

Boletín VT

COCHE INTELIGENTE

4º trimestre 2022

52

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 abordo 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: 116-19-010-1



Oficina Española de Patentes y Marcas, O.A.
Unidad de Información Tecnológica
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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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WO 2022201380 A1	NEC CORP	Signal control system, signal control method, and program record medium
WO 2022215493 A1	FURUKAWA ELECTRIC CO LTD	Communication system, server device, program, and communication method
WO 2022202744 A1	ISUZU MOTORS LTD	Platooning assistance device, platooning assistance method, and program
WO 2022209200 A1	SUMITOMO ELECTRIC INDUSTRIES	Roadside relay device, traffic management system, and log collection method
WO 2022209353 A1	NEC CORP	Traffic monitoring device, traffic monitoring system, traffic monitoring method, and recording medium
WO 2022224445 A1	NEC CORP	Traffic flow monitoring device, traffic flow monitoring method, and recording medium
WO 2022219610 A1	WEJO LTD	Producing vehicle data products from streamed vehicle data based on dual consents
WO 2022203593 A1	GRABTAXI HOLDINGS PTE LTD	System and method for predicting road traffic speed
WO 2022260753 A1	QUALCOMM INC	Positioning using traffic control
WO 2022239241 A1	NEC CORP	Traffic control device, system, method, and computer-readable medium
WO 2022251225 A1	CAMBRIDGE MOBILE TELEMATICS INC	Method and system for vehicle route determination based on motion data
WO 2022232813 A1	HAYDEN AI TECH INC	Systems and methods for enforcing traffic congestion pricing
WO 2022259862 A1	SUMITOMO ELECTRIC INDUSTRIES	In-vehicle device, control device, system, method of controlling in-vehicle device, and computer program
WO 2022240215 A2	SON SEUNG HEE	Traffic signal control device

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REDES VEHICULARES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022213723 A1	ZTE CORP	Communication method, vehicle-to-everything platform, on-board unit and storage medium
WO 2022209946 A1	AUTONETWORKS TECHNOLOGIES LTD	Vehicle-mounted relay device, vehicle-mounted communication system, and communication control method
WO 2022264953 A1	DENSO CORP	V2x communication apparatus and its dcc operation method
WO 2022239319 A1	SONY GROUP CORP	Communication device, communication method, and vehicle
WO 2022239582 A1	SUMITOMO ELECTRIC INDUSTRIES	Relay device, relay method, and computer program
WO 2022230423 A1	AUTONETWORKS TECHNOLOGIES LTD	Onboard device, information processing method, and program
WO 2022234263 A1	ALCHERA DATA TECH LTD	Infrastructure sensor processing
WO 2022230492 A1	AUTONETWORKS TECHNOLOGIES LTD	Vehicle-mounted relay device, relay method, and relay program
WO 2022230496 A1	AUTONETWORKS TECHNOLOGIES LTD	Vehicle-mounted communication system, relay device, and relay method
WO 2022228643 A1	HUAWEI TECH CO LTD	In-vehicle network for context aware real-time traffic specific network configuration
WO 2022256793 A1	REPARIFY INC	Remote vehicle communications filtering
WO 2022230434 A1	AUTONETWORKS TECHNOLOGIES LTD	Vehicle-mounted device, information processing method and program
WO 2022235973 A1	INTEL CORP	Misbehavior detection using data consistency checks for collective perception messages
WO 2022245916 A1	PONY AI INC	Device health code broadcasting on mixed vehicle communication networks

