

Boletín VT

COCHE INTELIGENTE 33

1^{er} trimestre 2018

Vigilancia Tecnológica

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

NIPO: 088-17-023-0

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

WO 2018010872	BOSCH GMBH ROBERT	Method and device for controlling traffic in order to reduce air pollution
WO 2018064482	CUBIC CORP	Systems and methods for using autonomous vehicles in traffic
WO 2018013269	SIEMENS INDUSTRY INC	A connected vehicle traffic safety system and a method of warning drivers of a wrong-way travel
WO 2018035295	AMAZON TECH INC	Agv traffic management system
WO 2018044616	HERE GLOBAL BV	Wireless network optimization
WO 2017222437	ERICSSON TELEFON AB L M (PUBL)	Methods identifying vehicles and related systems, controllers, and vehicles
WO 2018010083	HUAWEI TECH CO LTD	Vehicle external communication method, device and terminal
WO 2018030772	CHUNG ANG UNIV INDUSTRY ACADEMIC COOPERATION FOUNDATION	Responsive traffic signal control method and apparatus therefor
WO 2017218159	QUALCOMM INC	Methods and systems for context based anomaly monito

[..ver más](#)

REDES VEHICULARES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2018054700	BAYERISCHE MOTOREN WERKE AG	Automatic autonomous driving of a vehicle
WO 2018058572	HUAWEI TECH CO LTD	Method and apparatus for determining time-frequency resource
WO 2018058375	HUAWEI TECH CO LTD	Communication method and terminal
WO 2018064430	T MOBILE USA INC	Remote vehicle engine immobilization
WO 2018062969	SAMSUNG ELECTRONICS CO LTD	Method and device of power control
WO 2018060250	DEUTSCHE TELEKOM AG	Method and system for protecting an on-board communication network of a motor vehicle
WO 2018031169	QUALCOMM INC	Autonomous resource selection for vehicle-to-vehicle communications
WO 2018058470	HUAWEI TECH CO LTD	Data transmission method and terminal device therefor
WO 2018065989	ALLSTATE SOLUTIONS PRIVATE LTD	Mobile device communication access and hands-free device activation
-WO 2018058418	PANASONIC IP CORP AMERICA	Wireless communication method, apparatus and system
WO 2018063427	BAIDU USA LLC	A sideslip compensated control method for autonomous vehicles
WO 2017211482	BOSCH GMBH ROBERT	Method, device and system for detecting wrong-way drivers
WO 2018000386	HUAWEI TECH CO LTD	Method for controlling vehicle platoon driving, centralized control device, and vehicle
WO 2018046325	CONTINENTAL AUTOMOTIVE GMBH	Testing apparatus and method for checking a behaviour of a network complex comprising controllers of a motor vehicle in the event of erroneous and/or manipulated network data traffic
WO 2018006989	WABCO GMBH	System and method for transferring data from a wireless network of a vehicle
WO 2018050121	ZTE CORP	Vehicle-to-everything operation processing method, device and vehicle-to-everything system
WO 2018052415	FORD MOTOR CO	Autonomous vehicle fueling with centralized scheduling
WO 2018036609	TELEFONAKTIEBOLAG ET LM ERICSSON PUBL	Traffic control of a vehicle control device
WO 2018002892	OCTO TELEMATICS S P A	System and method for balancing processing of sensor-based data and signals in a vehicle
WO 2018046187	BOSCH GMBH ROBERT	Concept for sensing the environment of a motor vehicle
WO 2018002825	OCTO TELEMATICS S P A	Systems and methods for controlling sensor-based data acquisition and signal processing in vehicles
WO 2018020604	MICO LATTA INC	Vehicle-mounted device, automobile, information providing system, vehicle-mounted device program, and automobile program

WO 2018046251	BOSCH GMBH ROBERT	Concept for sensing the environment of a motor vehicle
WO 2018031526	INTEL CORP	Selective packet re-transmission in a vehicle-to-vehicle (v2v) communication system
WO 2018009186	FORD GLOBAL TECH LLC	Information sharing and user experience enhancement by context-aware vehicles
WO 2018028627	HUAWEI TECH CO LTD	Apparatus, computer program, and method for supporting vehicle-to-vehicle communication utilizing a base station
WO 2018009391	WAYMO LLC	Testing predictions for autonomous vehicles
WO 2018030868	SAMSUNG ELECTRONICS CO LTD	V2x communication method and terminal
WO 2018016934	ROSALES GALVÁN LUIS ERNESTO	Vehicle communication system with an internal network for reading and sharing relevant data in a user network
WO 2018039043	SHAW THOMAS J	Vehicle guidance and control system
WO 2018017075	FORD GLOBAL TECH LLC	Crowd-sourced emergency response
WO 2018008943	SAMSUNG ELECTRONICS CO LTD	Method and device for managing security according to service in wireless communication system
WO 2017218585	SURROUND IO CORP	Method and system for providing auto space management using virtuous cycle
WO 2018005011	MCAFEE INC	Drone assisted mesh network for first responders

[..ver más](#)

