

Boletín VT

REDES DE SENSORES INALÁMBRICAS

22

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Vigilancia Tecnológica

Desde su aparición, los campos de aplicación de las redes de sensores inalámbricos se han ido ampliando de forma constante. La posibilidad de crear extensas plataformas de gestión integrada para la monitorización, captura de datos, y control remoto y en tiempo real mediante estas redes sensoriales, ha proporcionado una poderosa herramienta para el desarrollo de aplicaciones y servicios en sectores económicos tan diversos como el agrícola, el industrial o el de la administración pública.

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 algunas de las aplicaciones más relevantes abordadas por las redes de sensores

inalámbricas, tales como: su uso en entornos agrícolas (gestión de cultivos, plagas, invernaderos, regadíos), su uso en entornos urbanos o públicos (seguridad ciudadana, infraestructuras, gestión de información medioambiental, polución, residuos) o su uso para la detección y gestión de incendios.

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:

- Redes de sensores para entornos agrícolas
- Redes de sensores para entornos urbanos o públicos
- Redes de sensores para detectar incendios
- Otras referencias

NIPO: 073-15-019-2

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.

REDES DE SENSORES PARA ENTORNOS AGRÍCOLAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2015048499	ACHESON JOHN EARL	Yield monitor calibration method and system
WO 2015084147	MIMOS BERHAD	A method for monitoring anthesis of an inflorescence and a system for implementing the same
WO 2015044316	FRAUNHOFER GES ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E V	Device and method for obtaining information about one or more living beings
WO 2015041548	GRAVITY LTD	Animal monitor
WO 2015038751	AGCO CORP	Method to automatically estimate and classify spatial data for use on real time maps
WO 2015063717	SOIL SCOUT OY	Emission power controlled radio signal emitting node
WO 2015083176	ISRAEL STATE	Method and system for monitoring food intake of livestock animals
WO 2015052358	UNIV SEVILLA	Automatic system for detecting and identifying ripening stages of the habanero chilli and similar fruits
WO 2015070255	TRACKBLUE LLC	Wireless moisture sensing device, system, and related methods
WO 2015050464	UNIV MASSEY	In-situ optical density sensor
WO 2015058273	ASSY JOSÉ ROBERTO DO AMARAL	Method and device for avoiding seed-metering errors in planters
WO 2015061880	WILGER WILFRED H	Sprayer nozzle system for variable application rates
WO 2015071706	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	Optical analyzer, optical analyzing method and sample preparation device
WO 2015042181	SUPRASENSOR TECHNOLOGIES LLC	Molecular receptor-based chemical field-effect transistor (chemfet) devices, systems, and methods for in-situ nitrate monitoring in field soils
WO 2015056035	DEÁKDELTA KFT	Opto-electronic device for detecting small insects
WO 2015065206	PASTORAL ROBOTICS LTD	Apparatus and methods for excreta detection and treatment
WO 2015064780	DREAM C & G CO LTD	Intelligent unmanned robotic weeder

[...ver más](#)

REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2015025235	KONINKL PHILIPS NV	Control of a lighting system
WO 2015040058	AGT INTERNAT GMBH	Sensor and data fusion
WO 2015067625	KONINKL PHILIPS NV	Battery module, battery pack, and system comprising a battery module
WO 2015086671	THORN EUROPHANE S A	Communication system for urban sensors
WO 2015028921	KONINKL PHILIPS NV	Sensor network with adaptive detection settings based on the status information from neighboring luminaries and/or connected devices
WO 2015052730	KARIGUDDAIAH AJITH	An energy management system and method in buildings
WO 2015063373	HUOVINEN HARRI	Flood alarm assembly
WO 2015051058	NEC LAB AMERICA INC	Optimal sensor and actuator deployment for system design and control
WO 2015051207	WESTERNGECO LLC	Seismic survey using an augmented reality device
WO 2015054611	DIGITAL LUMENS INC	Methods, systems, and apparatus for intelligent lighting
WO 2015066387	S1 TECHNOLOGIES INC	System and method for determining volume of fluid in a tank

[...ver más](#)