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GESTIÓN DE APARCAMIENTOS Y PEAJES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2022199663 A1	HUAWEI TECH CO LTD	Road toll collection method and apparatus
WO 2022201722 A1	PANASONIC IP MAN CO LTD	Information display program, information display device, and information display method
WO 2022201892 A1	SONY GROUP CORP	Information processing apparatus, information processing method, and program
WO 2022196136 A1	NEC CORP	Parking lot management device, parking lot management method, and non-transitory computer-readable medium
WO 2022201295 A1	NEC CORP	Parking management device, parking management system, parking management method, and non-transitory computer-readable medium
WO 2022208639 A1	NEC CORP	Parking lot guidance device, system, method, and computer-readable medium
WO 2022208775 A1	NEC CORP	Information providing device, system, method and computer readable medium
WO 2022207324 A1	MERCEDES BENZ GROUP AG	Method for providing context-dependent information about and/or paying for road sections subject to a toll, and system
WO 2022203079 A1	PANASONIC IP MAN CO LTD	Control method, program, information processing device, and information provision method
WO 2022208589 A1	MITSUBISHI HEAVY IND MACH SYSTEMS LTD	Vehicle-mounted device, information processing system, control method, and program
WO 2022201358 A1	NEC CORP	Parking management device, parking management system, parking management method, and non-transitory computer-readable medium
WO 2022256397 A1	WAVESENSE INC	Vehicle identification using surface-penetrating radar
WO 2022219614 A1	WEJO LTD	System and method for vehicle event data processing for identifying and updating parking areas
WO 2022254360 A1	SHAREP AG	System and method for managing parking of vehicles
WO 2022233670 A1	MERCEDES BENZ GROUP AG	Toll system and method for implementing a payment process for travelling on a chargeable route segment with a vehicle
WO 2022224687 A1	IHI TRANSPORT MACHINERY CO LTD	Parking area control device and entry/exit method for autonomous vehicle
WO 2022247499 A1	HUAWEI TECH CO LTD	Parking space guiding method, electronic device and readable storage medium
WO 2022223083 A1	CONTINENTAL AUTONOMOUS MOBILITY GERMANY GMBH	Method and system for optimising a detected parking space
WO 2022238994 A1	GANOT ZVI	Multi-space parking detection units and method of use
WO 2022258387 A1	VALEO SCHALTER & SENSOREN GMBH	Portable parking assistance system, method and computer program product
WO 2022255691 A1	LIGHTVISION CORP	Method and system for providing parking service

