL COLLECTION BASED ON A MOBILE CELLULAR NETWORK

[...ver más](#)

## NOTIFICACIÓN DE ACCIDENTES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO2013043668 A1</a>	GREEN WILLIAM BLEASE [US], THOMPSON CHRIS [US]	SYSTEM AND METHOD FOR AUTOMATIC TRAFFIC ACCIDENT DETERMINATION AND NOTIFICATION
<a href="#">WO2013032267 A1</a>	KMW INC [KR], KIM DUK YONG [KR]	STREET LAMP FOR PROVIDING SAFE DRIVING INFORMATION, AND SYSTEM FOR PROVIDING SAFE DRIVING INFORMATION USING STREET LAMP
<a href="#">WO2013028478 A1</a>	GPSI LLC [US] et al.	ENHANCED EMERGENCY SYSTEM USING A HAZARD LIGHT DEVICE
<a href="#">WO2013013140 A1</a>	AIRBIQUITY INC [US] et al.	WIRELESS EMERGENCY CALL (ECALL) DEVICES AND ECALL SERVICE SUBSCRIPTION MANAGEMENT
<a href="#">WO2013015922 A1</a>	UNITED PARCEL SERVICE INC [US]	SYSTEMS AND METHODS FOR ACCIDENT RECONSTRUCTION
<a href="#">WO2013031257 A1</a>	TOSHIBA KK [JP], KITAJIMA MOTOTAKA [JP]	EMERGENCY NOTIFICATION ASSISTANCE DEVICE AND ROAD
<a href="#">WO2013008299 A1</a>	TOYOTA MOTOR CO LTD [JP] et al.	VEHICLE EMERGENCY WITHDRAWAL DEVICE

[...ver más](#)

## OTRAS REFERENCIAS

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO2013035874 A1</a>	JVC KENWOOD CORP [JP], NAGATOMO HIDEYUKI [JP]	INFORMATION PROVISION DEVICE, INFORMATION PROVISION SYSTEM, AND INFORMATION PROVISION METHOD
<a href="#">WO2013035090 A1</a>	INTELLICON LTD [IL], PERI NATAN [IL]	TRAFFIC LIGHT SYSTEM AND METHOD
<a href="#">WO2013033686 A2</a>	PANELLI ALEXANDER FLAVIO [US]	METHOD AND APPARATUS FOR SOCIAL TELEMATICS
<a href="#">WO2013032895 A1</a>	CROWN EQUIPMENT LTD [NZ] et al.	METHOD AND APPARATUS FOR USING UNIQUE LANDMARKS TO LOCATE INDUSTRIAL VEHICLES AT START-UP
<a href="#">WO2013027112 A2</a>	TOYOTA MOTOR CO LTD [JP], OGAWA YUKI [JP]	DRIVING SUPPORT DEVICE AND DRIVING SUPPORT METHOD
<a href="#">WO2013027110 A2</a>	TOYOTA MOTOR CO LTD [JP], OGAWA YUKI [JP]	DRIVING SUPPORT DEVICE AND DRIVING SUPPORT METHOD
<a href="#">WO2013026047 A2</a>	TRANS UNION LLC [US] et al.	SYSTEMS AND METHODS FOR GENERATING VEHICLE INSURANCE PREMIUM QUOTES BASED ON A VEHICLE HISTORY
<a href="#">WO2013023061 A1</a>	IMS SOLUTIONS INC [US] et al.	VEHICLE MONITORING SYSTEM WITH AUTOMATIC DRIVER IDENTIFICATION
<a href="#">WO2013016581 A1</a>	MICHAEL JOSEPH [US]	SYSTEMS AND METHODS FOR MONITORING, MANAGING, AND FACILITATING TRANSACTIONS INVOLVING VEHICLES
<a href="#">WO2013006843 A1</a>	QUALCOMM INC [US] et al.	METHODS AND APPARATUS FOR FACILITATING CHANNEL ACCESS IN A COMMUNICATION SYSTEM
<a href="#">WO2013004379 A1</a>	AUDI NSU AUTO UNION AG [DE], REICH ANDREAS [DE]	METHOD FOR PROVIDING USER-SPECIFIC SETTINGS IN A MOTOR VEHICLE AND METHOD FOR DETERMINING AN ASSIGNMENT OF A MOBILE COMMUNICATIONS DEVICE TO A MOTOR VEHICLE FROM A PLURALITY OF MOTOR VEHICLES
<a href="#">WO2013001253 A1</a>	IER SYSTEMS [FR] et al.	METHOD FOR CHECKING THE USE OF THE FUNCTIONS OF A PROVIDED VEHICLE
<a href="#">WO2013003797 A1</a>	SMART PLATE INC [US] et al.	SYSTEM AND METHODS FOR RENDERING CONTENT ON A VEHICLE
<a href="#">WO2013004353 A1</a>	AUDI NSU AUTO UNION AG [DE], REICH ANDREAS [DE]	METHOD FOR PROVIDING ROAD DATA IN A MOTOR VEHICLE, AND GROUND-BASED DEVICE
<a href="#">WO2012174297 A2</a>	MICHAEL JOSEPH [US]	SYSTEMS AND METHODS FOR MONITORING AND MANAGING TRANSPORTATION INFRASTRUCTURE AND LOCATIONS OF VEHICLES THEREIN
<a href="#">WO2012173189 A1</a>	TOSHIBA KK [JP] et al.	INFORMATION INTEGRATION CONTROL SYSTEM AND INFORMATION PROCESSING PROGRAM, SOCIAL INFRASTRUCTURE OPERATING SYSTEM, OPERATING METHOD, LOCAL DEVICE, SERVER DEVICE, AND PROGRAM
<a href="#">WO2013015864 A1</a>	UNITED PARCEL SERVICE INC [US]	GEOFENCE-BASED TAX ESTIMATES
<a href="#">WO2013008996 A1</a>	SK PLANET CO LTD [KR] et al.	APPARATUS AND METHOD FOR A TELEMATICS SERVICE
<a href="#">WO2013002795 A1</a>	TELENAV INC [US] et al.	NAVIGATION SYSTEM WITH NOTIFICATION AND METHOD OF OPERATION THEREOF
<a href="#">WO2012172675 A1</a>	CLARION CO LTD [JP], KAWADA TAKEKAZU [JP]	NAVIGATION APPARATUS AND NAVIGATION METHOD