REDES DE SENSORES PARA DETECTAR INCENDIOS

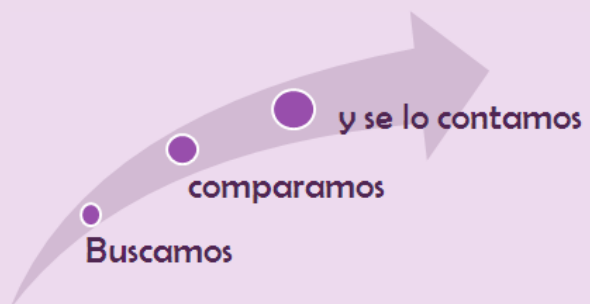
Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2015074795	BOSCH GMBH ROBERT	Simplified field device exchange in a processing device
WO 2015042002	MICROCHIP TECH INC	A smoke detector with enhanced audio and communications capabilities
WO 2015071606	FINSECUR	Method and device for deploying a link between at least one security system and an alarm centre
WO 2015069420	UTC FIRE AND SECURITY AMERICAS CORP INC	Security panel with virtual sensors
WO 2015041577	ERICSSON TELEFON AB L M	Methods, apparatuses, and computer program products for configuring and collecting information from sleepy devices
WO 2015042006	MICROCHIP TECH INC	Smoke detectors with wireless local area network capabilities
WO 2015044789	FIBAR GROUP SP Z O O	Intelligent smoke sensor
WO 2015044784	FIBAR GROUP SP Z O O	Touch-less swipe control
WO 2015065258	ERICSSON TELEFON AB L M	Managing radio traffic load
WO 2015054272	GOOGLE INC	Automated crowdsourced power outage identification and staggering of hvac system restarts
WO 2015053793	DRAEGER SAFETY INC	Integrated continuous gas monitoring with triggered specific measurement
WO 2015065390	DRAEGER SAFETY INC	Drive system for gas detection system
WO 2015065202	BILFINGER IND NORGE AS	Shut down system, a habitat system and a method for establishing the habitat system
WO 2015053794	DRAEGER SAFETY INC	Remote sampling bypass for a gas analyser
WO 2015054241	GOOGLE INC	Visual and auditory user notification methods for smart-home hazard detector

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2015079202	BRITISH TELECOMM	Wireless management
WO 2015082383	SIEMENS AG	Method for determining a position of at least two sensors, and sensor network
WO 2015083506	MITSUBISHI ELECTRIC CORP	Method for transmitting packets in wireless network including node, method for transmitting packets in low power and lossy network, and node for forming wireless network
WO 2015089019	ION GEOPHYSICAL CORP	Obstruction overlay cable
WO 2015089064	ION GEOPHYSICAL CORP	Seismic data acquisition with varying relative distance between multiple seismic vessels
WO 2015042149	CISCO TECH INC	Dominating set identification for path computation based on directed acyclic graph membership
WO 2015046695	BIT & PULSE CO LTD	Broadband modem based multi-sensor device control system for machine-to-machine communication and internet of things
WO 2015076674	PUIJENBROEK HOLDING B V VAN	Css localization system
WO 2015075278	SENSIRION AG	Determination of fluid parameters
WO 2015071654	PASSIVSYSTEMS LTD	Improvements in and relating to temperature controlled systems
WO 2015081480	LUTUO TECHNOLOGY CO	Room occupancy state sensing method and room occupancy state sensing apparatus
WO 2015055244	STATOIL PETROLEUM AS	Noise surveillance system
WO 2015080552	MIMOS BERHAD	Mutual authentication method for use in a wireless sensor network
WO 2015081278	AMSTED RAIL CO INC	Train and rail yard management system
WO 2015076690	SIEMENS AG	Method and apparatus for distributed condition monitoring over combination of techniques
WO 2015077940	HUAWEI TECH CO LTD	Sink node routing method and node device
WO 2015081303	DOUBLE BLUE SPORTS ANALYTICS INC	Automated video tagging with aggregated performance metrics
WO 2015054002	SENSORMATIC ELECTRONICS LLC	Method and system for adjusting performance of video camera for thermal control
WO 2015061642	NAT L AERONAUTICS & SPACE ADM	Multi-layer wireless sensor construct for use at electrically-conductive material surfaces
WO 2015061022	PURDE RES FOUNDATION	Debugging non-deterministic embedded systems
WO 2015072433	ALPS ELECTRIC CO LTD	Wireless sensor system
WO 2015054784	1835963 ALBERTA LTD	Sensing element compositions and sensor system for detecting and monitoring structures for hydrocarbons
WO 2015057849	UNIV MARQUETTE	Passive wireless sensor
WO 2015073702	CES GROUP LLC	Predictive monitoring and control of an environment using cfd
WO 2015057264	PASSPORT SYSTEMS INC	Injection of simulated sources in a system of networked sensors
WO 2015072022	FUJITSU LTD	System, communication node, and determination method
WO 2015069232	SCHNEIDER ELECTRIC IT CORP	Intelligent sensor network in a load center
WO 2015072023	FUJITSU LTD	System, communication node, and switching method
WO 2015051857	HUAWEI TECH. DUESSELDORF GMBH	Random access resources for groups of m2m devices
WO 2015065873	UNIV MASSACHUSETTS	Structural health monitoring of wind turbine blades using wireless acoustic sensing



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