GESTIÓN DE APARCAMIENTOS Y PEAJES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2018033281	BOSCH GMBH ROBERT	Method for recognizing the freeing of a parking space
WO 2017215841	BOSCH GMBH ROBERT	Concept for controlling traffic in a car park
WO 2017216628	ACCENTURE GLOBAL SOLUTIONS LTD	Datamodel tuning for scarce resource evaluation
WO 2018007054	BOSCH GMBH ROBERT	Determining laterally positioned parking spaces
WO 2018025066	SULTAN FAWAZ	Parked car locator using qr codes
WO 2018064142	THE PARKING GENIUS INC D/B/A PARKHUB	System for managing parking of autonomous driving vehicles
WO 2018062903	JAEOYOUNG BIZ CO LTD	lot-based residential parking permit zone management system and method therefor
WO 2017222735	INTEL CORP	Systems and methods for intelligent vehicle speed determination
WO 2017216002	AUDI AG	Motor vehicle with a communication device
WO 2018042307	PICKMEUP NV	Method and system for the payment of a service and/or a product with respect to a vehicle location
WO 2018060468	TOMTOM TRAFFIC BV	Methods and systems for generating parking related data
WO 2018004542	FORD GLOBAL TECH LLC	Methods and apparatus to relocate vehicles based on vehicle and environmental characteristics
WO 2018002087	BOSCH GMBH ROBERT	Rss-based parking detection system and method thereof
WO 2018004823	INTEL CORP	Arbitrary base value for epid calculation
WO 2018045309	NELSON ANTHONY	Application, device and system for toll collection
WO 2018043906	LG ELECTRONICS INC	Parking prevention device, mobile terminal, and parking prevention system having same
WO 2018047222	NISSAN MOTOR RENAULT SAS	Dispatch support method and device
WO 2018035629	CAO HONGPENG	Payment subsystem for on-line parking lot management system
WO 2018017140	LAVELLE ALEXANDER LOOP BRYCE	Parking detection and guidance system
WO 2018030799	SAMSUNG ELECTRONICS CO LTD	Method for providing parking location information of vehicle and electronic device thereof
WO 2018013539	VISA INT SERVICE ASS	Electronic system hardware for secure payments for vehicles

[...ver más](#)

NOTIFICACIÓN DE ACCIDENTES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2018002894	OCTO TELEMATICS S P A	A computer system for dynamic vehicle insurance billing
WO 2018064267	ALLSTATE INSURANCE CO	Controlling autonomous vehicles to provide automated emergency response functions
WO 2018002406	ONTECH SECURITY SL	Device, system and method for detecting emergencies in public facilities, building, vehicles and transport networks
WO 2018016663	CHOI KWANGJOO	Vehicle to pedestrian (v2p) collision prevention system and method therefor
WO 2018056981	FORD GLOBAL TECH LLC	Solar-powered, virtual-reality windshield
WO 2018046106	TELEFONAKTIEBOLAG ET LM ERICSSON PUBL	Methods, apparatus and computer-readable mediums for notification of vehicular accidents
WO 2018065325	BAYERISCHE MOTOREN WERKE AG	Determination of identifying characteristics of an accident participant in the event of an accident involving the accident participant and a motor vehicle
WO 2018021191	MITSUBISHI HEAVY IND LTD	Danger notification device, danger notification system, danger notification method, and program
WO 2018057497	ALLSTATE INSURANCE CO	Enhanced image capture and analysis of damaged tangible objects
WO 2018052714	NEC LAB AMERICA INC	Video to radar
WO 2018052461	INTEL CORP	Vehicle broadcasting resources and transmission
WO 2017214990	HUAWEI TECH CO LTD	Method and device for processing accident information
WO 2018008847	SUNTECH INT LTD	Anti-jamming location tracking terminal and anti-jamming method using same
WO 2018029901	PANASONIC IP MAN CO LTD	Automobile insurance company business assisting system
WO 2017211136	ZTE CORP	Smart traffic management method and system, and computer storage medium
WO 2017212750	MAZDA MOTOR	Emergency report device
WO 2018048556	INTEL IP CORP	Emergency response for iot and/or m2m devices
WO 2018009578	CALAMP CORP	Systems and methods for crash determination
WO 2018033882	TVS MOTOR CO LTD	Safety system for a two-wheeler
WO 2018002894	OCTO TELEMATICS S P A	A computer system for dynamic vehicle insurance billing

[...ver más](#)

OTRAS REFERENCIAS

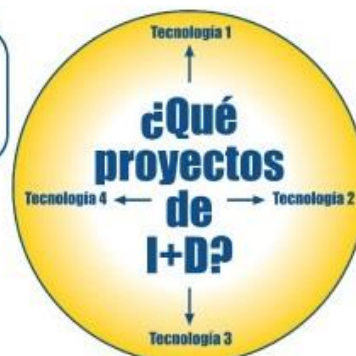
Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2018024807	BRAGI GMBH	Vehicle request using wearable earpiece
WO 2018006963	VOLVO TRUCK CORP	A driver assistance system
WO 2018017818	CARRIER CORP	Cold chain transportation route modeling system
WO 2018028458	ZTE CORP	Internet of vehicles service configuration method and device, and method, device and system for service acquisition
WO 2018047254	MITSUBISHI HEAVY IND MACHINERY SYSTEMS LTD	Travel distance calculation device, billing system, travel distance calculation method, program, and storage medium
WO 2018044578	LOCUS SOLUTIONS LLC	Systems and methods for monitoring vibrations during transportation of goods
WO 2017222923	PLATFORM SCIENCE INC	Secure wireless networks for vehicles

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Los ITPs** de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



LANZAMIENTO



Los ITPs** de la OEPM nos han ahorrado horas de revisión bibliográfica para definir el punto de partida de nuestros proyectos de I+D.



EJECUCIÓN



Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



CONCLUSIÓN



Gracias a los ITPs** de la OEPM hemos podido decidir la mejor forma de protección de nuestros resultados de I+D y redactar adecuadamente nuestras solicitudes de patente.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.