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NOTIFICACIÓN DE ACCIDENTES

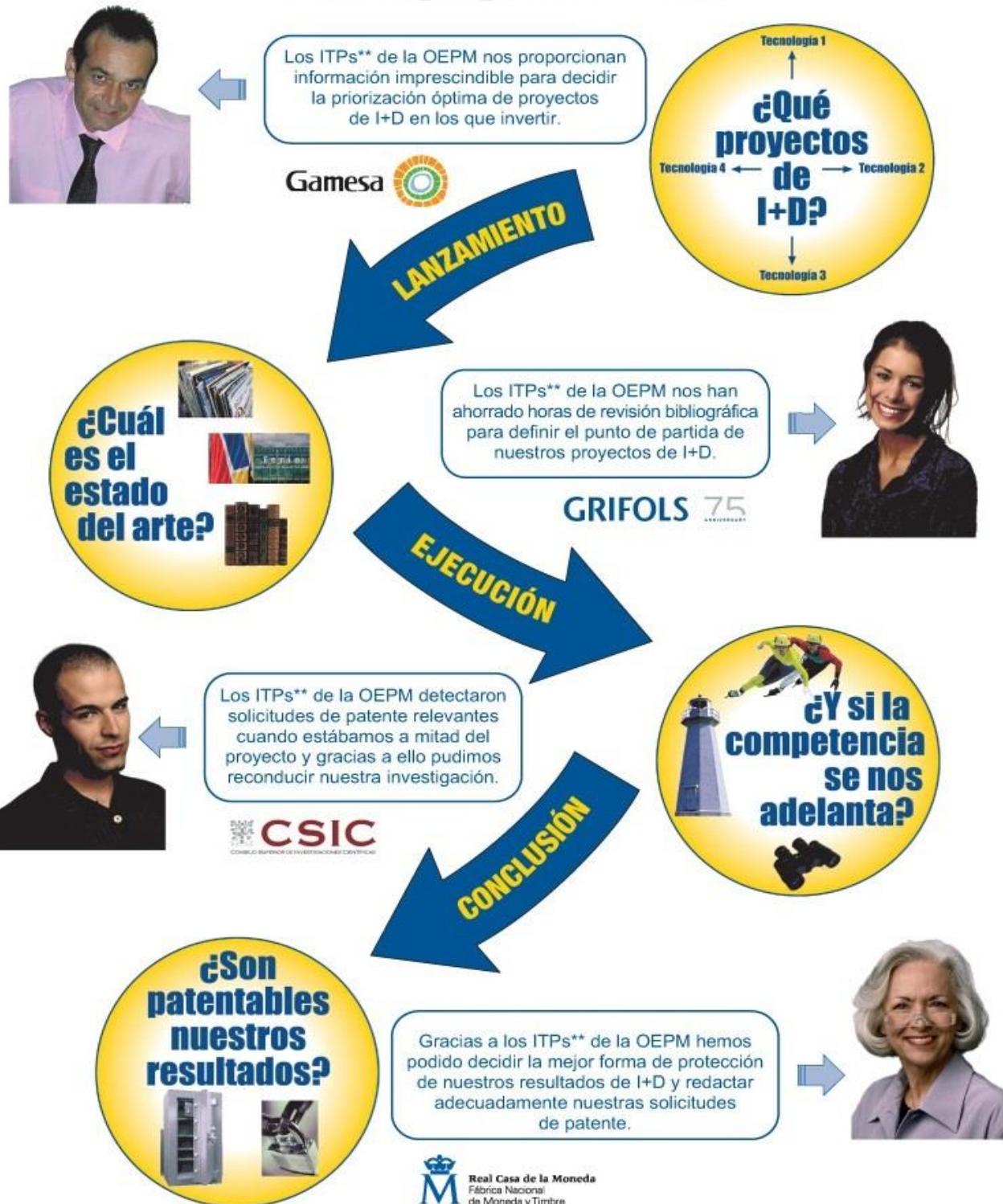
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022207677 A1	VOLKSWAGEN AG	Method for determining a future accident severity of a motor vehicle with an object by means of an assistance system of the motor vehicle, computer program product, and assistance system
WO 2022232718 A1	QUALCOMM INC	Subscription switching for vehicle emergency calls based on a predicted probability of an accident
WO 2022265861 A1	MOTIVE TECH INC	Distracted driving detection using a multi-task training process
WO 2022233594 A1	CONTINENTAL AUTOMOTIVE TECH GMBH	Method, device and system for transmitting confidential data between vehicles
WO 2022242921 A1	BAYERISCHE MOTOREN WERKE AG	Method, apparatus, computer programme, and computer-readable storage medium for determining defective vehicles

[...ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022215534 A1	AISIN CORP	Parking assistance device
WO 2022205356 A1	SZ DJI TECHNOLOGY CO LTD	Automatic parking method, electronic device and computer-readable storage medium
WO 2022238760 A1	NIO TECH ANHUI HO LTD	Combined computer vision and human vision camera system
WO 2022219103 A1	NAT ELECTRIC VEHICLE SWEDEN AB	Method for emergency steering and emergency steering system
WO 2022248086 A1	BAYERISCHE MOTOREN WERKE AG	Method and device for operating a head-up display system
WO 2022258957 A1	CELLXION LTD	Identification based on a location of a mobile communications device
WO 2022221701 A1	UNIV ARIZONA	Convolutional neural networks for pavement roughness assessment using calibration-free vehicle dynamics
WO 2022226798 A1	HUAWEI TECH CO LTD	Automatic parking method, apparatus and system
WO 2022250646 A1	DRIVING MAN SYSTEMS INC	Mobile device distraction management
WO 2022251990 A1	HUAWEI TECH CO LTD	Lighting system control method, lighting system and vehicle
WO 2022232875 A1	SEEING MACHINES LTD	Systems and methods for detection of mobile device use by a vehicle driver

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